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CANADA  
DOMINION BUREAU OF STATISTICS  
GENERAL STATISTICS BRANCH

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# THE CANADA YEAR BOOK 1934-35

THE OFFICIAL STATISTICAL ANNUAL OF THE RESOURCES,  
HISTORY, INSTITUTIONS AND SOCIAL AND ECONOMIC  
CONDITIONS OF THE DOMINION

Published by Authority of  
The Honourable R. B. HANSON, K.C., M.P.,  
MINISTER OF TRADE AND COMMERCE



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## PREFACE.

The Canada Year Book had its beginning in the first year of the Dominion, when the "Year Book and Almanac of British North America"—being (to quote its sub-title) "an Annual Register of political, vital and trade statistics, customs tariffs, excise and stamp duties, and all public events of interest in Upper and Lower Canada, New Brunswick, Nova Scotia, Prince Edward Island, Newfoundland, and West Indies"—was founded. Subsequently the title was changed to "The Year Book and Almanac of Canada,—an annual statistical abstract of the Dominion and a register of legislation and of public men in British North America". It was published annually from 1867 to 1879.

In 1886, after the passing of a general Statistics Act, the "Statistical Abstract and Record of Canada" was instituted as an official book of reference respecting the institutions, population, finance, trade and general conditions of the Dominion, "with comparative data for the United Kingdom, British Possessions and foreign countries". The work was prepared in the General Statistical Office of the Department of Agriculture, and was continued annually until 1904, under the direction of Dr. George Johnson, F.S.S. In 1905 the General Statistical Office was amalgamated with the Census Office (which was at the same time made a permanent organization), and the Year Book was remodelled by Dr. Archibald Blue, Chief Officer, and continued under the title "The Canada Year Book, Second Series".

In the reorganization and centralization of statistics which followed the report of the Royal Commission on Statistics of 1912, and the establishment of the Dominion Bureau of Statistics in 1918, the improvement of the Year Book, both in content and method of presentation, was made a primary object, and this progress has been continued down to the present time.

A prominent feature in past editions of the Year Book has been the inclusion from time to time of special articles dealing with some important phase of Canadian social, economic, intellectual or artistic life in considerable detail, but the pressure on the space of the present volume owing to the necessity of covering two years has prevented the inclusion of any special articles in this edition, although a list of special articles appearing in past editions is given on page vi of this Introduction immediately preceding the map.

Attention may be called to certain novel features of the present volume. There is included in Chapter I a brief description of Standard Time and Time Zones in Canada, which is of special interest to those who travel either in the flesh or by radio. There will also be found in Chapter III a discussion of the Representation Act of 1933 and a special table at page 82 showing the population of each of the new electoral districts which will return representatives to Parliament at the approaching general election. Probably the most extended presentation of the results of the Census of 1931 that will appear in the Year Book is to be found in Chapter IV, where Religions (Section 6) are cross-analysed by racial origin for the first time, and several new classifications are added to Section 7 dealing with Birth-places; the chapter closes with statistics of the areas and populations of countries of the British Empire for the years 1911, 1921 and 1931 and of the countries of the world for 1931. The Mines and Minerals Chapter, together with the discussion of the new discoveries in economic geology in Chapter I, will be of interest to those who are concerned with this rapidly-growing branch of our economic life. Again, attention may be directed to the improvement of the introduction to the External

Trade Chapter as well as to the final statistics of the Census of Distribution and Services of 1930, to which has been added a more summary treatment of retail trade based upon a 65 to 70 p.c. sample of all retail trade and covering the years 1931 to 1933. In the Labour and Wages Chapter may be noted the inclusion of tables showing both the occupational and the industrial distribution of the gainfully occupied population of the Dominion as in 1931. In the Public Finance Chapter appears, for the first time, a comparative analysis of provincial revenues, expenditures, assets and liabilities on the basis agreed upon at the Dominion-Provincial Conference of 1933; additional material regarding national income is also included in this chapter. The Currency and Banking Chapter includes a description of the new Bank of Canada and a classification of bank loans by industries and of deposits by amounts. Lastly, in the Miscellaneous Administration Chapter there appears a study of liquor control, liquor sales and revenues arising therefrom.

Throughout the volume tables and text alike have been revised so as to include the latest possible information appearing to the date of going to press. The Appendices include information on Immigration and Trade in the fiscal year 1934-35. All parts of the volume have been subjected to careful revision by the most competent authorities in each branch of our national activities.

The present volume has been edited by S. A. Cudmore, B.A. (Tor.), M.A. (Oxon.), F.S.S., F.R. Econ. Soc., assisted by A. E. Millward, B.A., B. Com., W. H. Lanceley, and R. F. Clarke, M.C., D.L.S., of the editorial staff of the General Statistics Branch of the Bureau. Grateful acknowledgments are hereby tendered to the numerous officials of the Dominion and Provincial Governments who have assisted in the collection of information. An effort has been made to apportion due credit to the various individuals and services concerned by means of footnotes to those chapters and sections which have been contributed, or in the compilation of which co-operation has been received.

While the greatest care has been taken in the preparation of the volume, there are doubtless imperfections and, with a view to the improvement of future editions, the Editor will be glad to hear of any errors which may have escaped his notice, and to receive any suggestions with regard to omissions or to method of treatment.

DOMINION BUREAU OF STATISTICS,  
OTTAWA, June 4, 1935.

R. H. COATS,  
Dominion Statistician.



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# DOMINION OF CANADA

(Exclusive of Northern Regions)

Scale of Miles  
0 100 200 300 400 500



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Dept. of the Interior



# SYNOPSIS.

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**THE  
STATISTICAL SUMMARY  
OF THE  
PROGRESS OF CANADA**

**1871-1934.**

# STATISTICAL SUMMARY OF THE PROGRESS OF CANADA.

Area of the Dominion of Canada in square miles: Land, 3,466,793; Fresh Water, 228,070; Total, 3,694,863.

| Item.                              |                                                          | 1871.       | 1881.       | 1891.               | 1901.       | 1906.                    |
|------------------------------------|----------------------------------------------------------|-------------|-------------|---------------------|-------------|--------------------------|
| <b>Population<sup>1</sup>—</b>     |                                                          |             |             |                     |             |                          |
| 1                                  | Prince Edward Island..... No.                            | 94,021      | 108,891     | 109,078             | 103,259     | 98,222                   |
| 2                                  | Nova Scotia..... "                                       | 387,800     | 440,572     | 450,396             | 459,574     | 476,119                  |
| 3                                  | New Brunswick..... "                                     | 285,594     | 321,233     | 321,263             | 331,120     | 341,682                  |
| 4                                  | Quebec..... "                                            | 1,191,516   | 1,359,027   | 1,488,535           | 1,648,898   | 1,822,992                |
| 5                                  | Ontario..... "                                           | 1,620,851   | 1,926,922   | 2,114,321           | 2,182,947   | 2,352,470                |
| 6                                  | Manitoba..... "                                          | 25,228      | 62,260      | 152,506             | 255,211     | 365,688                  |
| 7                                  | Saskatchewan..... "                                      | —           | —           | —                   | 91,279      | 257,763                  |
| 8                                  | Alberta..... "                                           | —           | —           | —                   | 73,022      | 185,412                  |
| 9                                  | British Columbia..... "                                  | 36,247      | 49,459      | 98,173              | 178,657     | 268,276                  |
| 10                                 | Yukon..... "                                             | —           | —           | —                   | 27,219      | 14,899                   |
| 11                                 | Northwest Territories..... "                             | 48,000      | 56,446      | 98,967              | 20,129      | 18,364                   |
|                                    | Canada..... "                                            | 3,689,257   | 4,324,810   | 4,833,239           | 5,371,315   | 6,201,887                |
| <b>Immigration (fiscal years)—</b> |                                                          |             |             |                     |             |                          |
| 12                                 | From United Kingdom..... No.                             | —           | —           | 11,383 <sup>2</sup> | 11,810      | 86,796                   |
| 13                                 | " United States..... "                                   | —           | —           | 2,412 <sup>2</sup>  | 17,987      | 57,796                   |
| 14                                 | " Other Countries..... "                                 | —           | —           | 7,921 <sup>2</sup>  | 19,352      | 44,472                   |
|                                    | Totals..... "                                            | 27,773      | 47,991      | 21,716 <sup>2</sup> | 49,149      | 189,064                  |
| <b>Agriculture—</b>                |                                                          |             |             |                     |             |                          |
| 15                                 | Area of occupied farms..... acre                         | 36,046,401  | 45,358,141  | 58,997,995          | 63,422,338  | —                        |
| 16                                 | Improved lands..... "                                    | 17,335,818  | 21,899,181  | 27,729,852          | 30,166,033  | —                        |
| <b>Field Crops<sup>3</sup>—</b>    |                                                          |             |             |                     |             |                          |
| 17                                 | Wheat..... acre                                          | 1,646,781   | 2,366,554   | 2,701,213           | 4,224,542   | —                        |
|                                    | bush.                                                    | 16,723,873  | 32,350,269  | 42,223,372          | 55,572,368  | —                        |
|                                    | \$                                                       | 16,993,265  | 38,820,323  | 31,667,529          | 36,122,039  | —                        |
| 18                                 | Oats..... acre                                           | —           | 3,961,356   | 5,367,655           | —           | —                        |
|                                    | bush.                                                    | 42,489,459  | 70,493,131  | 83,428,202          | 151,497,407 | —                        |
|                                    | \$                                                       | 15,966,310  | 23,967,665  | 31,702,717          | 51,509,118  | —                        |
| 19                                 | Barley..... acre                                         | —           | —           | 868,464             | 871,800     | —                        |
|                                    | bush.                                                    | 11,496,038  | 16,844,868  | 17,222,795          | 22,224,366  | —                        |
|                                    | \$                                                       | 8,170,735   | 11,791,408  | 8,611,397           | 8,889,746   | —                        |
| 20                                 | Corn..... acre                                           | —           | —           | 195,101             | 360,758     | —                        |
|                                    | bush.                                                    | 3,802,830   | 9,025,142   | 10,711,380          | 25,875,919  | —                        |
|                                    | \$                                                       | 2,283,145   | 5,415,085   | 5,034,348           | 11,902,923  | —                        |
| 21                                 | Potatoes..... acre                                       | 403,102     | 464,289     | 450,190             | 448,743     | —                        |
|                                    | bush.                                                    | 47,330,187  | 55,368,790  | 53,490,857          | 55,362,635  | —                        |
|                                    | \$                                                       | 15,211,774  | 13,288,510  | 21,396,342          | 13,840,658  | —                        |
| 22                                 | Hay and clover..... acre                                 | 3,650,419   | 4,458,349   | 5,931,548           | 6,543,423   | —                        |
|                                    | ton                                                      | 3,818,641   | 5,055,810   | 7,693,733           | 6,943,715   | —                        |
|                                    | \$                                                       | 38,869,900  | 40,446,480  | 69,243,597          | 85,625,315  | —                        |
|                                    | Total Areas, Field Crops... acre                         | —           | —           | 15,662,811          | 19,763,740  | —                        |
|                                    | Total Values, Field Crops <sup>4</sup> ... \$            | 111,116,606 | 155,277,427 | 194,766,934         | 237,682,285 | —                        |
| <b>Live Stock—</b>                 |                                                          |             |             |                     |             |                          |
| 23                                 | Horses..... No.                                          | 836,743     | 1,059,358   | 1,470,572           | 1,577,493   | —                        |
|                                    | \$                                                       | —           | —           | —                   | 118,279,419 | —                        |
| 24                                 | Milch cows..... No.                                      | 1,251,209   | 1,595,800   | 1,857,112           | 2,408,677   | —                        |
|                                    | \$                                                       | —           | —           | —                   | 69,237,970  | —                        |
| 25                                 | Other cattle..... No.                                    | 1,373,081   | 1,919,189   | 2,263,474           | 3,167,774   | —                        |
|                                    | \$                                                       | —           | —           | —                   | 54,197,341  | —                        |
| 26                                 | Sheep..... No.                                           | 3,155,509   | 3,048,678   | 2,562,781           | 2,510,239   | —                        |
|                                    | \$                                                       | —           | —           | —                   | 10,490,594  | —                        |
| 27                                 | Swine..... No.                                           | 1,366,083   | 1,207,619   | 1,733,850           | 2,353,828   | —                        |
|                                    | \$                                                       | —           | —           | —                   | 16,445,702  | —                        |
|                                    | Total Values, Live Stock... \$                           | —           | —           | —                   | 268,651,026 | —                        |
| <b>Dairying<sup>5</sup>—</b>       |                                                          |             |             |                     |             |                          |
| 28                                 | Cheese, factory..... lb.                                 | 155,524     | 54,574,856  | 97,418,855          | 220,833,269 | 204,788,533 <sup>6</sup> |
|                                    | \$                                                       | 17,585      | 5,130,036   | 9,644,467           | 22,221,430  | 23,597,639 <sup>6</sup>  |
| 29                                 | Butter, creamery..... lb.                                | 981,939     | 1,365,912   | 3,654,364           | 36,066,739  | 45,930,294 <sup>6</sup>  |
|                                    | \$                                                       | 188,532     | 225,375     | 635,859             | 7,240,972   | 10,949,062 <sup>6</sup>  |
| 30                                 | Butter, home-made..... lb.                               | 74,190,584  | 102,545,169 | 111,577,210         | 105,343,076 | —                        |
|                                    | \$                                                       | 14,244,592  | 16,919,953  | 19,414,435          | 21,384,644  | —                        |
| 31                                 | Miscellaneous dairy products <sup>10</sup> \$            | —           | —           | —                   | 15,623,907  | —                        |
|                                    | Total Values, Dairy Products \$                          | 15,023,966  | 22,743,939  | 30,315,214          | 66,740,953  | —                        |
| 32                                 | Forestry—Exports of Wood, Wood Products and Paper.... \$ | —           | —           | 25,351,085          | 33,099,915  | 45,716,762               |
| 33                                 | Fisheries..... \$                                        | 7,573,199   | 15,817,162  | 18,977,874          | 25,737,153  | 26,279,485               |
| 34                                 | Raw Furs..... \$                                         | —           | 987,555     | 768,933             | 899,645     | —                        |

<sup>1</sup>Estimated populations are given for inter-censal and post-censal years. <sup>2</sup>1897. <sup>3</sup>The figures for the decennial census years 1871-1921 are for the next preceding years, those for 1871 are for the four original provinces only. Export prices have been used in working out values of dairy products. <sup>4</sup>The figures for 1934 are subject to revision. <sup>5</sup>Cwt.

# STATISTICAL SUMMARY OF THE PROGRESS OF CANADA—continued.

Area of the Dominion of Canada in square miles: Land, 3,466,793; Fresh Water, 228,070; Total, 3 644.863

| 1911.       | 1916.       | 1921.                  | 1926.                   | 1931. <sup>a</sup>       | 1932.                   | 1933.                   | 1934. <sup>a</sup>      |    |
|-------------|-------------|------------------------|-------------------------|--------------------------|-------------------------|-------------------------|-------------------------|----|
| 93,728      | 90,916      | 88,615                 | 87,000                  | 88,038                   | 88,000                  | 89,000                  | 89,000                  | 1  |
| 492,338     | 506,660     | 523,837                | 515,000                 | 512,846                  | 513,000                 | 522,000                 | 526,000                 | 2  |
| 351,889     | 368,844     | 387,876                | 396,000                 | 408,219                  | 409,000                 | 420,000                 | 426,000                 | 3  |
| 2,005,776   | 2,177,352   | 2,361,199              | 2,603,000               | 2,874,255                | 2,904,000               | 2,970,000               | 3,022,000               | 4  |
| 2,527,292   | 2,722,804   | 2,933,662              | 3,164,000               | 3,431,683                | 3,459,000               | 3,524,000               | 3,566,000               | 5  |
| 461,394     | 553,560     | 610,118                | 639,000                 | 700,139                  | 705,000                 | 722,000                 | 731,000                 | 6  |
| 492,432     | 647,535     | 757,510                | 821,000                 | 921,785                  | 971,000                 | 951,000                 | 966,000                 | 7  |
| 374,295     | 496,525     | 588,454                | 608,000                 | 731,605                  | 740,000                 | 757,000                 | 770,000                 | 8  |
| 392,480     | 457,243     | 524,582                | 606,000                 | 694,263                  | 704,000                 | 712,000                 | 725,000                 | 9  |
| 8,512       | 6,317       | 4,157                  | 4,000                   | 4,230                    | 4,000                   | 4,000                   | 4,000                   | 10 |
| 6,507       | 7,228       | 7,988                  | 7,000                   | 9,723                    | 9,000                   | 10,000                  | 10,000                  | 11 |
| 7,206,643   | 8,035,584   | 8,788,483 <sup>b</sup> | 9,450,000               | 10,376,786               | 10,506,000              | 10,681,000              | 10,835,000              |    |
| 123,013     | 8,664       | 74,262                 | 37,569                  | 27,584                   | 7,088                   | 3,097                   | 2,260                   | 12 |
| 121,451     | 36,937      | 48,059                 | 18,778                  | 24,280                   | 14,297                  | 13,196                  | 7,740                   | 13 |
| 66,620      | 2,936       | 26,156                 | 39,717                  | 36,359                   | 4,367                   | 3,489                   | 3,903                   | 14 |
| 311,084     | 48,537      | 148,477                | 96,064                  | 88,223                   | 25,752                  | 19,782                  | 13,903                  |    |
| 108,968,715 | —           | 140,887,903            | —                       | 163,119,231              | —                       | —                       | —                       | 15 |
| 48,733,823  | —           | 70,769,548             | —                       | 85,733,309               | —                       | —                       | —                       | 16 |
| 8,864,154   | 15,369,709  | 17,835,734             | 22,895,649              | 26,355,136 <sup>a</sup>  | 27,182,100              | 25,991,100              | 23,985,000              | 17 |
| 132,077,547 | 262,781,000 | 226,508,411            | 407,136,000             | 321,325,000 <sup>a</sup> | 443,061,000             | 281,892,000             | 275,849,000             |    |
| 104,816,825 | 344,096,400 | 374,178,601            | 442,221,000             | 123,550,000 <sup>a</sup> | 154,760,000             | 136,958,000             | 163,972,000             |    |
| 8,656,179   | 10,996,487  | 13,879,257             | 12,741,340              | 12,837,736 <sup>a</sup>  | 13,148,400              | 13,528,900              | 13,730,800              | 18 |
| 245,393,425 | 410,211,000 | 364,989,218            | 383,416,000             | 328,278,000 <sup>a</sup> | 391,561,060             | 307,478,000             | 321,120,000             |    |
| 86,796,130  | 210,957,000 | 180,989,587            | 184,098,000             | 77,970,000 <sup>a</sup>  | 75,988,000              | 79,818,000              | 105,380,000             |    |
| 1,283,094   | 1,802,996   | 2,043,669              | 3,642,462               | 3,791,395 <sup>a</sup>   | 3,757,600               | 3,658,000               | 3,612,500               | 19 |
| 28,848,310  | 42,770,000  | 42,956,049             | 99,987,100              | 67,382,600 <sup>a</sup>  | 80,773,000              | 63,359,000              | 63,742,000              |    |
| 14,653,697  | 35,024,000  | 33,514,070             | 52,059,000              | 17,465,000 <sup>a</sup>  | 18,855,000              | 18,954,000              | 29,107,000              |    |
| 293,951     | 173,000     | 204,775                | 209,725                 | 131,829 <sup>a</sup>     | 130,000                 | 136,600                 | 161,100                 | 20 |
| 14,417,599  | 6,282,000   | 10,822,278             | 7,813,000               | 5,449,000 <sup>a</sup>   | 5,057,000               | 5,054,000               | 6,798,000               |    |
| 5,774,039   | 6,747,000   | 7,081,140              | 7,780,000               | 2,274,000 <sup>a</sup>   | 2,276,000               | 2,982,000               | 4,419,000               |    |
| 464,504     | 472,992     | 534,621                | 523,112                 | 591,804 <sup>a</sup>     | 521,500                 | 527,700                 | 569,200                 | 21 |
| 55,461,473  | 63,297,000  | 62,230,052             | 46,937,000 <sup>a</sup> | 52,305,000 <sup>a</sup>  | 39,416,000 <sup>a</sup> | 42,745,000 <sup>a</sup> | 48,095,000 <sup>a</sup> |    |
| 27,426,765  | 50,982,300  | 44,635,547             | 69,204,000              | 22,359,000 <sup>a</sup>  | 24,920,000              | 33,092,000              | 23,822,000              |    |
| 8,289,407   | 7,821,257   | 8,541,093              | 9,516,125               | 9,114,457 <sup>a</sup>   | 8,811,600               | 8,875,900               | 8,881,400               | 22 |
| 10,406,367  | 14,527,000  | 8,593,393              | 14,058,000              | 14,539,600 <sup>a</sup>  | 13,559,000              | 11,443,000              | 11,174,000              |    |
| 90,115,531  | 168,547,900 | 169,822,397            | 170,473,000             | 110,110,000 <sup>a</sup> | 96,654,000              | 100,306,000             | 131,295,000             |    |
| 30,556,168  | 38,930,333  | 47,553,418             | 56,097,836              | 58,074,905 <sup>a</sup>  | 59,643,200              | 58,533,450              | 56,040,420              |    |
| 384,513,795 | 886,494,900 | 933,045,936            | 1,104,983,100           | 432,199,400 <sup>a</sup> | 452,526,900             | 453,598,000             | 544,974,600             |    |
| 2,598,958   | 3,246,430   | 3,624,262              | 3,398,114               | 3,113,909 <sup>a</sup>   | 3,088,630               | 2,984,095               | 2,933,492               | 23 |
| 381,915,505 | 418,686,000 | 440,502,040            | 245,119,000             | 155,908,000 <sup>a</sup> | 141,640,000             | 154,215,000             | 168,132,000             |    |
| 2,595,255   | 2,835,532   | 3,324,653              | 3,839,191               | 3,371,923 <sup>a</sup>   | 3,594,500               | 3,694,000               | 3,864,200               | 24 |
| 109,575,526 | 198,896,000 | 203,555,836            | 201,236,000             | 143,616,000 <sup>a</sup> | 114,814,000             | 113,115,000             | 110,721,000             |    |
| 3,930,828   | 3,763,155   | 5,194,831              | 4,731,688               | 4,601,108 <sup>a</sup>   | 4,916,600               | 5,182,000               | 5,087,700               | 25 |
| 86,278,490  | 204,477,000 | 139,590,484            | 148,742,000             | 114,201,000 <sup>a</sup> | 84,497,000              | 88,452,000              | 84,657,000              |    |
| 2,174,300   | 2,025,030   | 3,203,966              | 3,142,476               | 3,627,116 <sup>a</sup>   | 3,644,500               | 3,885,800               | 3,421,100               | 26 |
| 10,701,691  | 20,927,000  | 20,704,509             | 31,417,000              | 18,596,000 <sup>a</sup>  | 12,084,000              | 13,549,000              | 14,298,000              |    |
| 3,634,778   | 3,484,982   | 3,404,730              | 4,359,582               | 4,699,831 <sup>a</sup>   | 4,639,100               | 3,800,700               | 3,654,000               | 27 |
| 26,986,621  | 60,700,000  | 36,893,244             | 69,958,000              | 32,773,000 <sup>a</sup>  | 21,964,000              | 33,804,000              | 36,029,000              |    |
| 615,457,833 | 903,686,000 | 836,413,401            | 696,472,000             | 465,094,000 <sup>a</sup> | 374,999,000             | 403,135,000             | 413,837,000             |    |
| 199,904,205 | 192,968,597 | 162,117,494            | 171,731,631             | 113,956,639              | 120,524,243             | 111,146,493             | 99,754,500              | 28 |
| 21,587,124  | 35,512,622  | 28,710,030             | 28,807,841              | 12,824,695               | 11,379,922              | 11,127,984              | 9,832,900               |    |
| 64,489,398  | 82,564,130  | 128,734,610            | 177,209,287             | 225,955,246              | 214,002,127             | 219,232,546             | 233,047,500             | 29 |
| 15,597,807  | 26,966,355  | 48,135,439             | 61,753,890              | 50,198,878               | 40,475,479              | 43,546,109              | 46,441,300              |    |
| 137,110,200 | —           | 100,000,000            | 95,000,000              | 103,310,000 <sup>a</sup> | 106,956,000             | 108,455,000             | 109,918,000             | 30 |
| 30,269,497  | —           | 29,840,000             | 28,252,777              | 21,450,000 <sup>a</sup>  | 15,311,000              | 16,623,000              | 17,492,000              |    |
| 35,927,426  | —           | 98,750,881             | 158,490,971             | 106,916,119              | 91,907,732              | 99,591,574              | 108,199,821             | 31 |
| 103,381,854 | —           | 205,436,350            | 277,304,979             | 191,389,692              | 159,074,133             | 170,828,667             | 181,966,021             |    |
| 56,334,695  | 83,116,282  | 284,561,478            | 278,674,960             | 230,604,474              | 175,740,269             | 120,886,796             | 143,142,398             | 32 |
| 34,667,872  | 35,560,708  | 34,931,935             | 56,360,633              | 30,517,306               | 25,957,109              | 27,558,053              | —                       | 33 |
| 1,927,550   | —           | 10,151,594             | 15,072,244              | 11,806,217               | 10,189,431              | 10,350,154              | 12,122,293              | 34 |

<sup>a</sup>See Monthly Bulletin of Agricultural Statistics for May, 1921, for particulars of the values of field crops for the years 1871, 1881, 1891 and 1901. <sup>b</sup>Includes Canadian Navy. <sup>c</sup>Figures are for 1907. <sup>d</sup>The figures for occupied and improved farm lands, field crops, live stock, home-made butter, miscellaneous dairy products and raw furs have been revised since their publication in the 1933 Year Book. <sup>e</sup>Previous to 1931 this item does not include skim milk and buttermilk.

## STATISTICAL SUMMARY OF THE PROGRESS OF CANADA—continued.

|                                          | Item.                                       | 1871.                      | 1881.                   | 1891.       | 1901.       | 1906.       |
|------------------------------------------|---------------------------------------------|----------------------------|-------------------------|-------------|-------------|-------------|
| <b>Mineral Production—</b>               |                                             |                            |                         |             |             |             |
| 1                                        | Gold <sup>12</sup> .....                    | oz. 105,187                | 63,524                  | 45,018      | 1,167,216   | 556,415     |
|                                          | \$ 2,174,412                                | 1,813,153                  | 930,614                 | 24,128,503  | 11,502,120  |             |
| 2                                        | Silver.....                                 | oz. —                      | 355,083 <sup>1</sup>    | 414,523     | 5,539,192   | 8,473,379   |
|                                          | \$ —                                        | 347,271 <sup>1</sup>       | 409,549                 | 3,265,354   | 5,659,455   |             |
| 3                                        | Copper.....                                 | lb. —                      | 3,260,428 <sup>1</sup>  | 9,529,401   | 37,827,019  | 55,609,888  |
|                                          | \$ —                                        | 366,794 <sup>1</sup>       | 1,226,703               | 6,096,581   | 10,720,474  |             |
| 4                                        | Lead.....                                   | lb. —                      | 204,800 <sup>1</sup>    | 88,665      | 51,900,958  | 54,608,217  |
|                                          | \$ —                                        | 9,216 <sup>1</sup>         | 3,857                   | 2,249,387   | 3,089,187   |             |
| 5                                        | Nickel.....                                 | lb. —                      | 830,477 <sup>1</sup>    | 4,035,347   | 9,189,047   | 21,490,955  |
|                                          | \$ —                                        | 498,286 <sup>1</sup>       | 2,421,208               | 4,594,523   | 8,948,834   |             |
| 6                                        | Pig iron.....                               | ton —                      | 24,827 <sup>1</sup>     | 23,891      | 274,376     | 598,411     |
|                                          | \$ —                                        | 366,192 <sup>1</sup>       | 368,901                 | 3,512,923   | 7,955,136   |             |
| 7                                        | Coal.....                                   | ton 1,063,742 <sup>3</sup> | 1,537,106               | 3,577,749   | 6,486,325   | 9,762,601   |
|                                          | \$ 1,763,423 <sup>3</sup>                   | 2,688,621                  | 7,019,425               | 12,699,243  | 19,732,019  |             |
| 8                                        | Cement.....                                 | bri. —                     | 69,843 <sup>1</sup>     | 93,479      | 450,394     | 2,128,374   |
|                                          | \$ —                                        | 81,909 <sup>1</sup>        | 108,561                 | 660,030     | 3,170,859   |             |
|                                          | Totals, Mineral Production..                | \$ —                       | 10,221,255 <sup>3</sup> | 18,976,616  | 65,797,911  | 79,286,697  |
| <b>Electric Statistics—</b>              |                                             |                            |                         |             |             |             |
| 9                                        | Power Houses.....                           | No. —                      | —                       | 80          | 58          | 157         |
| 10                                       | Capital invested.....                       | \$ —                       | —                       | 4,113,771   | 11,891,025  | 80,393,445  |
| 11                                       | Kilowatt hours generated <sup>4</sup> ..... | No. —                      | —                       | —           | —           | —           |
| 12                                       | Customers.....                              | No. —                      | —                       | —           | —           | —           |
| <b>Water Power—</b>                      |                                             |                            |                         |             |             |             |
| 13                                       | Turbine H.P. installed.....                 | No. —                      | —                       | 71,219      | 238,902     | 608,002     |
| <b>Manufactures<sup>5</sup>—</b>         |                                             |                            |                         |             |             |             |
| 14                                       | Employees.....                              | No. 187,942                | 254,894                 | 272,033     | 339,173     | 383,920     |
| 15                                       | Capital.....                                | \$ 77,964,020              | 164,957,423             | 353,213,000 | 446,916,487 | 833,916,155 |
| 16                                       | Salaries and wages.....                     | \$ 40,851,009              | 59,401,702              | 79,234,311  | 113,249,350 | 162,155,578 |
| 17                                       | Products—                                   |                            |                         |             |             |             |
|                                          | Gross.....                                  | \$ 221,617,773             | 309,731,867             | 368,696,723 | 481,053,375 | 706,446,578 |
|                                          | Net.....                                    | \$ 95,709,927              | —                       | —           | 214,525,517 | —           |
| <b>External Trade (fiscal years)—</b>    |                                             |                            |                         |             |             |             |
| 18                                       | Exports <sup>6</sup> .....                  | \$ 57,630,024              | 83,944,701              | 88,671,738  | 177,431,386 | 235,483,956 |
| 19                                       | Imports <sup>7</sup> .....                  | \$ 84,214,388              | 90,488,329              | 111,533,954 | 177,930,919 | 283,740,280 |
|                                          | Totals, External Trade.....                 | \$ 141,844,412             | 174,433,030             | 200,205,692 | 355,362,305 | 519,224,236 |
| 20                                       | Exports to United Kingdom...                | \$ 21,733,556              | 42,637,219              | 43,243,784  | 92,857,525  | 127,456,465 |
| 21                                       | Imports from United Kingdom                 | \$ 48,498,202              | 42,885,142              | 42,018,943  | 42,820,334  | 69,183,915  |
| 22                                       | Exports to United States.....               | \$ 29,164,358              | 34,038,431              | 37,743,430  | 67,983,673  | 83,546,306  |
| 23                                       | Imports from United States...               | \$ 27,185,586              | 36,338,701              | 52,033,477  | 107,377,906 | 169,256,452 |
| <b>Exports, Domestic, by Chief Items</b> |                                             |                            |                         |             |             |             |
| 24                                       | Wheat.....                                  | bush. 1,748,977            | 2,523,673               | 2,108,216   | 9,739,758   | 40,399,402  |
|                                          | \$ 1,981,917                                | 2,593,820                  | 1,583,084               | 6,871,939   | 33,658,391  |             |
| 25                                       | Wheat flour.....                            | bri. 306,339               | 439,728                 | 296,784     | 1,118,700   | 1,532,014   |
|                                          | \$ 1,609,849                                | 2,173,108                  | 1,338,578               | 4,015,226   | 6,179,825   |             |
| 26                                       | Oats.....                                   | bush. 542,386              | 2,926,532               | 260,560     | 8,155,063   | 2,700,303   |
|                                          | \$ 231,227                                  | 1,791,873                  | 129,917                 | 2,490,521   | 1,083,347   |             |
| 27                                       | Hay.....                                    | ton 23,487                 | 168,381                 | 65,083      | 252,977     | 206,714     |
|                                          | \$ 290,217                                  | 1,813,208                  | 559,489                 | 2,097,882   | 1,529,941   |             |
| 28                                       | Bacon and hams, shoulders and sides. }      | cwt. 103,444               | 103,547                 | 75,541      | 1,055,495   | 1,029,079   |
|                                          | \$ 1,018,918                                | 758,334                    | 628,469                 | 11,778,446  | 12,086,668  |             |
| 29                                       | Butter.....                                 | lb. 15,439,266             | 17,649,491              | 3,768,101   | 16,335,528  | 34,031,625  |
|                                          | \$ 3,065,234                                | 3,573,034                  | 602,175                 | 3,295,663   | 7,075,539   |             |
| 30                                       | Cheese.....                                 | lb. 8,271,439              | 49,255,523              | 106,202,140 | 195,926,697 | 216,534,643 |
|                                          | \$ 1,109,906                                | 5,510,443                  | 9,508,800               | 20,696,951  | 24,433,169  |             |
| 31                                       | Gold, raw.....                              | \$ 163,037                 | 767,318                 | 554,126     | 24,445,156  | 12,991,916  |
| 32                                       | Silver.....                                 | oz. —                      | —                       | —           | 4,022,019   | 7,261,527   |
|                                          | \$ 595,261                                  | 34,494                     | 238,367                 | 2,420,750   | 4,310,528   |             |
| 33                                       | Copper <sup>8</sup> .....                   | lb. 6,246,000              | 39,604,000              | 10,994,498  | 26,345,776  | 44,282,348  |
|                                          | \$ 120,121                                  | 150,412                    | 505,196                 | 2,659,261   | 7,148,633   |             |
| 34                                       | Nickel.....                                 | lb. —                      | —                       | 5,352,043   | 9,537,558   | 23,959,841  |
|                                          | \$ —                                        | —                          | 240,499                 | 958,365     | 2,166,936   |             |
| 35                                       | Coal.....                                   | ton 313,287                | 420,055                 | 833,684     | 1,888,538   | 1,820,511   |
|                                          | \$ 662,451                                  | 1,123,091                  | 2,916,465               | 5,307,060   | 4,643,198   |             |
| 36                                       | Asbestos.....                               | ton —                      | —                       | 7,022       | 26,715      | 57,075      |
|                                          | \$ —                                        | —                          | 513,909                 | 864,573     | 1,578,137   |             |
| 37                                       | Wood pulp.....                              | cwt. —                     | —                       | —           | —           | —           |
|                                          | \$ —                                        | —                          | 280,619                 | 1,937,207   | 3,478,150   |             |
| 38                                       | Newsprint paper.....                        | cwt. —                     | —                       | —           | —           | —           |
|                                          | \$ —                                        | —                          | —                       | —           | —           |             |

<sup>1</sup> 1887. <sup>2</sup> 1874. <sup>3</sup> 1886. <sup>4</sup> 000's omitted. <sup>5</sup> The statistics of manufactures in 1871 and 1881 include works employing fewer than 5 hands, while those of 1891, 1901, 1911 and 1916 are for works with 5 hands and over except in the case of butter and cheese factories, flour and grist mills, electric light plants, lumber, lath and shingle mills, lime kilns, brick and tile works, and fish canneries. The figures for these years are for the preceding years in each case. From 1922 statistics are exclusive of construction, hand trades, repair and custom work. Figures for 1925-30 include non-ferrous metal smelting not included in earlier



## STATISTICAL SUMMARY OF THE PROGRESS OF CANADA—continued.

| 1911.         | 1916.         | 1921.         | 1926.                    | 1931.                   | 1932.                    | 1933.                   | 1934. <sup>9</sup>      |    |
|---------------|---------------|---------------|--------------------------|-------------------------|--------------------------|-------------------------|-------------------------|----|
| 473,159       | 930,492       | 926,329       | 1,754,228                | 2,693,892               | 3,044,387                | 2,949,309               | 2,969,680               | 1  |
| 9,781,077     | 19,234,976    | 19,148,920    | 36,263,110               | 58,093,396              | 71,479,373               | 84,350,237              | 102,453,960             |    |
| 32,559,044    | 25,459,741    | 13,543,198    | 22,371,924               | 20,562,247              | 18,347,907               | 15,187,950              | 16,441,361              | 2  |
| 17,355,272    | 16,717,121    | 8,456,355     | 13,894,531               | 6,141,943               | 5,811,081                | 6,746,027               | 7,803,218               |    |
| 55,648,011    | 117,150,028   | 47,620,820    | 133,094,942              | 292,304,390             | 247,679,070              | 299,982,448             | 364,890,860             | 3  |
| 6,886,998     | 31,867,150    | 5,953,553     | 17,490,300               | 24,114,065              | 15,294,058               | 21,634,853              | 26,681,069              |    |
| 23,784,969    | 41,497,615    | 66,679,592    | 283,801,265              | 267,342,482             | 255,947,378              | 266,475,191             | 346,270,062             | 4  |
| 827,717       | 3,532,692     | 3,328,742     | 19,240,661               | 7,260,183               | 5,409,704                | 6,372,998               | 8,436,524               |    |
| 34,098,744    | 82,958,564    | 19,293,060    | 65,714,294               | 65,666,320              | 30,327,968               | 83,264,658              | 128,687,340             | 5  |
| 10,229,623    | 29,035,498    | 6,752,571     | 14,374,163               | 15,267,453              | 7,179,862                | 20,130,480              | 32,139,425              |    |
| 917,535       | 1,169,257     | 665,676       | 820,426                  | 470,443                 | 161,426                  | 254,595                 | 455,834                 | 6  |
| 12,307,125    | 16,750,898    | 15,511,828    | 16,011,173 <sup>10</sup> | 7,863,111 <sup>10</sup> | 2,829,272 <sup>10</sup>  | 4,168,994 <sup>10</sup> | 7,753,255 <sup>10</sup> |    |
| 11,323,388    | 14,483,395    | 15,057,495    | 16,478,131               | 12,243,211              | 11,738,913               | 11,903,344              | 13,795,649              | 7  |
| 26,467,646    | 38,817,481    | 72,451,656    | 59,875,094               | 41,207,682              | 37,117,695               | 35,923,962              | 41,922,253              |    |
| 5,692,915     | 5,369,560     | 5,752,885     | 8,707,021                | 10,161,658              | 4,498,721                | 3,007,432               | 3,783,226               | 8  |
| 7,644,537     | 6,547,728     | 14,195,143    | 13,013,283               | 15,826,243              | 6,930,721                | 4,536,935               | 5,667,946               |    |
| 103,220,994   | 177,201,534   | 171,923,342   | 204,437,123              | 230,434,726             | 191,228,225              | 221,495,253             | 277,492,263             |    |
| 266           | 307           | 510           | 595                      | 559 <sup>13</sup>       | 572                      | 575                     | -                       | 9  |
| 110,838,746   | 248,573,546   | 484,669,451   | 756,220,066              | 1,229,988,951           | 1,335,886,987            | 1,386,532,055           | -                       | 10 |
| -             | -             | 5,614,132     | 12,093,445               | 16,330,867              | 16,052,057               | 17,338,992              | -                       | 11 |
| -             | -             | 973,212       | 1,337,562                | 1,632,712               | 1,657,454                | 1,666,880               | -                       | 12 |
| 1,363,134     | 2,222,169     | 2,754,157     | 4,549,383                | 6,666,337               | 7,045,260                | 7,332,070               | 7,547,035               | 13 |
| 515,203       | -             | 456,076       | 581,539                  | 557,426                 | 495,398                  | 493,903                 | -                       | 14 |
| 1,247,583,609 | 1,958,705,230 | 3,190,026,358 | 3,981,569,590            | 4,961,312,408           | 4,741,255,610            | 4,689,373,704           | -                       | 15 |
| 241,008,416   | 283,311,505   | 518,735,137   | 653,850,933              | 624,545,561             | 505,883,323              | 465,562,090             | -                       | 16 |
| 1,165,975,639 | 1,381,547,225 | 2,576,037,029 | 3,247,803,438            | 2,698,461,862           | 2,126,194,555            | 2,086,847,847           | -                       | 17 |
| 564,466,621   | 589,603,792   | 1,209,143,344 | 1,492,645,039            | 1,474,581,851           | 1,170,225,872            | 1,117,659,273           | -                       |    |
| 274,316,553   | 741,610,638   | 1,189,163,701 | 1,315,355,791            | 799,742,667             | 576,344,302              | 473,799,955             | 579,343,145             | 18 |
| 452,724,603   | 508,201,134   | 1,240,158,882 | 927,328,732              | 906,612,695             | 578,503,904              | 406,383,744             | 433,798,623             | 19 |
| 727,041,156   | 1,249,811,772 | 2,429,322,583 | 2,242,684,523            | 1,706,355,362           | 1,154,848,206            | 880,183,699             | 1,013,141,770           |    |
| 132,156,924   | 451,852,399   | 312,844,871   | 508,237,560              | 219,246,499             | 174,043,725              | 184,361,019             | 227,601,411             | 20 |
| 109,934,753   | 77,404,361    | 213,973,562   | 163,731,210              | 149,497,392             | 106,371,779              | 86,466,055              | 105,100,764             | 21 |
| 104,115,823   | 201,106,488   | 542,322,967   | 474,987,367              | 349,660,563             | 235,186,674              | 143,160,400             | 194,443,139             | 22 |
| 275,824,265   | 370,880,549   | 856,176,820   | 608,618,542              | 584,407,018             | 351,686,775              | 232,548,055             | 238,187,681             | 23 |
| 45,802,115    | 157,745,469   | 129,251,157   | 249,679,470              | 217,243,037             | 191,315,933              | 239,373,255             | 175,534,255             | 24 |
| 45,521,134    | 172,896,445   | 310,952,138   | 364,364,388              | 177,419,769             | 115,739,383              | 130,546,365             | 118,969,445             |    |
| 3,049,046     | 6,400,214     | 6,017,032     | 10,084,974               | 7,218,188               | 5,413,740                | 5,268,371               | 5,619,937               | 25 |
| 13,854,790    | 35,767,044    | 66,520,490    | 69,687,595               | 32,876,234              | 19,897,543               | 16,987,110              | 19,729,782              |    |
| 3,431,662     | 26,816,822    | 14,321,048    | 43,058,283               | 3,258,501               | 13,841,300               | 18,824,449              | 5,707,502               | 26 |
| 2,144,846     | 14,637,849    | 14,152,033    | 24,237,692               | 1,146,266               | 4,662,335                | 4,300,592               | 1,747,650               |    |
| 326,132       | 255,407       | 179,398       | 368,787                  | 156,722                 | 56,281                   | 27,138                  | 29,362                  | 27 |
| 2,723,291     | 5,849,426     | 4,210,594     | 3,711,840                | 1,590,657               | 523,102                  | 212,682                 | 295,322                 |    |
| 598,745       | 1,536,517     | 982,338       | 1,253,760                | 121,770                 | 185,146                  | 402,101                 | 960,178                 | 28 |
| 8,526,332     | 27,090,113    | 31,492,407    | 28,590,301               | 2,914,273               | 2,446,564                | 4,023,518               | 12,683,273              |    |
| 3,142,682     | 3,441,183     | 9,739,414     | 23,303,865               | 1,162,900               | 10,917,300               | 3,206,000               | 4,401,900               | 29 |
| 744,288       | 1,018,769     | 5,128,831     | 8,773,125                | 389,419                 | 2,362,888                | 589,537                 | 118,996                 |    |
| 181,895,724   | 168,961,583   | 133,620,340   | 148,333,500              | 79,590,400              | 85,424,700               | 85,711,600              | 74,966,900              | 30 |
| 20,739,507    | 26,690,500    | 37,146,722    | 33,718,587               | 12,989,726              | 10,593,967               | 8,758,415               | 8,176,271               |    |
| 5,344,465     | 16,870,394    | 3,038,779     | 25,968,094               | 17,832,608              | 13,671,565 <sup>14</sup> | 3,797,351 <sup>14</sup> | 2,629,346 <sup>14</sup> | 31 |
| 33,781,010    | 27,794,566    | 13,331,050    | 18,382,415               | 24,695,827              | 17,753,631               | 15,585,632              | 14,841,161              | 32 |
| 17,269,168    | 14,298,351    | 11,127,432    | 12,365,576               | 8,927,216               | 5,160,528                | 4,416,571               | 5,686,890               |    |
| 55,005,342    | 111,046,300   | 36,167,900    | 61,090,600               | 62,997,100              | 50,223,700               | 31,202,900              | 40,203,900              | 33 |
| 5,575,093     | 14,670,073    | 4,336,972     | 7,037,206                | 5,629,512               | 4,076,854                | 936,090                 | 2,109,770               |    |
| 34,767,523    | 70,443,000    | 47,018,300    | 71,081,400               | 81,929,300              | 54,379,100               | 32,560,700              | 106,642,100             | 34 |
| 3,842,332     | 7,714,769     | 9,405,291     | 12,829,244               | 18,246,375              | 12,109,400               | 7,464,500               | 28,198,238              |    |
| 2,315,171     | 1,971,124     | 2,277,202     | 753,842                  | 534,710                 | 333,239                  | 268,133                 | 229,729                 | 35 |
| 6,014,095     | 6,032,765     | 16,501,478    | 4,083,713                | 2,896,837               | 1,809,271                | 1,352,087               | 1,069,969               |    |
| 69,829        | 88,833        | 191,299       | 269,652                  | 219,541                 | 147,149                  | 104,894                 | 162,327                 | 36 |
| 2,076,477     | 2,962,010     | 12,633,389    | 9,920,900                | 7,719,974               | 4,628,117                | 2,970,632               | 5,494,002               |    |
| 6,588,655     | 8,144,019     | 14,562,036    | 19,812,381               | 13,862,122              | 11,762,563               | 8,786,823               | 12,906,150              | 37 |
| 5,715,582     | 10,376,548    | 71,552,037    | 49,909,870               | 35,061,689              | 27,684,782               | 17,786,135              | 25,102,381              |    |
| -             | 9,264,080     | 15,112,586    | 29,537,366               | 44,848,479              | 39,942,149               | 33,259,697              | 40,481,134              | 38 |
| 3,092,437     | 17,974,292    | 78,922,137    | 102,238,568              | 127,352,706             | 103,003,352              | 74,138,863              | 73,238,482              |    |

years. <sup>8</sup> Exports of domestic merchandise only. <sup>7</sup> Imports of merchandise for home consumption. <sup>9</sup> The figures for 1934 are subject to revision.

<sup>8</sup> Copper, fine, contained in ore, matte, regulus, etc.

<sup>10</sup> Estimated on the basis of sales. <sup>11</sup> The figures are for 1889. <sup>12</sup> As from 1931 the values include exchange equalization. <sup>13</sup> Revised since the publication of the 1933 Year Book. <sup>14</sup> Exclusive of exports of domestic gold bullion which, valued at the average current market price amounted to \$48,931,461 in 1932, \$58,064,323 in 1933, and \$99,010,926 in 1934.

## STATISTICAL SUMMARY OF THE PROGRESS OF CANADA—continued.

|                                         | Item.                                                          | 1871.                    | 1881.       | 1891.       | 1901.       | 1906.              |
|-----------------------------------------|----------------------------------------------------------------|--------------------------|-------------|-------------|-------------|--------------------|
| <b>Exports, Domestic, by Classes—</b>   |                                                                |                          |             |             |             |                    |
| 1                                       | Vegetable products (except chemicals, fibres and wood).. \$    | —                        | —           | 13,742,557  | 25,541,567  | 55,828,252         |
| 2                                       | Animals and their products (except chemicals and fibres) \$    | —                        | —           | 36,399,140  | 68,465,332  | 84,570,644         |
| 3                                       | Fibres, textiles and textile products..... \$                  | —                        | —           | 872,628     | 1,880,539   | 2,602,903          |
| 4                                       | Wood, wood products and paper \$                               | —                        | —           | 25,351,085  | 33,099,915  | 45,716,762         |
| 5                                       | Iron and its products..... \$                                  | —                        | —           | 556,527     | 3,778,897   | 4,705,296          |
| 6                                       | Non-ferrous metals and their products..... \$                  | —                        | —           | 1,618,955   | 33,395,096  | 28,455,786         |
| 7                                       | Non-metallic minerals and their products (ex. chemicals) \$    | —                        | —           | 3,988,584   | 7,356,444   | 7,817,475          |
| 8                                       | Chemicals and allied products. \$                              | —                        | —           | 851,211     | 791,855     | 1,784,800          |
| 9                                       | All other commodities..... \$                                  | —                        | —           | 5,291,051   | 3,121,741   | 4,002,038          |
|                                         | Totals, Exports, Domestic. \$                                  | 57,630,024               | 83,944,701  | 88,671,738  | 177,431,386 | 235,483,956        |
| <b>Imports for Consumption—</b>         |                                                                |                          |             |             |             |                    |
| 10                                      | Vegetable products (except chemicals, fibre and wood).. \$     | —                        | —           | 24,212,140  | 38,036,146  | 50,307,368         |
| 11                                      | Animals and their products (except chemicals and fibres) \$    | —                        | —           | 8,080,862   | 14,022,896  | 23,616,835         |
| 12                                      | Fibres, textiles and textile products..... \$                  | —                        | —           | 28,670,141  | 37,284,752  | 59,292,868         |
| 13                                      | Wood, wood products and paper \$                               | —                        | —           | 5,203,490   | 8,196,901   | 14,341,947         |
| 14                                      | Iron and its products..... \$                                  | —                        | —           | 15,142,615  | 29,955,936  | 49,486,840         |
| 15                                      | Non-ferrous metals and their products..... \$                  | —                        | —           | 3,810,626   | 7,167,318   | 17,533,430         |
| 16                                      | Non-metallic minerals and their products (except chemicals) \$ | —                        | —           | 14,139,024  | 21,255,403  | 33,757,284         |
| 17                                      | Chemicals and allied products.. \$                             | —                        | —           | 3,697,810   | 5,684,999   | 8,269,169          |
| 18                                      | All other commodities..... \$                                  | —                        | —           | 8,577,246   | 16,326,568  | 27,184,539         |
|                                         | Totals, Imports..... \$                                        | 84,214,388               | 90,488,329  | 111,533,954 | 177,930,919 | 283,740,280        |
| <b>Steam Railways—</b>                  |                                                                |                          |             |             |             |                    |
| 19                                      | Miles in operation..... No.                                    | 2,695                    | 7,331       | 13,838      | 18,140      | 21,353             |
| 20                                      | Capital..... \$                                                | 257,035,188 <sup>1</sup> | 284,419,293 | 632,061,440 | 816,110,837 | 1,065,881,629      |
| 21                                      | Passengers..... No.                                            | 5,190,416 <sup>2</sup>   | 6,943,671   | 13,222,568  | 18,385,722  | 27,989,782         |
| 22                                      | Freight..... ton                                               | 5,670,836 <sup>2</sup>   | 12,065,323  | 21,753,021  | 36,999,371  | 57,966,713         |
| 23                                      | Earnings..... \$                                               | 19,470,539 <sup>2</sup>  | 27,987,509  | 48,192,099  | 72,898,749  | 125,322,865        |
| 24                                      | Expenses..... \$                                               | 15,775,532 <sup>2</sup>  | 20,121,418  | 34,960,449  | 50,368,726  | 87,129,434         |
| <b>Electric Railways—</b>               |                                                                |                          |             |             |             |                    |
| 25                                      | Miles in operation..... No.                                    | —                        | —           | —           | 675         | 814                |
| 26                                      | Capital..... \$                                                | —                        | —           | —           | —           | —                  |
| 27                                      | Passengers..... No.                                            | —                        | —           | —           | 120,934,656 | 237,655,074        |
| 28                                      | Freight..... ton                                               | —                        | —           | —           | 287,926     | 506,024            |
| 29                                      | Earnings..... \$                                               | —                        | —           | —           | 5,768,233   | 10,966,871         |
| 30                                      | Expenses..... \$                                               | —                        | —           | —           | 3,435,162   | 6,675,037          |
| <b>Canals—</b>                          |                                                                |                          |             |             |             |                    |
| 31                                      | Passengers carried..... No.                                    | 100,377                  | 118,136     | 146,336     | 190,428     | 256,500            |
| 32                                      | Freight..... ton                                               | 3,955,621                | 2,853,230   | 2,902,526   | 5,665,259   | 10,523,185         |
| <b>Shipping (Sea-going)—</b>            |                                                                |                          |             |             |             |                    |
| 33                                      | Entered..... ton                                               | 2,521,573                | 4,032,946   | 5,273,935   | 7,514,732   | 8,895,353          |
| 34                                      | Cleared..... ton                                               | 2,594,460                | 4,071,391   | 5,421,261   | 7,028,330   | 7,948,076          |
| 35                                      | Totals..... ton                                                | 5,116,033                | 8,104,337   | 10,695,196  | 14,543,062  | 16,843,429         |
| <b>Shipping (Inland International)—</b> |                                                                |                          |             |             |             |                    |
| 36                                      | Entered..... ton                                               | 4,055,198                | 2,934,503   | 4,098,434   | 5,720,575   | 9,352,653          |
| 37                                      | Cleared..... ton                                               | 3,954,797                | 2,763,592   | 4,009,018   | 5,766,171   | 8,536,090          |
| 38                                      | Totals..... ton                                                | 8,009,995                | 5,698,095   | 8,107,452   | 11,486,746  | 17,888,743         |
| <b>Shipping (Coastwise)—</b>            |                                                                |                          |             |             |             |                    |
| 39                                      | Entered..... ton                                               | —                        | 7,664,863   | 12,835,774  | 17,927,959  | 23,543,604         |
| 40                                      | Cleared..... ton                                               | —                        | 7,451,903   | 12,150,356  | 16,516,832  | 22,780,458         |
| 41                                      | Totals..... ton                                                | —                        | 15,116,766  | 25,986,130  | 34,444,796  | 46,324,062         |
| <b>Communications—</b>                  |                                                                |                          |             |             |             |                    |
| 42                                      | Telegraphs, Government, miles of line..... No.                 | —                        | 1,947       | 2,699       | 5,744       | 6,829              |
| 43                                      | Telegraphs, other, miles of line. \$                           | —                        | —           | 27,866      | 30,194      | 31,506             |
| 44                                      | Telephones..... \$                                             | —                        | —           | —           | 63,192      | —                  |
| 45                                      | Motor vehicles..... \$                                         | —                        | —           | —           | —           | 2,130 <sup>3</sup> |

<sup>1</sup> 1876. <sup>2</sup> 1875. <sup>3</sup> Motor vehicles in 6 provinces numbered 2,130 in 1907.

## STATISTICAL SUMMARY OF THE PROGRESS OF CANADA—continued.

| 1911.         | 1916.         | 1921.         | 1926.               | 1931.               | 1932.                    | 1933.                  | 1934. <sup>4</sup> |      |
|---------------|---------------|---------------|---------------------|---------------------|--------------------------|------------------------|--------------------|------|
| 84,368,425    | 257,019,215   | 482,140,444   | 606,058,672         | 292,280,037         | 204,398,365              | 203,370,418            | 205,804,526        | 1    |
| 69,693,263    | 138,375,083   | 188,359,937   | 190,975,417         | 83,714,772          | 68,798,683               | 54,333,047             | 75,151,480         | 2    |
| 1,818,931     | 15,097,691    | 18,783,884    | 8,940,046           | 6,504,182           | 5,512,130                | 4,731,094              | 7,828,684          | 3    |
| 56,334,895    | 83,116,282    | 284,561,478   | 278,674,960         | 230,604,474         | 175,740,269              | 120,886,796            | 143,142,398        | 4    |
| 9,884,346     | 66,127,099    | 76,500,741    | 74,735,077          | 38,937,661          | 15,462,977               | 17,277,099             | 26,641,482         | 5    |
| 34,000,996    | 66,036,542    | 45,939,377    | 97,476,270          | 95,652,063          | 69,072,888               | 42,642,318             | 81,764,208         | 6    |
| 10,038,493    | 12,096,973    | 40,345,345    | 24,712,584          | 21,107,780          | 13,456,701               | 9,215,837              | 14,808,912         | 7    |
| 3,088,840     | 15,961,226    | 20,142,826    | 17,354,389          | 12,825,852          | 10,535,038               | 11,099,814             | 13,843,829         | 8    |
| 5,088,564     | 87,780,527    | 22,389,669    | 16,428,376          | 18,115,846          | 13,367,521               | 10,243,532             | 10,357,626         | 9    |
| 274,316,553   | 741,610,638   | 1,189,163,701 | 1,315,355,791       | 799,742,667         | 576,344,302              | 473,799,955            | 579,343,145        |      |
| 79,214,041    | 95,421,161    | 259,431,110   | 203,417,431         | 177,628,778         | 128,599,321 <sup>6</sup> | 88,288,966             | 90,828,810         | 10   |
| 30,671,908    | 38,657,514    | 61,722,390    | 49,185,558          | 45,995,705          | 24,563,470 <sup>6</sup>  | 15,438,634             | 19,841,877         | 11   |
| 87,916,282    | 96,191,485    | 243,608,342   | 184,761,831         | 130,717,022         | 83,879,362               | 61,214,824             | 79,372,470         | 12   |
| 26,851,936    | 18,277,420    | 57,449,384    | 40,403,096          | 46,042,029          | 32,030,107 <sup>6</sup>  | 20,506,134             | 19,357,987         | 13   |
| 91,968,180    | 92,065,895    | 245,625,703   | 181,196,800         | 193,933,477         | 98,297,622 <sup>6</sup>  | 58,917,834             | 69,126,641         | 14   |
| 27,579,572    | 29,431,592    | 55,651,319    | 47,692,985          | 60,595,034          | 34,802,350 <sup>6</sup>  | 18,095,404             | 20,171,000         | 15   |
| 53,430,475    | 52,490,284    | 206,095,113   | 139,033,940         | 153,578,658         | 102,147,347              | 87,658,005             | 83,396,761         | 16   |
| 12,471,730    | 19,217,505    | 37,887,449    | 28,404,276          | 35,650,772          | 30,731,345               | 25,455,432             | 25,583,675         | 17   |
| 42,620,479    | 65,448,278    | 72,688,072    | 53,232,815          | 62,471,220          | 43,452,980 <sup>6</sup>  | 30,808,511             | 26,119,404         | 18   |
| 452,724,603   | 508,201,134   | 1,240,158,882 | 927,328,732         | 906,612,695         | 578,503,904              | 406,383,744            | 433,798,625        |      |
| 25,400        | 37,434        | 39,363        | 40,352              | 42,282 <sup>6</sup> | 42,411 <sup>6</sup>      | 42,338                 |                    | — 19 |
| 1,528,689,201 | 1,893,125,774 | 2,164,687,636 | 3,506,758,047       | 4,232,022,088       | 4,371,671,762            | 4,390,525,020          |                    | — 20 |
| 37,097,718    | 43,503,459    | 46,793,251    | 42,686,166          | 26,396,812          | 21,099,582               | 19,172,193             |                    | — 21 |
| 79,884,282    | 109,659,088   | 103,131,132   | 122,476,822         | 85,993,206          | 67,722,105               | 63,634,893             |                    | — 22 |
| 188,733,494   | 261,888,654   | 458,008,891   | 493,599,754         | 358,549,382         | 293,390,415              | 270,278,276            |                    | — 23 |
| 131,034,785   | 180,542,259   | 422,681,205   | 389,503,452         | 321,025,588         | 256,668,375              | 233,133,108            |                    | — 24 |
| 1,224         | 1,674         | 1,687         | 1,684               | 1,386               | 1,313                    | 1,305                  |                    | — 25 |
| 111,532,347   | 154,895,584   | 177,187,436   | 215,808,520         | 215,818,096         | 203,312,554              | 200,098,870            |                    | — 26 |
| 426,296,792   | 580,094,167   | 719,305,441   | 748,710,836         | 720,468,361         | 642,831,002              | 585,385,094            |                    | — 27 |
| 1,228,362     | 1,936,674     | 2,282,292     | 3,489,183           | 1,977,441           | 1,509,561                | 1,547,202              |                    | — 28 |
| 20,356,952    | 27,416,285    | 44,536,833    | 51,723,199          | 49,088,310          | 43,339,381               | 39,383,965             |                    | — 29 |
| 12,096,134    | 18,099,906    | 35,945,316    | 36,453,709          | 35,367,068          | 31,516,943               | 27,917,265             |                    | — 30 |
| 304,904       | 263,648       | 230,129       | 197,561             | 126,633             | 44,189                   | 38,493                 | 69,990             | 31   |
| 38,030,353    | 23,583,491    | 9,407,021     | 13,477,663          | 16,189,074          | 17,960,650               | 18,780,489             | 18,069,252         | 32   |
| 11,919,339    | 12,616,927    | 12,516,503    | 22,837,720          | 28,064,762          | 27,003,210               | 25,044,389             | 28,209,947         | 33   |
| 10,377,847    | 12,210,723    | 12,400,226    | 22,817,276          | 26,535,387          | 25,337,081               | 24,722,443             | 27,235,907         | 34   |
| 22,297,186    | 24,827,656    | 24,916,729    | 45,654,996          | 54,600,149          | 52,340,241               | 49,766,832             | 55,445,854         | 35   |
| 13,286,102    | 16,486,778    | 14,828,454    | 14,117,099          | 17,769,690          | 15,216,213               | 12,714,054             | 12,718,566         | 36   |
| 11,846,257    | 16,406,670    | 14,903,447    | 15,474,732          | 18,542,037          | 15,879,943               | 13,791,599             | 14,460,952         | 37   |
| 25,132,359    | 32,893,448    | 29,731,901    | 29,591,831          | 36,311,727          | 31,096,156               | 26,505,653             | 27,179,518         | 38   |
| 34,280,669    | 35,624,074    | 28,567,545    | 41,770,480          | 47,134,652          | 44,912,972               | 41,975,393             | 41,923,543         | 39   |
| 32,347,265    | 33,085,350    | 27,773,668    | 41,117,175          | 47,540,555          | 45,311,899               | 41,100,788             | 41,843,250         | 40   |
| 66,627,934    | 68,709,424    | 56,341,213    | 82,887,655          | 94,675,207          | 90,224,871               | 83,076,181             | 83,766,793         | 41   |
| 8,446         | 10,699        | 11,207        | 10,722              | 9,300               | 9,077                    | 8,844                  |                    | — 42 |
| 33,905        | 38,552        | 41,577        | 42,239 <sup>6</sup> | 43,928              | 43,285                   | 43,268                 |                    | — 43 |
| 302,759       | 548,421       | 902,090       | 1,201,008           | 1,364,200           | 1,261,245                | 1,192,330              |                    | — 44 |
| 21,519        | 123,464       | 465,378       | 836,794             | 1,200,907           | 1,114,503 <sup>1</sup>   | 1,082,957 <sup>1</sup> |                    | — 45 |

<sup>4</sup> The figures for 1934 are subject to revision.    <sup>5</sup> Excluding U.S. lines of Canadian National Telegraphs.<sup>6</sup> Revised since the publication of the 1933 Year Book.



## STATISTICAL SUMMARY OF THE PROGRESS OF CANADA—continued.

|                                                         | Item.                                  | 1871.       | 1881.       | 1891.                   | 1901.                   | 1906.                   |
|---------------------------------------------------------|----------------------------------------|-------------|-------------|-------------------------|-------------------------|-------------------------|
| <b>Post Office—</b>                                     |                                        |             |             |                         |                         |                         |
| 1                                                       | Revenue..... \$                        | 803,637     | 1,344,970   | 2,515,823               | 3,421,192               | 5,993,343               |
| 2                                                       | Expenditure..... \$                    | 994,876     | 1,876,658   | 3,161,676               | 3,837,376               | 4,921,577               |
| 3                                                       | Money orders issued..... \$            | 4,546,434   | 7,725,212   | 12,478,178              | 17,956,258              | 37,355,673              |
| <b>Dominion Finance—</b>                                |                                        |             |             |                         |                         |                         |
| 4                                                       | Customs Revenue..... \$                | 11,841,105  | 18,406,092  | 23,305,218              | 28,293,930              | 46,053,377              |
| 5                                                       | Excise Revenue..... \$                 | 4,295,945   | 5,343,022   | 6,914,850               | 10,318,266              | 14,010,220              |
| 6                                                       | Total Ordinary Revenue..... \$         | 19,335,561  | 29,635,298  | 38,579,311              | 52,514,701              | 80,139,360              |
| 7                                                       | Revenue per head..... \$               | 5-50        | 6-83        | 7-96                    | 9-72                    | 12-99                   |
| 8                                                       | Total Ordinary Expenditure..... \$     | 15,623,082  | 25,502,554  | 36,343,568              | 46,866,368              | 67,240,641              |
| 9                                                       | Expenditure per head..... \$           | 4-44        | 5-88        | 7-50                    | 8-67                    | 10-90                   |
| 10                                                      | Total Disbursements..... \$            | 19,293,478  | 33,796,643  | 40,793,208              | 27,982,866              | 83,277,642              |
| 11                                                      | Disbursements per head..... \$         | 5-48        | 7-79        | 8-42                    | 10-73                   | 13-49                   |
| 12                                                      | Gross Debt..... \$                     | 115,492,683 | 199,861,537 | 289,899,230             | 354,732,433             | 392,269,680             |
| 13                                                      | Assets..... \$                         | 37,786,165  | 44,465,757  | 52,090,199              | 86,252,429              | 125,226,702             |
|                                                         | Net Debt..... \$                       | 77,706,518  | 155,395,780 | 237,809,031             | 268,480,004             | 267,042,978             |
| <b>Provincial Finance—</b>                              |                                        |             |             |                         |                         |                         |
| 14                                                      | Revenue, Ordinary, Totals..... \$      | 5,518,946   | 7,858,698   | 10,693,815              | 14,074,991              | 23,027,122              |
| 15                                                      | Expenditure, Ordinary, Totals..... \$  | 4,935,008   | 8,119,701   | 11,628,353              | 14,146,059              | 21,169,868              |
| <b>Note Circulation—</b>                                |                                        |             |             |                         |                         |                         |
| 16                                                      | Bank Notes..... \$                     | 20,914,637  | 28,516,692  | 33,061,042              | 50,610,205              | 70,638,870              |
| 17                                                      | Dominion Notes..... \$                 | 7,244,341   | 14,539,795  | 16,176,316 <sup>6</sup> | 27,898,509 <sup>6</sup> | 49,941,426 <sup>6</sup> |
| <b>Chartered Banks—</b>                                 |                                        |             |             |                         |                         |                         |
| 18                                                      | Capital, paid-up..... \$               | 37,095,340  | 59,534,977  | 60,700,697              | 67,035,615              | 91,035,604              |
| 19                                                      | Assets..... \$                         | 125,273,031 | 200,613,879 | 269,307,032             | 531,829,324             | 878,512,076             |
| 20                                                      | Liabilities to the public..... \$      | 80,250,974  | 127,176,249 | 137,332,325             | 420,003,743             | 713,790,553             |
| 21                                                      | Deposits payable on demand..... \$     | —           | —           | —                       | 95,169,631              | 165,144,569             |
| 22                                                      | Deposits payable after notice..... \$  | —           | —           | —                       | 221,624,664             | 381,778,705             |
|                                                         | Totals, Deposits <sup>2</sup> ..... \$ | 56,287,391  | 94,346,481  | 148,396,968             | 349,573,327             | 605,968,513             |
| <b>Savings Banks—</b>                                   |                                        |             |             |                         |                         |                         |
| 23                                                      | Deposits in Post Office..... \$        | 2,497,260   | 6,208,227   | 21,738,648              | 39,950,813              | 45,736,488              |
| 24                                                      | Deposits in Government Banks..... \$   | 2,072,037   | 9,628,445   | 17,661,378              | 16,098,144              | 16,174,134              |
| 25                                                      | Deposits in Special Banks..... \$      | 5,766,712   | 7,685,888   | 10,982,232              | 19,125,097              | 27,399,194              |
| <b>Loan Companies<sup>1</sup>—</b>                      |                                        |             |             |                         |                         |                         |
| 26                                                      | Assets..... \$                         | 8,392,464   | 73,906,638  | 125,041,146             | 158,523,307             | 232,076,447             |
| 27                                                      | Liabilities..... \$                    | 8,392,464   | 71,965,017  | 123,915,704             | 158,523,307             | 232,076,447             |
| 28                                                      | Deposits..... \$                       | 2,399,136   | 13,460,268  | 18,482,959              | 20,756,910              | 23,046,194              |
| <b>Trust Companies—</b>                                 |                                        |             |             |                         |                         |                         |
| 29                                                      | Shareholders' assets..... \$           | —           | —           | —                       | —                       | —                       |
| 30                                                      | Trust funds, liabilities..... \$       | —           | —           | —                       | —                       | —                       |
| <b>Dominion Fire Insurance—</b>                         |                                        |             |             |                         |                         |                         |
| 31                                                      | Amount at risk, Dec. 31..... \$        | 228,453,784 | 462,210,968 | 759,602,191             | 1,038,687,619           | 1,443,902,244           |
| 32                                                      | Premium income for year..... \$        | 2,321,716   | 3,827,116   | 6,168,716               | 9,650,348               | 14,687,963              |
| <b>Provincial Fire Insurance—</b>                       |                                        |             |             |                         |                         |                         |
| 33                                                      | Amount at risk, Dec. 31..... \$        | —           | —           | —                       | —                       | —                       |
| 34                                                      | Premium income for year..... \$        | —           | —           | —                       | —                       | —                       |
| <b>Dominion Life Insurance—</b>                         |                                        |             |             |                         |                         |                         |
| 35                                                      | Amount at risk, Dec. 31..... \$        | 45,825,935  | 103,290,932 | 261,475,229             | 463,769,034             | 656,260,900             |
| 36                                                      | Premium income for year..... \$        | 1,852,974   | 3,094,689   | 8,417,702               | 15,189,854              | 22,364,456              |
| <b>Provincial Life Insurance—</b>                       |                                        |             |             |                         |                         |                         |
| 37                                                      | Amount at risk, Dec. 31..... \$        | —           | —           | —                       | —                       | —                       |
| 38                                                      | Premium income for year..... \$        | —           | —           | —                       | —                       | —                       |
| <b>Business Transacted—</b>                             |                                        |             |             |                         |                         |                         |
| 39                                                      | Bank clearings.... Thousands of \$     | —           | —           | 580,644                 | 1,871,062               | 3,950,701               |
| 40                                                      | Bank debits.... Thousands of \$        | —           | —           | —                       | —                       | —                       |
| <b>Education—(Provincially-Controlled Schools only)</b> |                                        |             |             |                         |                         |                         |
| 41                                                      | Enrolment..... No.                     | 803,000     | 891,000     | 993,000                 | 1,092,633 <sup>3</sup>  | 1,173,009               |
| 42                                                      | Average daily attendance..... "        | —           | —           | —                       | 669,000                 | 743,299 <sup>3</sup>    |
| 43                                                      | Number of teachers..... "              | 13,559      | 18,016      | 23,718                  | 27,126                  | 32,250                  |
| 44                                                      | Totals, Public Expenditure on.. \$     | —           | —           | —                       | 11,044,925              | 16,368,244              |

<sup>1</sup> Figures do not include fraternal insurance. <sup>2</sup> Including amounts deposited elsewhere than in Canada from 1901. <sup>3</sup> Including Building Societies and Trust Companies (1871-1911). <sup>4</sup> The figures for 1934 are subject to revision. <sup>5</sup> As at June 30. <sup>6</sup> Active assets only. <sup>7</sup> Included in Post Office savings banks. <sup>8</sup> These figures are for 1924, the first year for which bank debits are available. <sup>9</sup> Revised since the publication of the 1933 Year Book.

## NOTE.

In the foregoing Summary, the statistics of immigration, fisheries (1871-1916), trade, shipping, the Post Office, the public debt, revenue and expenditure and the Post Office and Government savings banks



## STATISTICAL SUMMARY OF THE PROGRESS OF CANADA—concluded.

| 1911.                  | 1916.                  | 1921.                    | 1926.                    | 1931.                      | 1932.         | 1933.         | 1934. <sup>a</sup> |    |
|------------------------|------------------------|--------------------------|--------------------------|----------------------------|---------------|---------------|--------------------|----|
| 9,146,952              | 18,858,410             | 26,331,119               | 31,024,464               | 30,416,106                 | 32,476,604    | 30,825,155    | 30,367,465         | 1  |
| 7,954,223              | 16,009,139             | 24,661,262               | 30,499,686               | 36,292,603                 | 34,448,986    | 30,167,827    | 29,202,730         | 2  |
| 70,614,862             | 94,469,871             | 173,523,322              | 177,840,231              | 167,749,651                | 132,625,260   | 107,767,394   | 107,471,321        | 3  |
| 71,838,089             | 98,649,409             | 163,266,804              | 127,355,143              | 131,208,955                | 104,132,677   | 70,072,932    | 66,305,356         | 4  |
| 16,869,837             | 22,428,492             | 37,118,367               | 42,923,549               | 57,746,808                 | 48,654,862    | 37,833,858    | 35,494,220         | 5  |
| 117,780,409            | 172,147,838            | 434,386,537              | 380,745,506              | 349,587,299                | 329,709,056   | 306,636,990   | 324,062,000        | 6  |
| 16-34                  | 21-42                  | 49-64                    | 40-52                    | 34-32                      | 32-05         | 29-13         | 29-95              | 7  |
| 87,774,198             | 130,350,727            | 361,118,145              | 320,660,479              | 389,558,289                | 375,403,344   | 358,528,270   | 346,648,546        | 8  |
| 12-18                  | 16-22                  | 41-09                    | 33-93                    | 37-55                      | 35-73         | 33-57         | 31-99              | 9  |
| 122,861,250            | 339,702,502            | 528,283,199              | 355,186,423              | 440,008,855                | 450,955,541   | 531,760,983   | 457,968,585        | 10 |
| 17-04                  | 42-27                  | 60-11                    | 37-59                    | 42-41                      | 42-92         | 49-79         | 42-27              | 11 |
| 474,941,487            | 936,987,802            | 2,902,482,117            | 2,768,779,184            | 2,610,265,698              | 2,831,743,563 | 2,996,366,665 | 3,141,042,097      | 12 |
| 134,899,435            | 321,831,631            | 561,603,133 <sup>b</sup> | 379,048,085 <sup>b</sup> | 348,653,762 <sup>b</sup>   | 455,897,390   | 399,885,839   | 411,063,957        | 13 |
| 340,042,052            | 615,156,171            | 2,340,878,934            | 2,389,731,099            | 2,261,611,936              | 2,375,846,172 | 2,596,480,826 | 2,729,978,141      |    |
| 40,706,948             | 50,015,795             | 102,030,458              | 146,450,904              | 179,143,480                | 190,508,122   | 184,877,414   | -                  | 14 |
| 38,144,511             | 53,826,219             | 102,569,515              | 144,183,178              | 190,754,202                | 207,787,560   | 200,528,217   | -                  | 15 |
| 89,982,223             | 126,691,913            | 194,621,710              | 168,885,995              | 141,969,350                | 132,165,942   | 130,362,488   | 135,537,793        | 16 |
| 99,921,354             | 176,816,006            | 271,531,162              | 190,004,824              | 153,079,362                | 165,878,510   | 179,217,446   | 190,261,981        | 17 |
| 103,009,256            | 113,175,353            | 129,096,339              | 116,638,254              | 144,674,853                | 144,500,000   | 144,500,000   | 144,916,667        | 18 |
| 1,303,131,260          | 1,839,286,709          | 2,841,782,078            | 2,864,019,213            | 3,066,018,472              | 2,869,429,779 | 2,831,393,641 | 2,837,919,961      | 19 |
| 1,097,661,393          | 1,596,905,337          | 2,556,454,190            | 2,604,601,786            | 2,741,554,219              | 2,546,149,759 | 2,517,934,260 | 2,548,720,434      | 20 |
| 304,801,755            | 428,717,751            | 551,914,648              | 553,322,935              | 578,604,394                | 486,270,764   | 488,527,864   | 513,973,506        | 21 |
| 568,976,209            | 780,842,383            | 1,289,347,068            | 1,340,559,021            | 1,437,976,749              | 1,376,325,128 | 1,378,497,944 | 1,372,817,869      | 22 |
| 980,433,788            | 1,418,035,429          | 2,264,586,736            | 2,277,192,043            | 2,422,834,826              | 2,256,639,530 | 2,236,841,539 | 2,274,607,936      |    |
| 43,330,579             | 40,008,418             | 29,010,619               | 24,035,669               | 24,750,227                 | 23,919,677    | 23,920,915    | 23,158,919         | 23 |
| 14,673,752             | 13,519,855             | 10,150,189               | 8,794,875                | -                          | -             | -             | -                  | 24 |
| 34,770,386             | 40,405,037             | 58,576,775               | 67,241,344               | 69,820,422                 | 68,663,324    | 68,113,501    | 66,673,219         | 25 |
| 389,701,988            | 70,872,297             | 96,698,810               | 120,321,095              | 147,921,556                | 143,566,386   | 138,560,381   | -                  | 26 |
| 389,701,988            | 70,872,297             | 95,281,122               | 119,455,317              | 146,858,594                | 143,561,635   | 138,532,428   | -                  | 27 |
| 33,742,513             | 8,987,720              | 15,868,926               | 21,316,150               | 30,823,662                 | 29,418,924    | 24,287,270    | -                  | 28 |
| -                      | 7,826,943              | 10,237,930               | 13,195,277               | 15,459,347                 | 15,361,656    | 15,351,418    | -                  | 29 |
| -                      | 47,162,220             | 87,811,965               | 157,756,647              | 256,876,037                | 256,288,804   | 268,232,277   | -                  | 30 |
| 2,279,868,346          | 3,720,058,236          | 6,020,513,832            | 8,051,444,136            | 9,544,641,293              | 9,301,747,991 | 9,008,262,736 | 8,836,602,177      | 31 |
| 20,575,255             | 27,733,852             | 47,312,564               | 52,595,923               | 50,342,669                 | 911,929       | 41,573,986    | 41,493,762         | 32 |
| -                      | 849,915,678            | 1,269,764,435            | 1,286,255,476            | 1,280,923,112              | 1,228,511,133 | 1,130,113,820 | -                  | 33 |
| -                      | 3,902,504              | 5,545,549                | 6,068,701                | 6,848,712                  | 5,318,958     | 4,938,653     | -                  | 34 |
| 950,220,771            | 1,422,179,632          | 2,934,843,848            | 4,610,196,334            | 6,622,267,733 <sup>c</sup> | 6,471,608,546 | 6,247,625,974 | 6,220,102,835      | 35 |
| 31,619,026             | 48,093,105             | 99,015,081               | 160,746,413              | 225,100,571 <sup>c</sup>   | 216,132,957   | 206,954,224   | 202,645,005        | 36 |
| -                      | 348,097,229            | 222,871,178              | 147,821,972              | 202,094,301                | 178,120,314   | 170,794,091   | -                  | 37 |
| -                      | 5,311,003              | 4,389,008                | 3,991,126                | 5,178,615                  | 4,745,111     | 4,500,610     | -                  | 38 |
| 7,346,381              | 10,315,853             | 16,811,287               | 17,715,099               | 16,827,603                 | 12,914,155    | 14,720,611    | 15,963,570         | 39 |
| -                      | -                      | 27,157,474 <sup>d</sup>  | 30,368,034               | 31,586,468                 | 25,844,288    | 29,981,465    | 32,866,673         | 40 |
| 1,361,205 <sup>e</sup> | 1,626,144 <sup>e</sup> | 1,880,805 <sup>e</sup>   | 2,085,473 <sup>e</sup>   | 2,264,106                  | 2,285,925     | -             | -                  | 41 |
| 870,532 <sup>e</sup>   | 1,118,522 <sup>e</sup> | 1,349,256 <sup>e</sup>   | 1,564,830 <sup>e</sup>   | 1,801,955                  | 1,839,823     | -             | -                  | 42 |
| 40,516                 | 50,307                 | 56,607                   | 63,840                   | 71,246                     | 72,986        | 73,241        | -                  | 43 |
| 37,971,374             | 57,362,734             | 112,976,543              | 122,701,259              | 144,748,823                | 133,222,594   | 121,464,641   | -                  | 44 |

relate to the fiscal years ended June 30 up to 1906, and from then on to the years ended Mar. 31. Agricultural, dairying, fisheries (1922-26), mineral, manufacturing, banking, insurance, loan and trust companies statistics relate to the calendar years and railway statistics to the years ended June 30, 1871-1916, and to the calendar years 1921 and 1924-28. Canal statistics are those of the navigation seasons. The telegraph statistics relate to the fiscal years for Government lines and to the calendar years for other lines.

#### ERRATUM.

- P 85. Number of votes polled for Quebec in 1921 should read 779,591 instead of 779,951.

## CHAPTER I.—PHYSIOGRAPHY.

### PART I.—GEOGRAPHICAL FEATURES.\*

**Situation.**—The Dominion of Canada comprises the whole northern half of the North American continent except the United States territory of Alaska, and the Coast of Labrador, a dependency of the Colony of Newfoundland. It also includes the Arctic archipelago between Davis strait and the connecting waters northward to the 60th meridian on the east, and the 141st meridian on the west.

The Dominion is bounded on the west by the Pacific ocean and Alaska; on the south by the 49th parallel, the Great Lakes, the St. Lawrence river and additional lines set out by the Ashburton Treaty, signed Aug. 9, 1842; and on the east by the Atlantic ocean, the gulf of St. Lawrence, the territory of the Coast of Labrador (as defined by the award of the Privy Council, Mar. 1, 1927), and Davis strait. As regards the far north, Canada includes all the lands in the area bounded on the east by a line passing midway between Greenland and Baffin, Devon and Ellesmere islands to the 60th meridian of longitude, following this longitude to the pole, and on the west by the 141st meridian of longitude, following this longitude to the pole. The southernmost point is Middle island in lake Erie, in north latitude  $41^{\circ} 41'$ , while from east to west the Dominion extends from about west longitude  $57^{\circ}$ —at the southernmost point of the boundary with the Coast of Labrador—to west longitude  $141^{\circ}$ , the boundary with Alaska. Canadian territory thus extends over  $84^{\circ}$  of longitude and  $48^{\circ}$  of latitude.

**Area.**—The area of the Dominion is 3,694,863 square miles, a figure which may be compared with that of 3,738,395 square miles for the United States and its dependent territories, 3,776,700 the total area of Europe, 2,974,581 the total area of Australia, 4,277,655 the total area of China inclusive of dependencies, 3,275,510 the area of Brazil, 1,805,252 the area of India, 121,633 the area of the British Isles and 13,318,000 the area of the British Empire. By comparison with the last two figures, Canada is seen to be over 30 times as large as the British Isles and to comprise over 27 p.c. of the total area of the British Empire.

**Political Subdivisions.**—Canada is divided from east to west into the following provinces: the Maritime Provinces of Prince Edward Island, Nova Scotia and New Brunswick, all three comparatively small in area; Quebec, covering a strip south of the St. Lawrence and the whole territory north of the St. Lawrence and east of the Ottawa to Hudson strait, except the territory of the Coast of Labrador; Ontario, extending northward from the Great Lakes to Hudson bay; Manitoba, Saskatchewan and Alberta, the provinces of the interior continental plain, extending from  $49^{\circ}$  to  $60^{\circ}$  north latitude; and British Columbia, the province of the western mountain and Pacific Coast region, also extending from  $49^{\circ}$  to  $60^{\circ}$ . North of the 60th parallel of latitude, the country is divided into the Yukon Territory and the Northwest Territories, the latter area composed of the provisional districts of Mackenzie, Keewatin and Franklin.

*Prince Edward Island.*—This, the smallest province of the Dominion, lies in the southern bend of the gulf of St. Lawrence and is separated from the mainland

\*Revised by F. H. Peters, Director of the Topographical Survey, Department of the Interior, Ottawa, 87473—1

by Northumberland strait. It is about 120 miles in length and, with an average width of 20 miles, covers an area of 2,184 square miles, approximately 200 square miles more than the State of Delaware. The island is almost trisected by the deep indentations of Malpeque bay north of Summerside and by the mouth of the Hillsborough river at Charlottetown, which nearly meets Tracadie bay on the north side. Its rich red soil and red sandstone formations are a distinctive feature, and no point in the island attains a greater altitude than about 450 feet above sea-level. A climate tempered by the surrounding waters of the gulf and yet free from the rigours of Atlantic storms, combined with a fertile soil and sheltered harbours, offers great inducements to the pursuits of agriculture and fishing. The province is noted for its relative predominance in the fox-farming industry, its lobster canneries, and its production of oats and potatoes.

*Nova Scotia*.—The province of Nova Scotia is 381 miles in length by from 50 to 105 miles in width, a long, narrow strip of land lying parallel to the Maine and New Brunswick coast and joined to the latter province by the isthmus of Chignecto. It includes at the north the island of Cape Breton, which is separated from the mainland by the narrow strait of Canso. The total area of the province is 21,068 square miles, a little over 2,000 square miles less than the combined area of Belgium and Holland. Cape Breton island, south of the main entrance to the gulf of St. Lawrence and sheltering Prince Edward island from the Atlantic, is roughly 100 miles in length with an extreme breadth of 87 miles. Its area of 3,970 square miles encloses the salt-water lakes of Bras d'Or, connected with the sea at the north by two natural channels and at the south by the St. Peters ship canal. The ridge of low mountainous country running through the centre of the Nova Scotia mainland, the highest altitude of which is less than 1,500 feet, divides it roughly into two slopes. That facing the Atlantic is generally rocky and open to the sweep of Atlantic storms, but the other, facing the bay of Fundy and Northumberland strait, consists for the most part of fertile plains and river valleys noted for general farming and for fruit-farming districts which produce the famous Nova Scotian apples. The Atlantic coast is deeply indented with numerous excellent harbours many of which provided splendid homes and refuges for the old sail fishing fleets.

*New Brunswick*.—With a total area of 27,985 square miles, New Brunswick may be compared in size to Scotland with its area of 30,405 square miles. The province is very compact and in shape nearly rectangular, with its depth not greatly exceeding its width. The conformation is in general undulating and of low relief. In the southeastern half of the province the ground elevation does not generally exceed 500 feet above sea-level except for a narrow strip in the south which produces the highlands bordering the bay of Fundy east of Saint John. In the northwestern half the ground elevation is in general from 500 to 1,000 feet above sea-level and reaches its greatest elevation of about 2,690 feet in Northumberland county northeast of Grand Falls. The St. John, rising in the sister province of Quebec and the bordering State of Maine, is a river with many distinctive beauties, while its length of nearly 400 miles makes it quite noteworthy as to size. In the northeastern half of the province there are very extensive areas of Crown lands still carrying valuable stands of merchantable timber. While New Brunswick is essentially a part of the mainland, the bay of Chaleur at the north, the gulf of St. Lawrence and Northumberland strait at the east, the bay of Fundy at the south and Passamaquoddy bay at the southwest, provide the province with a very extensive sea-coast. To its southwest is a group of islands belonging to the province, the most important of



which are Grand Manan, Campobello, and the West Isles. New Brunswick has been called the best watered country in the world; numerous rivers provide access to extensive lumbering areas in its interior and to many of the most attractive hunting and fishing resorts in the Dominion.

*Quebec.*—Quebec might with considerable accuracy be included among the Maritime Provinces, for the gulf of St. Lawrence is really a part of the Atlantic, and altogether salt water washes the coasts of the province for a length of over 2,700 miles. Besides including a narrow strip of land between the St. Lawrence and the International and New Brunswick boundaries, Quebec extends northward from the St. Lawrence and Ottawa rivers to Labrador and Hudson strait, covering over 17° of latitude and an area of 594,534 square miles, about 38 p.c. of which lies south of the isotherm of 60°F. mean July temperature.\* The combined areas of France, Germany and Spain are about 2,600 square miles less than the area of Quebec. The conformity of the surface of Quebec is in general that characteristic of the Precambrian rocks, being quite even in general but much diversified by minor hills and hollows. North of the St. Lawrence the land takes the form of a ridge, parallel to the river and rising from sea-level to the Height of Land at an elevation of from 1,000 to 3,000 feet and then descending gently again to the sea-level of Hudson bay to the northwest; but to the northeast the ridge carries its height to end abruptly in the high headlands of Labrador. South of the river, the area is comprised of the St. Lawrence Lowlands between Montreal and Quebec which, rising to the east, produce the highest elevation in the province, of about 4,200 feet, in the Gaspé peninsula. With the exception of the treeless zone extending somewhat south of Ungava bay the whole of the province supports a valuable tree growth varying from the mixed forest in the southwest to the eastern and northern coniferous in the areas of higher latitude. Apart from its importance as the threshold of Canada and the gateway through which ocean vessels must pass on their way to the interior of the continent Quebec is also noted for its natural resources. The extensive timber limits of its northern areas form the basis for the great pulp and paper industry of the present and the future. Its rivers, many of them as yet comparatively unknown, may be harnessed to supply about two-fifths of the electric power available in Canada. Its mineral deposits, particularly those of asbestos, have long been known for their quality and extent, while more recent developments of copper and gold deposits in Rouyn and the neighbouring townships in the western part have brought the province up to third place in mineral production in Canada. The fisheries of the St. Lawrence river and gulf are well known. Agriculturally, the climate and soil of the upper St. Lawrence River valley and the plains of the Eastern Townships are eminently adapted to general farming operations.

*Ontario.*—The province of Ontario is the section of the Dominion contained between the great international lakes and Hudson bay and between the western boundary of Quebec and the eastern limits of Manitoba. Although generally regarded as an inland province, Ontario has a fresh-water shore line on the Great Lakes of more than 2,362 miles and on the north a salt-water shore line of about 680 miles with a tidal port at Moosonee at the southern end of James bay. The southernmost point of Ontario, which is also the southernmost point of the Dominion, is in north latitude 41° 41'—a little further south than the northern boundary of the State of California—and its most northern, in north latitude 56° 48'. The total area comprised within its limits, of which about 82 p.c. lies south of the isotherm of

\*The isotherm of 60° F. mean July temperature is generally considered as the northern limit for the economic production of cereals.

60° F. mean July temperature,\* is 412,582 square miles, of which its fresh-water area of 49,300 square miles forms the unusually large proportion of 12 p.c. The province is over 17,000 square miles greater in area than are France and Germany together, and when compared with the States to the south, Ontario is found to be almost equal in extent to the combined areas of the six New England States, together with New York, New Jersey, Pennsylvania, Ohio, Indiana, Illinois, Michigan and Wisconsin. Excepting in the southwestern part, the surface conformity of Ontario is influenced by the characteristics of the Precambrian rocks. In northern Ontario a large area with elevations of 1,000 feet or over adjoins the north shore of the Great Lakes and going north a short distance over the Height of Land the slope descends very gently to Hudson bay, which has a wide marginal strip less than 500 feet above sea-level. The highest point in Ontario is 2,120 feet, on the promontory at the northeastern corner of lake Superior. The whole province supports a valuable covering of trees, varying from south to north, from the mixed forest to the eastern and northern coniferous. Many varieties of climate and soil are encountered, from the distinctively southern conditions found along the shores of lake Erie to the very different ones of Hudson and James bays. Ontario, of all the provinces of Canada, is the centre of the country's manufacturing life, owing to its abundant water-power resources and its proximity to the coal fields of Pennsylvania, but the many resources of its rural districts are not on this account neglected. Mining is an important industry in the Sudbury, Porcupine, and Kirkland Lake districts, the nickel coming from the Sudbury field amounting to 90 p.c. of the world production, while as regards gold production the province ranks first in Canada. Fruit farming in the Niagara district and general farming throughout the entire southern part of the province are carried on extensively under unusually favourable conditions, while timber, pulp and furs are among the most important products of more northern parts.

*Manitoba.*—Manitoba, the most easterly of the Prairie Provinces, and also the oldest of them in point of settlement, includes the area between Ontario on the east and Saskatchewan on the west. Its southerly limit is the International Boundary, while its northerly boundary is the 60th parallel of latitude and Hudson bay, where its coast of over 400 miles includes the harbour and port of Churchill. The total area of Manitoba, of which about 56 p.c. lies south of the isotherm of 60° F. mean July temperature,\* is 246,512 square miles—3,246 square miles greater than twice the total area of the British Isles. The conformity of the surface of Manitoba is quite even; commencing on the north with a strip bordering on Hudson bay perhaps 100 miles wide and less than 500 feet in elevation, the surface rises gradually towards the west and south. The bulk of the province has an elevation of between 500 and 1,000 feet, with the greatest height of 2,727 feet attained in Duck mountain, northwest of lake Dauphin. East and north of lake Winnipeg the Precambrian formation intrudes, producing a rock formation, but the remainder of the province is overlain by very fertile soil of great depth. The treeless prairie belt extends into the southwest corner of the province, but the greater portion of the developed area is in the grove belt, characterized by groves of poplar interspersed with open prairie patches; to the north there are great areas of northern mixed forest, blending into the northern coniferous, which thin again to some treeless areas along the coast line farther north. The province has been regarded as typically agricultural, its southern lands being specially adapted to this form of industry. Its northern districts, however, are of importance in the production of timber and also contain large mineral

\*See footnote, p. 3.

deposits particularly of copper-gold ore. About three-fifths of the area of this province is underlain by the Precambrian rocks which have been found so rich in minerals in northern Ontario and northern Quebec.

*Saskatchewan.*—This central prairie province lies between Manitoba and Alberta; it reaches to the International Boundary on the south and its northerly limit is the 60th parallel of latitude, which divides it from the Northwest Territories. The area, of which about 89 p.c. lies south of the isotherm of 60°F. mean July temperature,\* is 251,700 square miles, approximating that of Manitoba, and greater by 5,000 square miles than the combined areas of the British Isles and Norway. With the exception of a point of the Precambrian rocks jutting in from the east at the Height of Land, well to the north, and again covering a narrow strip along the northern boundary, the whole of the province is overlain by generally fertile soil of great depth. The greater part of the developed area in the south is comprised in the great treeless prairie belt, fringed to the north with a zone of poplar, interspersed with open prairie, which gradually changes into the northern mixed forest covering all the northerly parts. Apart from the southern prairies, which are extraordinarily smooth, the surface topography is generally of low relief and with a general rising slope towards the west. The bulk of the province has a general elevation of between 1,000 and 2,000 feet, with the maximum elevation of about 4,500 feet on the eastern point of the Cypress hills in the southwest corner. The climate is quite different from that of Eastern Canada, with less precipitation and perhaps slightly more severe features than are encountered in many other parts of the country, but is nevertheless most favourable to plant and animal growth. The northern districts, abundantly watered by lakes and rivers, are rich in timber resources and have prospective mineral wealth, while the southern plains include a large portion of the wonderful western wheat fields.

*Alberta.*—Lying between Saskatchewan on the east, and the Rocky mountains and the 120th meridian on the west, and bounded on the north and south by the Northwest Territories and the United States respectively, is the province of Alberta. Its area is slightly greater than that of Saskatchewan or Manitoba, comprising a total of 255,285 square miles, of which about 90 p.c. lies south of the isotherm of 60°F. mean July temperature.\* The area of the province is over 8,600 square miles greater than the combined areas of the British Isles and Norway. Like Saskatchewan, the southern part of the province is comprised in the dry treeless prairie belt, changing to the north into a zone of poplar interspersed with open prairie, which again gives way to the northern mixed forest covering the northerly parts. The Precambrian rocks just touch Alberta at its northeast corner, so that excepting the fringe of mountainous country on its western border the whole of the province is overlain by arable soil of great depth. Alberta has two marked features: (1) the great valley of the Peace river, which has already resulted in the extension of settlement farther north than in any other part of Canada, and (2) the wonderful grazing lands in the foothills district, which, rising sharply on the west, commences the ascent which continues to the very peaks of the Rocky mountains. The southern half of the province, rising toward the west, lies at a general elevation of from 2,000 to 4,000 feet; but in the northern half the slope descends until elevations of well under 1,000 feet are reached at lake Athabaska in the northeast corner. Mount Columbia, with an elevation of 12,294 feet, is the highest point in the province. Considerable coal and oil-mining are carried on, lumbering is important in the more mountainous western parts and in the north, while some ranching is still pursued in

\*See footnote, p. 3.



the less populous sections. The climate of Alberta is a particularly pleasant one, cooler in summer than more eastern parts of the country and tempered in winter by the "Chinook" winds.

*British Columbia.*—British Columbia, the most westerly province of the Dominion, comprises an area of 366,255 square miles, slightly more than three times the area of the British Isles. The predominant feature of the province is the parallel ranges of mountains which cover all of it except the northeast corner and produce a conformation characterized by high mountain ranges interspaced with valleys, many of which are extremely fertile, with climatic conditions well adapted to mixed agriculture or fruit growing. Apart from the smoother area in the northeast corner which extends up from the "Peace River Block" there is another notably large area of smoother terrain in the Stuart Lake district traversed by the Canadian National Railways running west from Fort George to Prince Rupert. The highest point in the province is Mount Fairweather (15,287 feet). The shore line of the Pacific is deeply indented with many inlets ideal for harbourage and with wonderful scenic aspects. With two ocean ports served by transcontinental railways British Columbia is well situated and equipped to carry on trade with the Orient, while its great stands of fir, spruce and cedar timber constitute a natural resource of great value. The province includes many islands of the Pacific, notably the Queen Charlotte group and Vancouver island; the latter, with an area of about 12,408 square miles, is noted for its temperate climate and abundant natural resources. The mines, timber, fisheries and agricultural resources of the province are remarkable for their quality and extent. The boundaries of the province extend from Alberta on the east to the Pacific ocean and Alaska on the west, and from the International Boundary northward to Yukon.

*Yukon and Northwest Territories.*—The vast area of 1,516,758 square miles is included within the boundaries of Canada's northern subdivisions, the Yukon Territory and the three provisional districts of the Northwest Territories. This is over twelve times the area of the British Isles, nearly half the area of the United States, and more than the combined areas of the Argentine Republic and Chile in South America. The northern territories are as yet, in parts, unexplored and excepting the main through water routes are still in many places unmapped in any accurate way. The territories are known to include mighty rivers like the Mackenzie and the Yukon and great inland bodies of water such as Great Slave and Great Bear lakes; but with the present paucity of accurate knowledge the potentialities of this great area are at present unknown. The many general indications of mineral wealth in the country together with the recent mineral discoveries in the Great Bear Lake-Coppermine River area suggest that the future may well reproduce the great gold rush to Yukon in 1897. Because a large portion lies within the Arctic circle the tendency has been to associate with the Northwest Territories thoughts of ice and snow, but as our knowledge is increased the argument steadily gains more weight that what have been regarded in the past as the great 'barren lands' of the north are more appropriately described as our great northern prairies. The opening of the port of Churchill, making the Hudson Bay coast of the district of Keewatin readily approachable, adds considerably to the transportation facilities, which previously have been confined to a regular steamboat summer route down the Mackenzie river. In the future it is likely that travel and transport by air will have a great influence in the further development of these territories, while a net of established radio stations already brings a large area within the realm of quick



communication. The production of minerals in Yukon in 1933 was valued at \$2,041,223, while the value of the production of furs in the Northwest Territories and Yukon in the 1932-33 season was \$1,241,281.

**Summary of Land and Water Area.**—The total land and fresh-water area of the Dominion, together with its distribution by provinces and territories, is shown in Table 1.

**1.—Land and Fresh-Water Area of Canada, by Provinces and Territories, as in 1934.<sup>1</sup>**

| Province or Territory.    | Land. <sup>2</sup> | Fresh Water. <sup>2</sup> | Total. <sup>2</sup> | Per cent of Total Area. |
|---------------------------|--------------------|---------------------------|---------------------|-------------------------|
|                           | sq. miles.         | sq. miles.                | sq. miles.          |                         |
| Prince Edward Island..... | 2,184              | —                         | 2,184               | 0.1                     |
| Nova Scotia.....          | 20,743             | 325                       | 21,068              | 0.6                     |
| New Brunswick.....        | 27,710             | 275                       | 27,985              | 0.8                     |
| Quebec.....               | 523,534            | 71,000                    | 594,534             | 16.1                    |
| Ontario.....              | 363,282            | 49,300                    | 412,582             | 11.1                    |
| Manitoba.....             | 219,723            | 26,789                    | 246,512             | 6.7                     |
| Saskatchewan.....         | 237,975            | 13,725                    | 251,700             | 6.8                     |
| Alberta.....              | 248,800            | 6,485                     | 255,285             | 6.9                     |
| British Columbia.....     | 359,279            | 6,976                     | 366,255             | 9.9                     |
| Yukon.....                | 205,346            | 1,730                     | 207,076             | 5.6                     |
| Northwest Territories—    |                    |                           |                     |                         |
| Franklin.....             | 546,532            | 7,500                     | 554,032             | 15.0                    |
| Keewatin.....             | 218,460            | 9,700                     | 228,160             | 6.2                     |
| Mackenzie.....            | 493,225            | 34,265                    | 527,490             | 14.2                    |
| <b>Canada.....</b>        | <b>3,466,793</b>   | <b>228,070</b>            | <b>3,694,863</b>    | <b>100.0</b>            |

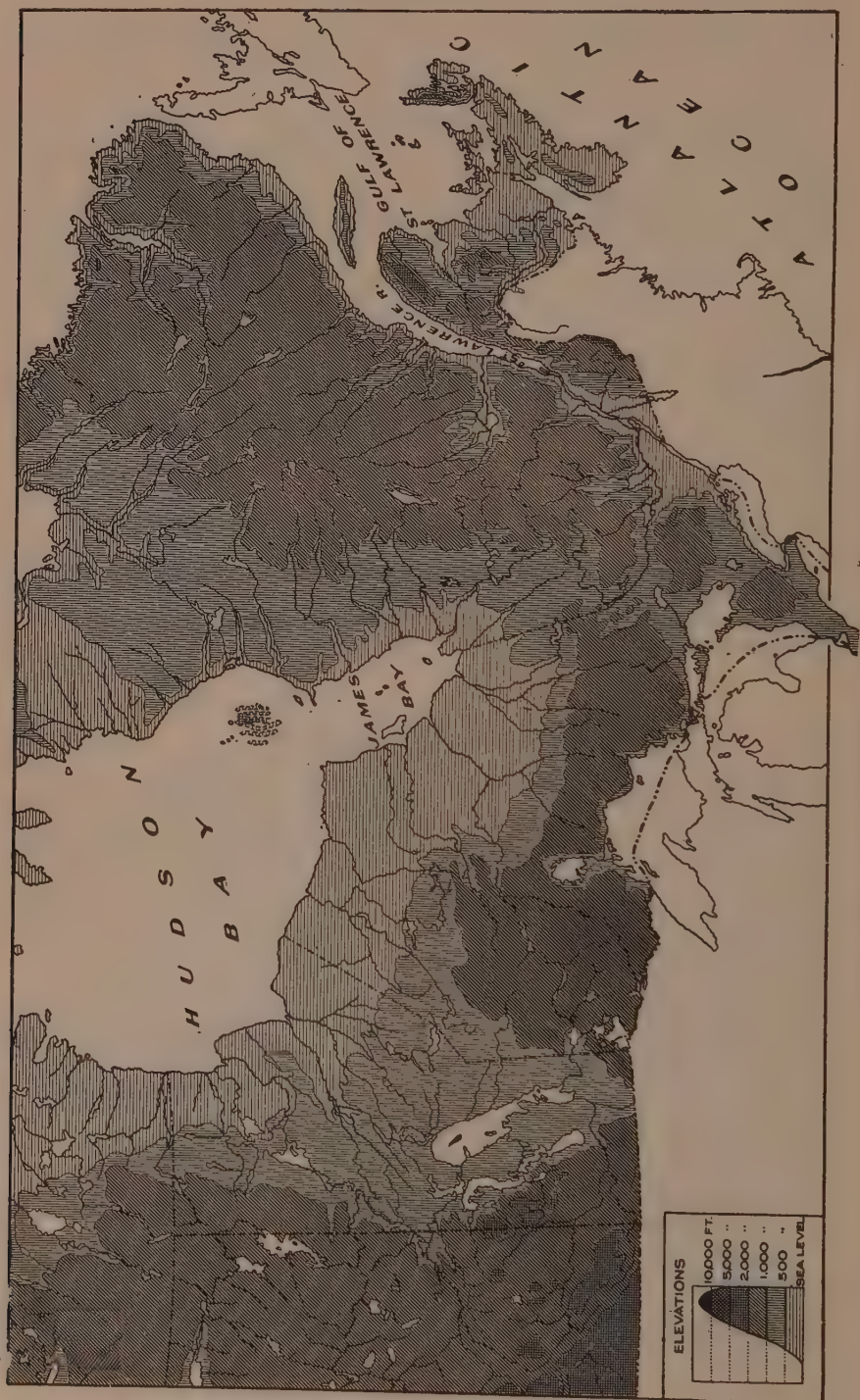
<sup>1</sup>The salt-water areas of Canada are excluded.    <sup>2</sup>Approximate.

## Section 1.—Orography.

The conformation of the present surface of the North American continent admits of its apportionment, in Canada, into several orographic divisions. The exposed surface of the old Precambrian continent forms one of the largest divisions and has been called the Canadian Shield, the Archaean Peneplain and in its southern portion, the Laurentian Highland. The mountainous country of the west constitutes the Cordilleras, while the mountains of eastern United States, in their continuation across the border, form the Appalachian Highland of Eastern Canada. The Great Plains, with various subdivisions, occupy the area between the mountainous area of the west and the great roughened surface of the Canadian Shield. The St. Lawrence Lowlands lie between the Laurentian and Appalachian Highlands. Within the borders of the Canadian Shield an area on the southern margin of Hudson bay has been referred to as the "clay belt". It occupies a part of the basin that during the glacial period was submerged and covered with a coating of clay which smoothed over its inequalities and concealed most of the underlying rocks. Since its emergence the surface has been but slightly altered by drainage channels cut across it.

Orographical maps of Eastern and Western Canada, showing elevations above sea-level, will be found on pp. 8 and 10 of this volume.

**Canadian Shield.**—The portion of the Precambrian continent whose exposed surface still forms a large part of Canada has an area of about two and a half million square miles. Its northern border crosses the Arctic archipelago and the eastern lies beyond Baffin island and Labrador and reaches the depressed area occupied by



OROGRAPHY OF EASTERN CANADA AND LABRADOR.

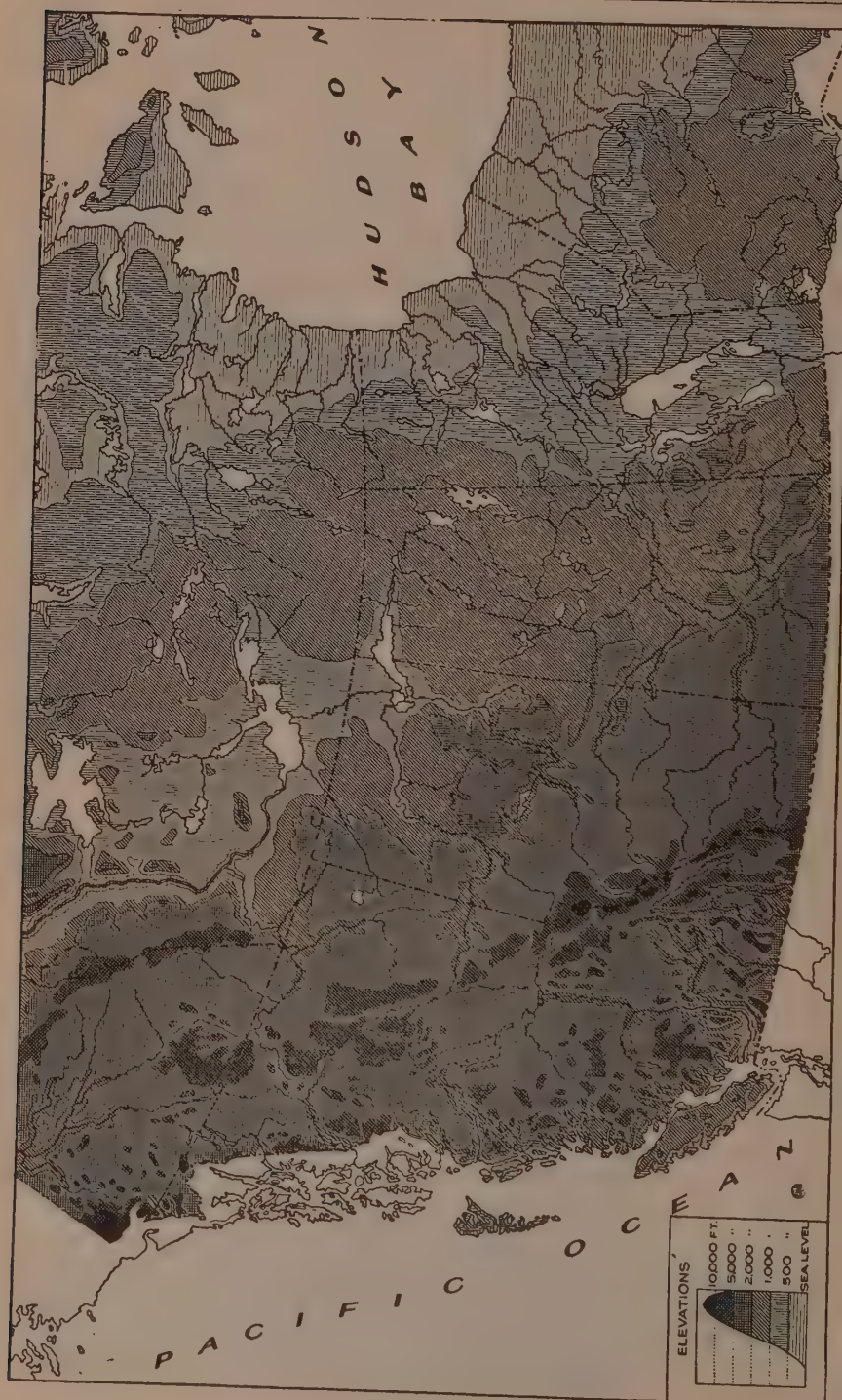
the St. Lawrence river, a short spur or point crossing this valley at the outlet of lake Ontario to join the Adirondack mountains in New York. The southern boundary runs from this spur west to Georgian bay, skirts the north shore of lake Huron and sweeps almost around the ancient depressed area occupied by lake Superior. The western edge, from the lake of the Woods and lake Winnipeg, bears northwest to the western end of lake Athabaska, and passes through the basins occupied by Great Slave and Great Bear lakes, reaching the Arctic ocean east of the Mackenzie River delta. In detail, the surface features of the Canadian Shield are irregular, but, viewed broadly, it has the conformation of a great plain, depressed toward the centre and in the north and slightly elevated along the eastern and southern borders where it presents a rather steep outward slope. The general elevation in the eastern portion is under 2,000 feet and over the larger part of the plain is about 1,000 feet. The highest portion is along the northeastern margin, where it presents a steep face to the sea, rising to a maximum altitude of about 5,500 feet.

**Appalachian Region.**—The continuation of the Green mountains of Vermont into Canada may be traced in the Notre Dame mountains, which approach the St. Lawrence northeast of Quebec and, continuing with more easterly trend, form the highland of the Gaspé peninsula. Over a large part of the region, these hills hardly attain the dignity of mountains, but peaks rising more than 3,500 feet above the nearby coast are found in the Gaspé peninsula. The continuation of the White mountains of New Hampshire is found in the highlands of Maine and New Brunswick, the continuity being shown quite plainly by the rock-folding and other evidences of the great earth movements which caused the topography. An additional ridge apparently forms the present province of Nova Scotia, and although the highlands of that province do not attain elevations of even 1,500 feet, the rock structure indicates that it was a mountainous country at no very remote geological period.

**St. Lawrence Lowlands.**—The southern interior of the continent consists of a plain of low relief, bordered on the east by the Appalachian mountains, on the west by the Cordilleran Mountain systems, and on the north by the Laurentian plateau. This plain, in its Canadian portion, is known as the St. Lawrence Lowlands, and extends from a short distance below Quebec city to lake Huron, south of Georgian bay, having a length of 600 miles and an area of 35,000 square miles. To the northeast it becomes reduced in width, and in the vicinity of Quebec is represented by a narrow plateau or shelf on each side of the St. Lawrence river.

**Great Plains.**—A great area, including diverse features, lies to the east of the Cordilleras. The portion that is included under the term Great Plains extends from the southwestern edge of the ancient surface, forming the Canadian Shield, to the eastern edge of the mountainous region of the Cordilleras. This area is characteristically different from other parts of Canada in that any exposure of surface rock is rare. Generally, it is overlain by great depths of soil, through which the streams have cut themselves down into deep coulees and the rivers into deep wide valleys. Lakes of any considerable extent are infrequent and usually quite shallow; in the dry prairie section there are many places where the absorption from the broad and shallow bodies of water is so great that they have little or no outflowage and consequently the concentration of mineral salts in the water makes it unfit for domestic use. The terrain is generally smooth or gently undulating and with elevations of from 600 to 3,500 feet has a general upward slope toward the south and west where, rising more sharply in the foothills, the real ascent to the high mountains commences.







**Cordilleran Region.**—The western part of the American continent is more or less mountainous. The Andean chain, which extends throughout the length of South America and broadens out in the United States has, in Canada, an average width of about 475 miles. This region, covering about 530,000 square miles, is the most elevated in the Dominion, many of the summits reaching heights of 10,000 feet, with occasional peaks over 13,000 feet above sea-level. The mountainous tract forming the Cordilleras can be divided broadly into three parallel bands: a series of plateaus and mountains, comprised in the Columbia, Interior, Cassiar, and Yukon systems, forming the central part, referred to as the Central Belt; another series of parallel ridges east of the central plateaus, formed of fault rocks and folds and including the Rocky and Arctic systems, known as the Eastern Belt; and a third division between the plateau country and the Pacific, composed of the Pacific and Insular systems, called the Western Belt.

Table 2 shows the principal named Canadian Cordilleran peaks exceeding 11,000 feet in elevation.

**2.—Mountain Peaks over 11,000 Feet in Elevation, with Latitude and Longitude.**

NOTE.—The highest mountain in Eastern Canada, with the exception of the Torngats in Labrador peaks of which rise to about 5,500 feet, is Tabletop mountain (recently re-named Mount Jacques Cartier by the Geographic Board of Canada) in N. lat. 48° 59', W. long. 65° 56', Gaspé district, Quebec, the summit of which is 4,160 feet above sea-level.

| Province and Mountain Peak.    | Elevation.       | N. Lat. | W. Long. | Range.     |
|--------------------------------|------------------|---------|----------|------------|
|                                | ft.              | ° '     | ° '      |            |
| <b>Alberta—</b>                |                  |         |          |            |
| Alberta.....                   | 11,874           | 52 14   | 117 36   | Rocky Mts. |
| Alexandra <sup>1</sup> .....   | 11,214           | 51 59   | 117 12   | "          |
| Assiniboine <sup>1</sup> ..... | 11,870           | 50 56   | 115 42   | "          |
| Athabaska.....                 | 11,452           | 52 07   | 117 11   | "          |
| Coleman.....                   | 11,000           | 52 06   | 116 55   | "          |
| Columbia <sup>1</sup> .....    | 12,294           | 52 09   | 117 27   | "          |
| Deltaform <sup>1</sup> .....   | 11,235           | 51 18   | 116 15   | "          |
| Diadem.....                    | 11,060           | 52 19   | 117 00   | "          |
| Forbes.....                    | 11,902           | 51 48   | 116 56   | "          |
| Fryatt.....                    | 11,026           | 52 33   | 117 54   | "          |
| Hector.....                    | 11,135           | 51 34   | 116 15   | "          |
| Hungabee <sup>1</sup> .....    | 11,457           | 51 20   | 116 17   | "          |
| Joffre <sup>1</sup> .....      | 11,316           | 50 32   | 115 12   | "          |
| King Edward <sup>1</sup> ..... | 11,400           | 52 10   | 117 30   | "          |
| Kitchener.....                 | 11,500           | 52 13   | 117 19   | "          |
| Lyell <sup>1</sup> .....       | 11,495           | 51 58   | 117 06   | "          |
| Lefroy <sup>1</sup> .....      | 11,230           | 51 22   | 116 17   | "          |
| Lunette <sup>1</sup> .....     | 11,150           | 50 52   | 115 39   | "          |
| Sir Douglas <sup>1</sup> ..... | 11,174           | 50 43   | 115 20   | "          |
| Snow Dome <sup>1</sup> .....   | 11,340           | 52 11   | 117 19   | "          |
| Stutfield.....                 | 11,320           | 52 15   | 117 29   | "          |
| Temple.....                    | 11,636           | 51 21   | 116 15   | "          |
| The Twins.....                 | 11,675<br>12,085 | 52 13   | 117 12   | "          |
| Victoria <sup>1</sup> .....    | 11,365           | 51 23   | 116 18   | "          |
| Wilson.....                    | 11,000           | 51 58   | 116 45   | "          |
| Woolley.....                   | 11,170           | 52 18   | 117 25   | "          |

<sup>1</sup>This peak is on the interprovincial boundary between Alberta and British Columbia.

## 2.—Mountain Peaks over 11,000 Feet in Elevation, with Latitude and Longitude—con.

| Province and Mountain Peak.    | Elevation. | N. Lat. | W. Long. | Range.         |
|--------------------------------|------------|---------|----------|----------------|
|                                | ft.        | ° ' "   | ° ' "    |                |
| <b>British Columbia—</b>       |            |         |          |                |
| Bush.....                      | 11,000     | 54 00   | 120 15   | Rocky Mts.     |
| Bryce.....                     | 11,507     | 52 03   | 117 20   | "              |
| Clemenceau.....                | 12,001     | —       | —        | "              |
| Chown.....                     | 11,500     | 53 26   | 119 26   | "              |
| Delphine.....                  | 11,076     | 50 28   | 116 25   | Selkirk Mts.   |
| Fairweather <sup>1</sup> ..... | 15,287     | 58 54   | 137 31   | St. Elias Mts. |
| Farnham.....                   | 11,342     | 50 29   | 116 27   | Selkirk Mts.   |
| Goodsir.....                   | 11,676     | 51 12   | 116 24   | Rocky Mts.     |
| Hasler.....                    | 11,113     | 51 09   | 117 25   | Selkirk Mts.   |
| Huber.....                     | 11,051     | 51 22   | 116 18   | "              |
| Jumbo.....                     | 11,217     | 50 24   | 116 32   | Rocky Mts.     |
| King George.....               | 11,226     | 50 36   | 115 24   | "              |
| Resplendent.....               | 11,240     | 53 05   | 119 07   | "              |
| Robson.....                    | 12,972     | 53 07   | 119 03   | "              |
| Root.....                      | 12,860     | 58 59   | 137 30   | St. Elias Mts. |
| Selwyn.....                    | 11,013     | 51 09   | 117 24   | Selkirk Mts.   |
| Sir Alexander.....             | 11,000     | 54 00   | 120 15   | Rocky Mts.     |
| Sir Sandford.....              | 11,590     | 51 39   | 117 52   | Selkirk Mts.   |
| The Helmet.....                | 11,160     | 51 11   | 116 20   | Rocky Mts.     |
| Waddington.....                | 13,260     | 51 23   | 125 16   | Coast Mts.     |
| Whitehorn.....                 | 11,101     | 53 08   | 119 16   | Rocky Mts.     |
| <b>Yukon—<sup>2</sup></b>      |            |         |          |                |
| Alverstone.....                | 14,500     | 60 21   | 139 02   | St. Elias Mts. |
| Augusta.....                   | 14,070     | 60 18   | 140 28   | "              |
| Baird.....                     | 11,375     | 60 19   | 140 31   | "              |
| Badham.....                    | 12,625     | 60 38   | 139 47   | "              |
| Cook.....                      | 13,760     | 60 10   | 139 59   | "              |
| Craig.....                     | 13,250     | —       | —        | "              |
| Hubbard.....                   | 14,950     | 61 16   | 140 53   | "              |
| Jeannette.....                 | 11,700     | 60 20   | 140 43   | "              |
| King.....                      | 17,130     | 60 35   | 140 39   | "              |
| Logan.....                     | 19,850     | 60 35   | 140 21   | "              |
| Lucania.....                   | 17,150     | 61 01   | 140 28   | "              |
| Malaspina.....                 | 12,150     | 60 19   | 140 34   | "              |
| McArthur.....                  | 14,400     | 60 36   | 140 13   | "              |
| Newton.....                    | 13,811     | 60 19   | 140 52   | "              |
| St. Elias.....                 | 18,008     | 60 18   | 140 57   | "              |
| Steele.....                    | 16,644     | 61 06   | 140 19   | "              |
| Strickland.....                | 13,818     | 61 14   | 140 45   | "              |
| Vancouver.....                 | 15,696     | 60 21   | 139 42   | "              |
| Walsh.....                     | 14,498     | 61 00   | 140 00   | "              |
| Wood.....                      | 15,885     | 61 14   | 140 31   | "              |

<sup>1</sup>This peak is on the international boundary between British Columbia and Alaska.<sup>2</sup>The enumerated peaks in Yukon are on or near the Yukon-Alaska Boundary.

## Section 2.—Rivers and Lakes.

**General.**—The waterways of Canada constitute not only one of its most remarkable geographic features, but one of the most vital elements of its national existence. The fresh-water area of 228,070 square miles is unusually large, constituting over 6 p.c. of the total area of the country. The Great Lakes, with the St. Lawrence river, form the most important system of waterways on the continent and one of the most notable fresh-water transportation routes in the world. Their value in facilitating the cheap and speedy shipment of grain from the Prairie Provinces cannot be overestimated. These lakes never freeze over, but usually most of their harbours are closed by ice about the middle of December and remain frozen over until the end of March or the beginning of April.

**Drainage Basins.**—The great drainage basins of Canada are the Atlantic (524,900 square miles), the Hudson Bay (1,486,000 square miles), the Pacific (387,300 square miles), the Arctic (1,290,000 square miles) and the Gulf of Mexico (12,365 square miles). Table 3 indicates the drainage areas of the more important rivers.

## 3.—Drainage Basins of Canada.

NOTE.—Owing to overlapping and to the fact that minor basins are omitted, the totals of each drainage basin do not represent an addition of the drainage areas as given. Tributaries and sub-tributaries are indicated by indentation of the names. The Gulf of Mexico basin is that part of the southern area of the Prairie Provinces drained by the Missouri and Mississippi rivers and their tributaries.

| Drainage Basin.          | Area Drained.  | Drainage Basin.                    | Area Drained.       |
|--------------------------|----------------|------------------------------------|---------------------|
|                          | sq. miles.     |                                    | sq. miles.          |
| <b>Atlantic Basin.</b>   |                | <b>Hudson Bay Basin—concluded.</b> |                     |
| Miramichi.....           | 5,400          | Churchill.....                     | 115,500             |
| St. John.....            | 21,500         | Kazan.....                         | 32,700              |
| St. Lawrence.....        | 309,500        | Dubawnt.....                       | 58,500              |
| Saguenay.....            | 35,900         | <b>Total.....</b>                  | <b>1,486,000</b>    |
| St. Maurice.....         | 16,200         | <b>Pacific Basin.</b>              |                     |
| French.....              | 8,000          | Yukon.....                         | 145,800             |
| Nipigon.....             | 9,000          | Porcupine.....                     | 24,600              |
| Ottawa.....              | 56,700         | Stewart.....                       | 21,900              |
| du Lièvre.....           | 3,500          | Pelly.....                         | 21,300              |
| Gatineau.....            | 9,100          | Lewes.....                         | 35,100              |
| <b>Total.....</b>        | <b>524,900</b> | White.....                         | 15,000              |
| <b>Hudson Bay Basin.</b> |                | Alsek.....                         | 11,200              |
| Koksoak.....             | 62,400         | Taku.....                          | 5,572 <sup>1</sup>  |
| George.....              | 20,000         | Stikine.....                       | 20,625 <sup>1</sup> |
| Big.....                 | 26,300         | Nass.....                          | 7,788 <sup>1</sup>  |
| Eastmain.....            | 25,500         | Skeena.....                        | 20,395 <sup>1</sup> |
| Rupert.....              | 15,700         | Fraser.....                        | 89,765 <sup>1</sup> |
| Broadback.....           | 9,800          | Thompson.....                      | 22,162 <sup>1</sup> |
| Nottaway.....            | 29,800         | Nechako.....                       | 18,975 <sup>1</sup> |
| Moose.....               | 42,100         | West Road (Blackwater).....        | 4,578 <sup>1</sup>  |
| Abitibi.....             | 11,300         | Quesnel.....                       | 4,659 <sup>1</sup>  |
| Missinabi.....           | 10,600         | Chilcotin.....                     | 7,622 <sup>1</sup>  |
| Albany.....              | 59,800         | Columbia.....                      | 39,722 <sup>1</sup> |
| Kenogami.....            | 20,700         | Kootenay.....                      | 14,509 <sup>1</sup> |
| Attawapiskat.....        | 18,700         | Okanagan.....                      | 5,998 <sup>1</sup>  |
| Winisk.....              | 24,100         | Kettle.....                        | 3,133 <sup>1</sup>  |
| Seyern.....              | 38,600         | Pend d'Oreille.....                | 540 <sup>1</sup>    |
| Hayes.....               | 28,000         | Flathead.....                      | 620 <sup>1</sup>    |
| Nelson.....              | 370,800        | <b>Total.....</b>                  | <b>387,300</b>      |
| Winnipeg.....            | 44,000         | <b>Arctic Basin.</b>               |                     |
| English.....             | 20,600         | Back.....                          | 47,500              |
| Red.....                 | 63,400         | Coppermine.....                    | 29,100              |
| Assiniboine.....         | 52,600         | Mackenzie.....                     | 682,000             |
| Saskatchewan.....        | 158,800        | Liard.....                         | 100,700             |
| North Saskatchewan.....  | 54,700         | Hay.....                           | 25,700              |
| South Saskatchewan.....  | 65,500         | Peace.....                         | 117,100             |
| Red Deer.....            | 18,300         | Atnabaska.....                     | 58,900              |
| Bow.....                 | 11,100         | <b>Total.....</b>                  | <b>1,290,000</b>    |
| Belly.....               | 8,900          | <b>Gulf of Mexico Basin.....</b>   |                     |
|                          |                |                                    | <b>12,365</b>       |

<sup>1</sup> Added or revised since the publication of the 1933 Year Book.

**The St. Lawrence River System.**—Most important of the lakes and rivers of Canada is the chain of the Great Lakes with their connecting rivers, the St. Lawrence river and its tributaries. This chain is called the St. Lawrence River system. The Great Lakes, separating the province of Ontario from the United States and connected by a series of canals with the St. Lawrence river, allow vessels to proceed from the Atlantic ocean to the interior of the Dominion as far as Fort William and Port Arthur, twin cities situated on lake Superior, practically half way across the continent. The present waterway provides a draught of 30 feet as far as Montreal, 14 feet through the remainder of the St. Lawrence river and 20 feet on the Great Lakes.

**Other River Systems.**—Apart from the St. Lawrence, the great waterway of the eastern half of the Dominion, other systems also merit some attention. The Saskatchewan river, for example, flowing eastward from the Rocky mountains to lake Winnipeg and thence northward by the Nelson river into Hudson bay, drains a great part of the plains of the western provinces. In the north, the Mackenzie river, with its tributaries the Slave, Liard, Athabaska and Peace rivers, follows the northerly slope of the Great Plain and empties into the Arctic ocean, its waters having traversed in all a distance of 2,514 miles. The Yukon river, after draining a

great part of the Yukon Territory, flows northward through Alaska into the Behring sea after a course of 1,765 miles. The Fraser, Columbia, Skeena and Stikine rivers flow into the Pacific ocean after draining the western slopes of the mountains of British Columbia. Table 4 gives the lengths of the principal rivers with their tributaries, classified according to the course taken by their waters.

#### 4.—Lengths of Principal Rivers and Tributaries in Canada.

NOTE.—In this table the tributaries and sub-tributaries are indicated by indentation of the names. Thus the Ottawa and other rivers are shown as tributary to the St. Lawrence, and the Gatineau and other rivers as tributary to the Ottawa.

| River.                                          | Miles. | River.                                         | Miles.           |
|-------------------------------------------------|--------|------------------------------------------------|------------------|
| <b>Flowing into the Atlantic Ocean.</b>         |        | <b>Flowing into Hudson Bay—concluded.</b>      |                  |
| Natashkwan (to Labrador boundary).....          | 160    | Albany (to head of Cat river).....             | 610              |
| Romaine.....                                    | 270    | Moose (to head of Mattagami).....              | 340              |
| Moisie.....                                     | 210    | Mattagami.....                                 | 275              |
| Marguerite.....                                 | 130    | Abitibi.....                                   | 340              |
| St. John.....                                   | 399    | Missinaibi.....                                | 265              |
| Miramichi.....                                  | 135    | Harricanaw.....                                | 250              |
| St. Lawrence (to head of St. Louis, Minn.)..... | 1,900  | Nottaway (to head of Waswanipi).....           | 400              |
| Manikugan.....                                  | 310    | Waswanipi.....                                 | 190              |
| Outarde.....                                    | 270    | Rupert.....                                    | 380              |
| Bersimis.....                                   | 240    | Eastmain.....                                  | 375              |
| Saguenay (to head of Peribonka).....            | 405    | Big.....                                       | 520              |
| Peribonka.....                                  | 280    | Great Whale.....                               | 365              |
| Mistassini.....                                 | 185    | Leaf.....                                      | 295              |
| Asnuapmucuan.....                               | 165    | Koksoak (to head of Kaniapiskau).....          | 535              |
| Chaudière.....                                  | 120    | Kaniapiskau.....                               | 445              |
| St. Maurice.....                                | 325    | George.....                                    | 365              |
| Mattawin.....                                   | 100    | <b>Flowing into the Pacific Ocean.</b>         |                  |
| St. Francis.....                                | 165    | Columbia (total).....                          | 1,150            |
| Richelieu.....                                  | 210    | Columbia (in Canada).....                      | 459 <sup>1</sup> |
| Ottawa.....                                     | 696    | Kootenay.....                                  | 407 <sup>1</sup> |
| North.....                                      | 70     | Kootenay (in Canada).....                      | 276 <sup>1</sup> |
| Rouge.....                                      | 115    | Fraser.....                                    | 850 <sup>1</sup> |
| North Nation.....                               | 60     | Thompson (to head of North Thompson).....      | 304 <sup>1</sup> |
| du Lièvre.....                                  | 205    | North Thompson.....                            | 210 <sup>1</sup> |
| Gatineau.....                                   | 240    | South Thompson (to head of Shuswap).....       | 206 <sup>1</sup> |
| Coulonge.....                                   | 135    | Chilcotin.....                                 | 146 <sup>1</sup> |
| Dumoine.....                                    | 90     | West Road (Blackwater).....                    | 141 <sup>1</sup> |
| South Nation.....                               | 90     | Nechako.....                                   | 287 <sup>1</sup> |
| Mississippi.....                                | 105    | Stuart (to head of Driftwood).....             | 258 <sup>1</sup> |
| Madawaska.....                                  | 130    | Porcupine.....                                 | 525              |
| Petawawa.....                                   | 95     | Skeena.....                                    | 360 <sup>1</sup> |
| Moir.....                                       | 60     | Bulkley (to head of Masam Creek).....          | 160 <sup>1</sup> |
| Tront.....                                      | 150    | Nass.....                                      | 236 <sup>1</sup> |
| Grand.....                                      | 165    | Stikine.....                                   | 335              |
| Thames.....                                     | 163    | Aisek.....                                     | 260              |
| French (to head of Sturgeon).....               | 180    | Yukon (mouth to head of Nisutlin).....         | 1,765            |
| Sturgeon.....                                   | 110    | Yukon (int. boundary to head of Nisutlin)..... | 655              |
| Spanish.....                                    | 153    | Stewart.....                                   | 320              |
| Mississagi.....                                 | 140    | White.....                                     | 185              |
| Thessalon.....                                  | 40     | Pelly.....                                     | 330              |
| Nipigon (to head of Ombabika).....              | 130    | Macmillan.....                                 | 200              |
| <b>Flowing into Hudson Bay.</b>                 |        | Lewes.....                                     | 338              |
| Hayes.....                                      | 300    | <b>Flowing into the Arctic Ocean.</b>          |                  |
| Nelson (to lake Winnipeg).....                  | 400    | Anderson.....                                  | 465              |
| Nelson (to head of Bow).....                    | 1,600  | Horton.....                                    | 275              |
| Red (to head of lake Traverse).....             | 355    | Mackenzie (to head of Finlay).....             | 2,514            |
| Red (to head of Sheyenne).....                  | 545    | Peel.....                                      | 365              |
| Assiniboine.....                                | 590    | Arctic Red.....                                | 230              |
| Souris.....                                     | 450    | Twitya.....                                    | 200              |
| Qu'Appelle.....                                 | 270    | Liard.....                                     | 570              |
| Winnipeg (to head of Firesteel).....            | 475    | Fort Nelson.....                               | 260              |
| English.....                                    | 330    | South Nahanni.....                             | 250              |
| Saskatchewan (to head of Bow).....              | 1,205  | Petitot.....                                   | 260              |
| North Saskatchewan.....                         | 760    | Athabaska.....                                 | 765              |
| South Saskatchewan (to head of Bow).....        | 865    | Pembina.....                                   | 210              |
| Bow.....                                        | 315    | Slave.....                                     | 258              |
| Belly.....                                      | 180    | Hay.....                                       | 350              |
| Red Deer.....                                   | 385    | Peace (to head of Finlay).....                 | 1,034            |
| Churchill.....                                  | 1,000  | Finlay.....                                    | 250              |
| Beaver.....                                     | 305    | Parnip.....                                    | 145              |
| Kazan.....                                      | 455    | Smoky.....                                     | 245              |
| Dubawnt.....                                    | 580    | Little Smoky.....                              | 185              |
| Severn.....                                     | 420    | Coppermine.....                                | 525              |
| Winisk.....                                     | 295    | Back.....                                      | 605              |
| Attawapiskat.....                               | 465    |                                                |                  |

<sup>1</sup> Added or revised since the publication of the 1933 Year Book.



**The Great Lakes.**—Table 5 shows the length, breadth, area, elevation above sea-level and maximum depth of each of the Great Lakes. Particularly notable are the depth of lake Superior and the shallowness of lake St. Clair and lake Erie.

**5.—Areas, Elevations and Depths of the Great Lakes.**

| Lake.          | Length. | Breadth. | Maximum Depth. | Area.         | Elevation above Sea-level. |
|----------------|---------|----------|----------------|---------------|----------------------------|
|                | miles.  | miles.   | feet.          | square miles. | feet.                      |
| Superior.....  | 383     | 160      | 1,180          | 31,810        | 602.29                     |
| Michigan.....  | 320     | 118      | 870            | 22,400        | 581.13                     |
| Huron.....     | 247     | 101      | 750            | 23,010        | 581.13                     |
| St. Clair..... | 26      | 24       | 23             | 460           | 575.62                     |
| Erie.....      | 241     | 57       | 210            | 9,940         | 572.52                     |
| Ontario.....   | 180     | 53       | 738            | 7,540         | 246.17                     |

Lake Superior, with an area of 31,810 square miles, is the largest body of fresh water in the world. As the international boundary between Canada and the United States passes through the centre of lakes Superior, Huron, St. Clair, Erie and Ontario, only a part of the areas of these lakes given in the above statement is Canadian, while the whole of lake Michigan is within United States territory. The total length of the St. Lawrence waterway, from the head of the St. Louis river in Minnesota to Pointe-des-Monts at the entrance of the gulf of St. Lawrence, is 1,900 miles. The tributaries of the St. Lawrence, several of which have themselves important tributaries, include the Ottawa river, 696 miles long, the St. Maurice river, 325 miles long, and the Saguenay (to head of Peribonka), 405 miles long.

**Other Inland Waters.**—In addition to the Great Lakes, there are large bodies of inland water in other parts of Canada. Of these only the following principal lakes, with their respective areas, need be mentioned: in Quebec, lake Mistassini (840 square miles); in Ontario, lake Nipigon (1,590 square miles); in Manitoba, lake Winnipeg (9,398 square miles), lake Winnipegosis (2,086 square miles) and lake Manitoba (1,817 square miles); in Manitoba and Saskatchewan, Reindeer lake (2,444 square miles); in Saskatchewan and Alberta, lake Athabaska (2,762 square miles). All these are within the boundaries of the provinces as at present constituted and are exclusive of lakes situated in the Northwest Territories, the largest of which are Great Bear lake (11,660 square miles) and Great Slave lake (11,170 square miles) in the district of Mackenzie.

Table 6 gives a list of the principal lakes of Canada by provinces, with the area of each in square miles. The table corresponds with the delimitation of the provinces as altered by the Boundary Extension Acts, 1912 (2 Geo. V, cc. 32, 40 and 45).

**6.—Areas of Principal Canadian Lakes, by Provinces.**

| Province and Lake.             | Area.            | Province and Lake.               | Area.         |
|--------------------------------|------------------|----------------------------------|---------------|
|                                | square miles.    |                                  | square miles. |
| <b>Nova Scotia—</b>            |                  | <b>Quebec—continued.</b>         |               |
| Bras d'Or.....                 | 360              | Burnt.....                       | 56            |
| <b>New Brunswick—</b>          |                  | Champlain (total, 360) part..... | 18            |
| Grand.....                     | 65               | Chibougamau.....                 | 138           |
| <b>Quebec—</b>                 |                  | Clearwater.....                  | 410           |
| Abitibi (total, 330) part..... | 55               | Evans.....                       | 180           |
| Albanel.....                   | 145              | Expansé.....                     | 59            |
| Apiskigamish.....              | 392              | Gull.....                        | 125           |
| Baskatong (reservoir).....     | 109 <sup>1</sup> | Great Long.....                  | 110           |
|                                |                  | Indian House.....                | 125           |

<sup>1</sup> Added or revised since the publication of the 1933 Year Book.

## 6.—Areas of Principal Canadian Lakes, by Provinces—continued.

| Province and Lake.                                      | Area.            | Province and Lake.                              | Area.              |
|---------------------------------------------------------|------------------|-------------------------------------------------|--------------------|
| <b>Quebec—concluded.</b>                                | square miles.    | <b>Manitoba—concluded.</b>                      | square miles.      |
| Kakabonga.....                                          | 66               | Kipahigan (total, 59) part.....                 | 29                 |
| Kaniapiskau.....                                        | 375              | Kiskittogisu.....                               | 99                 |
| Kempt.....                                              | 63 <sup>1</sup>  | Kiskitto.....                                   | 65                 |
| Kipawa.....                                             | 95               | Kississing.....                                 | 141                |
| Lower Seal.....                                         | 130              | Manitoba.....                                   | 1,817              |
| Manikuagan.....                                         | 110              | Molson.....                                     | 154                |
| Manuan.....                                             | 100              | Moose.....                                      | 525                |
| Mattagami.....                                          | 83               | Nomeu (total, 79 <sup>1</sup> ) part.....       | 8                  |
| Minto.....                                              | 485              | North Indian.....                               | 150                |
| Mistassini.....                                         | 840              | Nueltin (total, 336) part.....                  | 76                 |
| Nichikun.....                                           | 150              | Oxford.....                                     | 155                |
| Olga.....                                               | 50               | Paint.....                                      | 54 <sup>1</sup>    |
| Payne.....                                              | 300              | Pelican, west of Winnipegosis.....              | 80                 |
| Pipmakan.....                                           | 90               | Playgreen.....                                  | 257                |
| Pletipi.....                                            | 138              | Reed.....                                       | 73                 |
| Quinze, Lac des.....                                    | 55               | Red Deer, west of lake Winnipegosis.....        | 88                 |
| St. Francis, river St. Lawrence (total, 85) part.....   | 63               | Reindeer (total, 2,444 <sup>1</sup> ) part..... | 385 <sup>1</sup>   |
| St. John.....                                           | 375              | St. Martin.....                                 | 125                |
| St. Louis.....                                          | 57               | Setting.....                                    | 49 <sup>1</sup>    |
| St. Peter.....                                          | 130              | Shoal (total, 114) part.....                    | 6                  |
| Timiskaming (total, 110) part.....                      | 55               | Sipiwesik.....                                  | 201                |
| Two Mountains.....                                      | 63               | Sisipuk (total, 99) part.....                   | 73                 |
| Upper Seal.....                                         | 260              | Southern Indian.....                            | 1,200              |
| Waswanipi.....                                          | 75               | Stevenson.....                                  | 75                 |
|                                                         |                  | Swan.....                                       | 100                |
| <b>Ontario—</b>                                         |                  | Talbot.....                                     | 72                 |
| Abitibi (total, 330) part.....                          | 295              | Todatara (total, 241) part.....                 | 156                |
| Dog.....                                                | 61               | Walker.....                                     | 62                 |
| Eagle.....                                              | 137              | Waterhen.....                                   | 90                 |
| Erie (total, 9,940) part.....                           | 5,094            | Wekusko.....                                    | 64                 |
| Huron, including Georgian Bay (total, 23,010) part..... | 13,675           | Winnipeg.....                                   | 9,398              |
| Kesagami.....                                           | 90               | Winnipegosis.....                               | 2,086              |
| La Croix (total, 55) part.....                          | 25               | Woods, lake of the (total, 1,346) part.....     | 59                 |
| Long.....                                               | 75               |                                                 |                    |
| Manitou, Kenora.....                                    | 60               | <b>Saskatchewan—</b>                            |                    |
| Mille Lacs, Lac des.....                                | 102              | Amisk.....                                      | 168 <sup>1</sup>   |
| Minitaki.....                                           | 72               | Athabaska (total, 2,762) part.....              | 1,700              |
| Nipigon.....                                            | 1,590            | Besnard.....                                    | 72                 |
| Nipissing.....                                          | 330              | Black Birch.....                                | 54 <sup>1</sup>    |
| Ontario (total, 7,540) part.....                        | 3,727            | Candle.....                                     | 56                 |
| Rainy (total, 366) part.....                            | 292              | Canoe.....                                      | 78 <sup>1</sup>    |
| Red.....                                                | 69               | Churchill.....                                  | 213                |
| St. Clair (total, 460) part.....                        | 270              | Cold (total, 136) part.....                     | 36                 |
| St. Francis, river St. Lawrence (total, 85) part.....   | 20               | Cree.....                                       | 350                |
| St. Joseph.....                                         | 187              | Cumberland.....                                 | 93                 |
| Sandy.....                                              | 270              | Deschambault.....                               | 209 <sup>1</sup>   |
| Seul.....                                               | 416              | Doree.....                                      | 248                |
| Shoal (total, 114) part.....                            | 108              | Ile-à-la-Croise.....                            | 165 <sup>1</sup>   |
| Simcoe.....                                             | 280              | Johnstone.....                                  | 123                |
| Stout, Berens river.....                                | 50               | Kamuchawie (total, 56 <sup>1</sup> ) part.....  | 26 <sup>1</sup>    |
| Sturgeon, English river.....                            | 110              | Kipahigan (total, 59) part.....                 | 30                 |
| Superior (total, 31,810) part.....                      | 11,200           | La Plonge.....                                  | 90                 |
| Timagami.....                                           | 90               | Last Mountain.....                              | 89                 |
| Timiskaming (total, 110) part.....                      | 55               | Little Quill.....                               | 70                 |
| Trout, English river.....                               | 156              | Loche, Lac la.....                              | 70                 |
| Trout, Severn river.....                                | 215              | Montreal.....                                   | 162                |
| Woods, lake of the (total, 1,346) part.....             | 1,127            | Nomeu (total, 79 <sup>1</sup> ) part.....       | 71 <sup>1</sup>    |
|                                                         |                  | Nemeiben.....                                   | 63                 |
| <b>Manitoba—</b>                                        |                  | Peter Pond.....                                 | 302                |
| Athapuskow.....                                         | 104              | Plonge, Lac la.....                             | 64                 |
| Atikameg.....                                           | 112              | Primrose (total, 181) part.....                 | 173                |
| Beaverbill.....                                         | 70               | Quill.....                                      | 236                |
| Cedar.....                                              | 537              | Reindeer (total, 2,444 <sup>1</sup> ) part..... | 2,058 <sup>1</sup> |
| Cormorant.....                                          | 134              | Ronge, Lac la.....                              | 450                |
| Cross (Nelson river).....                               | 274              | Sisipuk (total, 99) part.....                   | 26                 |
| Dauphin.....                                            | 200              | Smoothstone.....                                | 110                |
| Dog.....                                                | 64               | Snake.....                                      | 159                |
| Etawney.....                                            | 546              | Wollaston.....                                  | 768                |
| Gods.....                                               | 319              |                                                 |                    |
| Goose.....                                              | 53               | <b>Alberta—</b>                                 |                    |
| Granville.....                                          | 181 <sup>1</sup> | Athabaska (total, 2,762) part.....              | 1,062              |
| Island.....                                             | 550              | Beaverhills.....                                | 80                 |
| Kamuchawie (total 56 <sup>1</sup> ) part.....           | 30 <sup>1</sup>  | Biche, Lac la.....                              | 94                 |
|                                                         |                  | Buffalo.....                                    | 56                 |
|                                                         |                  | Calling.....                                    | 55                 |
|                                                         |                  | Claire.....                                     | 545                |

<sup>1</sup> Added or revised since the publication of the 1933 Year Book.

## 6.—Areas of Principal Canadian Lakes, by Provinces—concluded.

| Province and Lake.                          | Area.            | Province and Lake.                          | Area.           |
|---------------------------------------------|------------------|---------------------------------------------|-----------------|
| <b>Alberta—concluded.</b>                   | square miles     | <b>Northwest Territories—concluded.</b>     | square miles.   |
| Cold (total, 136) part.....                 | 100              | Clinton-Colden.....                         | 253             |
| Lesser Slave.....                           | 461              | Dubawnt.....                                | 1,600           |
| Mamawi.....                                 | 64               | Faber.....                                  | 163             |
| Peerless.....                               | 75               | Franklin.....                               | 175             |
| Primrose (total, 181) part.....             | 8                | Garry.....                                  | 980             |
| Sullivan (variable).....                    | 62               | Gras, Lac de.....                           | 345             |
| Utikuma.....                                | 85               | Great Bear.....                             | 11,660          |
| <b>British Columbia—</b>                    |                  | Great Slave.....                            | 11,170          |
| Adams.....                                  | 52               | Hardisty.....                               | 107             |
| Atlin (total, 308 <sup>1</sup> ) part.....  | 307 <sup>1</sup> | Hottah.....                                 | 377             |
| Babine.....                                 | 194              | Kaminuriak.....                             | 360             |
| Chilko.....                                 | 75               | Macdougall.....                             | 265             |
| Eutsuk.....                                 | 96 <sup>1</sup>  | Maguse.....                                 | 540             |
| François.....                               | 91               | Martre, Lac la.....                         | 1,335           |
| Harrison.....                               | 87 <sup>1</sup>  | Mackay.....                                 | 250             |
| Kootenay.....                               | 168              | Marian.....                                 | 90              |
| Kotcho (unsurveyed and estimated).....      | 90               | Nueltin (total, 336) part.....              | 260             |
| Lower Arrow.....                            | 59               | Nutarawit.....                              | 350             |
| Okanagan.....                               | 136              | Pelly.....                                  | 331             |
| Ootsa.....                                  | 50 <sup>1</sup>  | Point.....                                  | 295             |
| Quesnel.....                                | 100 <sup>1</sup> | Rae.....                                    | 74              |
| Shuswap.....                                | 120              | Schultz.....                                | 110             |
| Stuart.....                                 | 139 <sup>1</sup> | Thoslintoa.....                             | 160             |
| Tagish (total, 138 <sup>1</sup> ) part..... | 93 <sup>1</sup>  | Todatara (total, 241) part.....             | 85              |
| Takla.....                                  | 102 <sup>1</sup> | Yathkyed.....                               | 860             |
| Teslin (total, 161 <sup>1</sup> ) part..... | 65 <sup>1</sup>  | <b>Yukon—</b>                               |                 |
| Upper Arrow.....                            | 88 <sup>1</sup>  | Aishihik.....                               | 107             |
| <b>Northwest Territories—</b>               |                  | Atlin (total, 308 <sup>1</sup> ) part.....  | 1               |
| Aberdeen.....                               | 475              | Kluane.....                                 | 184             |
| Artillery.....                              | 207              | Kusawa.....                                 | 56              |
| Aylmer.....                                 | 340              | Laberge.....                                | 87              |
| Baker.....                                  | 975              | Tagish (total, 138 <sup>1</sup> ) part..... | 45              |
|                                             |                  | Teslin (total, 161 <sup>1</sup> ) part..... | 96 <sup>1</sup> |

<sup>1</sup> Added or revised since the publication of the 1933 Year Book.

## Section 3.—Islands.

The islands of Canada are among its most remarkable geographic features. They include the numerous unsurveyed and little known areas of the Arctic regions, the fringe of both large and small islands off the Pacific coast, those of the Maritime Provinces and Quebec in the Atlantic ocean and the gulf of St. Lawrence, together with the islands of the Great Lakes and other inland waters. Of the Arctic islands, but little need be said. They are known to be of vast extent, Baffin, Victoria and Ellesmere, the three largest, being approximately 201,600, 80,450 and 75,024 square miles in area respectively, but Banks, Devon, Southampton, Somerset, Prince of Wales, Melville and Axel Heiberg are also of considerable size. Their economic possibilities, beyond scattered deposits of coal and other minerals, have not been established. The Pacific Coast islands, with the exception of Vancouver island and the Queen Charlotte group, are small and dot the western coast of British Columbia from Dixon entrance to the southern boundary of the province. Vancouver island is 285 miles long and from 40 to 80 miles broad, covering an area of about 12,408 square miles; the mountain range which forms its backbone rises again to form the Queen Charlotte islands farther north. These islands figure largely in the mining, lumbering and fishing industries of the West.

On the eastern coast of the Dominion are the island province of Prince Edward Island, the island of Cape Breton (an integral part of Nova Scotia), Anticosti and the Magdalen group (included in the province of Quebec) and the islands of Grand

Manan and Campobello (part of the province of New Brunswick) in the bay of Fundy. Prince Edward island is 2,184 square miles in area, Cape Breton 3,970 and Anticosti of about the same extent. Fishing activities in these eastern islands are important, while agriculture on Prince Edward island and mining on Cape Breton are among the chief occupations of the inhabitants.

Manitoulin island in lake Huron and the Thousand Islands group in the St. Lawrence river, at its outlet from lake Ontario, are the more important islands of the inland waters.

## PART II.—GEOLOGY.

### Section 1.—Geology of Canada.\*

The outstanding feature of Canadian geology is the vast area underlain by formations of Precambrian age. These occupy nearly the whole of Canada east of a line joining lake Winnipeg and Great Bear lake with the exception of the Maritime Provinces, the extreme southern parts of Ontario and Quebec, and a part of Ontario adjacent to the southern coast of Hudson bay. The Precambrian rocks are the oldest rocks exposed on the earth's surface, and the vast area which they underlie is one that has probably existed as a land mass throughout longer periods than any other part of Canada.

These ancient formations extend, with gentle sloping surface, in almost all directions beneath a mantling series of nearly flat-lying sedimentary rocks of Palæozoic, Mesozoic and Cenozoic age. These little disturbed sediments occupy southern Quebec, southern Ontario, the Prairie Provinces and the Northwest Territories. Some of them were at one time of much wider extent and covered part or all of the Precambrian area.

Towards the Atlantic and Pacific coasts the Palæozoic and later sediments together with the older rocks on which they rest and assemblages of volcanic rocks are intensely folded and faulted, forming the Appalachian system of mountains on the east and the great Cordillera, comprising nearly all of British Columbia and Yukon, on the west.

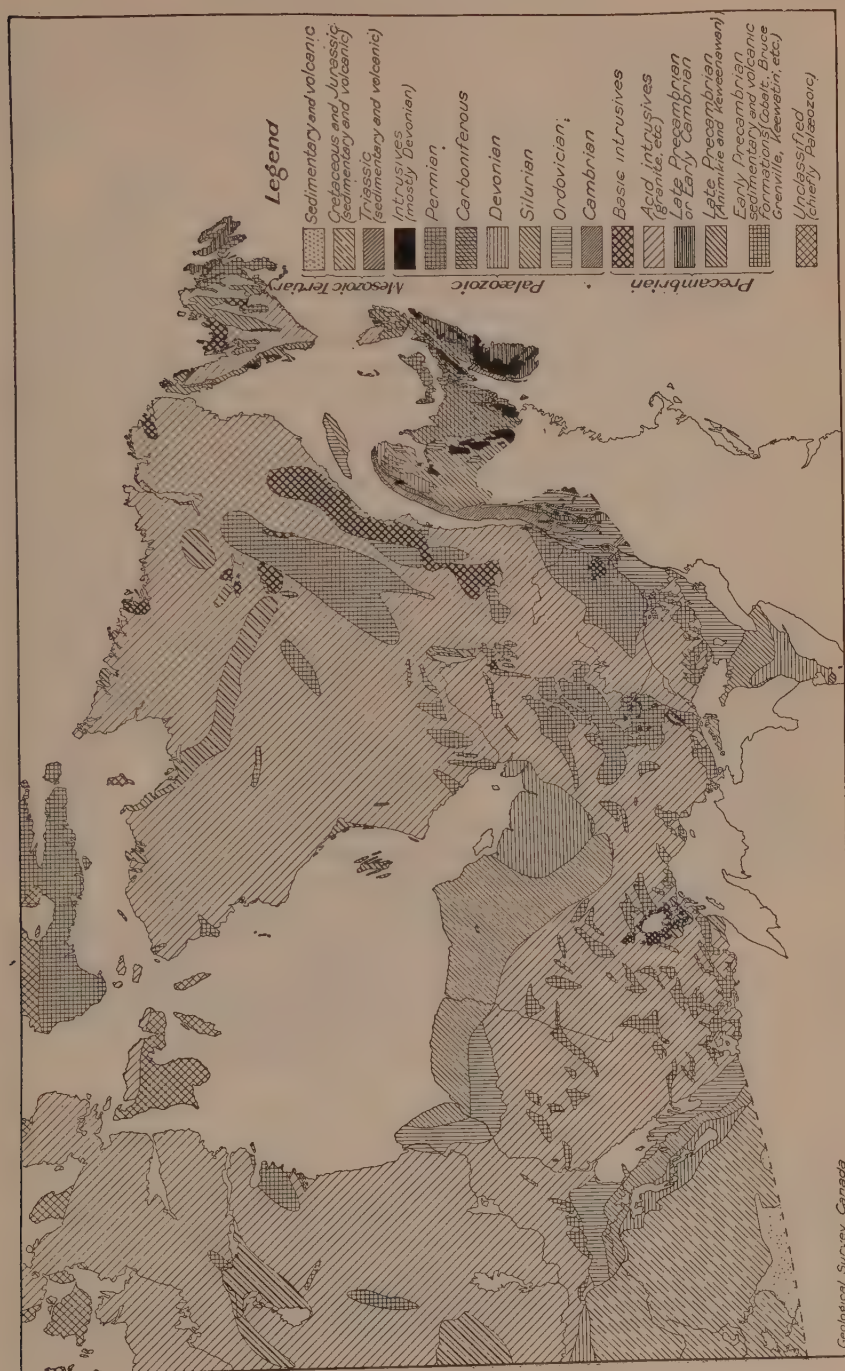
#### Subsection 1.—Topography.

The present topography of Canada is the temporary outward expression of a half continent which is subject to unceasing change. It is the result of the operation of geological processes at the surface of the earth or at depth throughout hundreds of millions of years. It derives from the injection of igneous rock masses in liquid form beneath the surface, the ejection of lavas and volcanic fragments of material, the deposition of sediments, the folding and faulting of rock formations and the disintegration of solid rocks and transportation of the products of disintegration by surface agencies. The slow rising and sinking of broad continental land masses and the upheaval and subsequent gradual levelling of mountain ranges are involved.

The great area in Eastern Canada underlain by rocks of Precambrian age is known as the Canadian (or Precambrian) Shield or the Laurentian Plateau. It may be regarded as a subdued plateau or perhaps, more strictly speaking, a peneplanated surface that has been rejuvenated by Pleistocene glaciation and uplift.

\*By Wyatt Malcolm, M.A., Geological Survey, Ottawa.





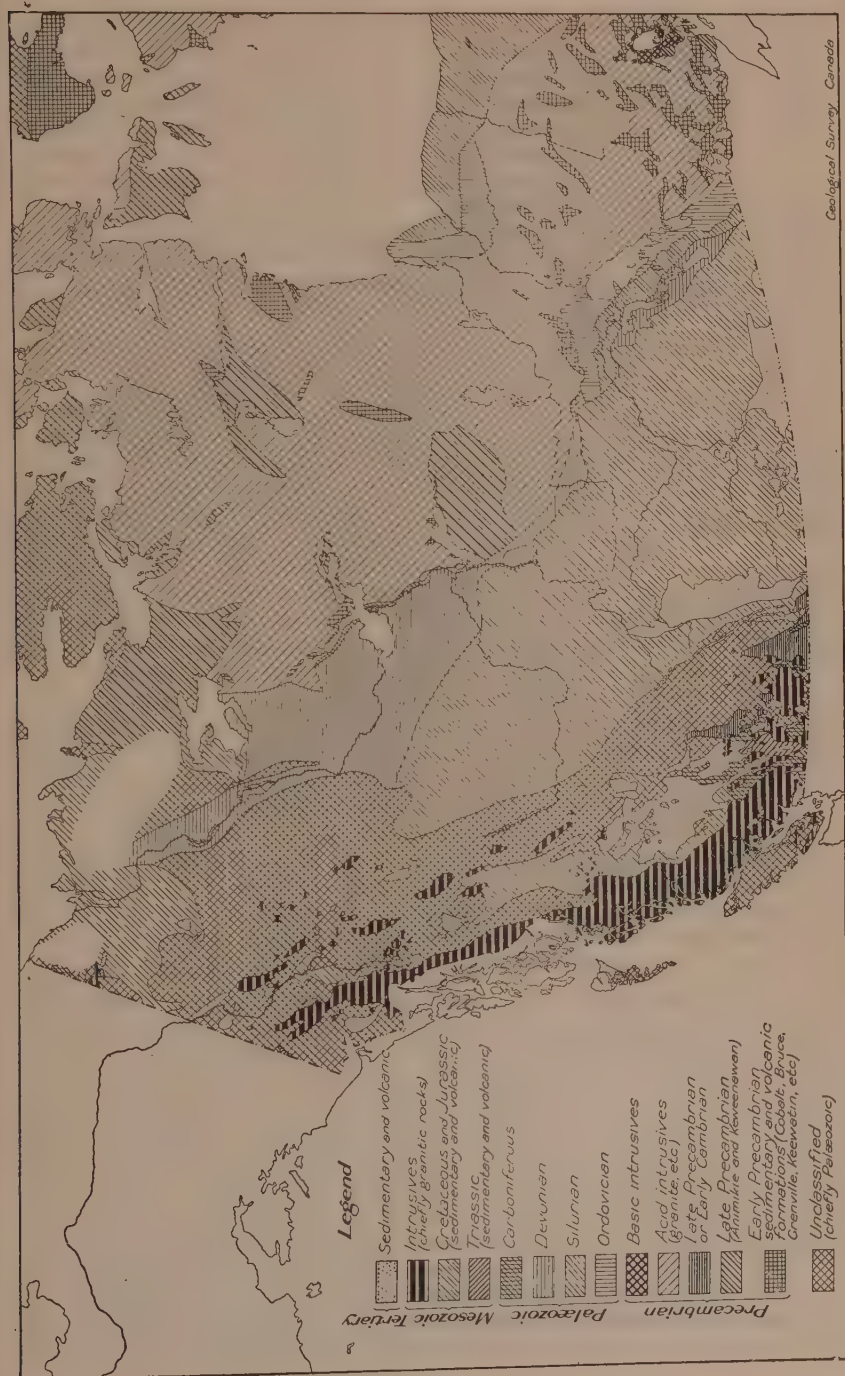
GEOLOGY OF EASTERN CANADA AND NEWFOUNDLAND.

Its average elevation probably does not exceed 1,500 feet, and, except in the north-east, there are few areas that exceed 2,000 feet. In general, the surface slopes gently to the surrounding plain and there are long stretches of the boundary in which there is no marked difference of elevation between the Precambrian Shield and the adjacent Palæozoic plain; there are other long stretches in which there is an abrupt rise of several hundred feet above the plain or the sea. The greatest known elevations are in the eastern part of Baffin island and along the coast of northern Labrador. Peaks of the Torngat mountains of Labrador have elevations of between 4,000 and 5,000 feet. The coast is one of the boldest and most rugged in the world, with nearly vertical cliffs rising 1,000 to 2,000 feet in height. Though the Canadian Shield is an area of low relief and has a remarkably even sky line, the surface is generally rugged with successions of rocky hills 100 to 200 feet high. Occasional exceptions occur in which there is a relief of several hundred feet, as in the hills on the north shores of lake Huron and lake Superior. The area is dotted with lakes, large and small, of irregular outline and with numerous islands. They are rock basins that spill their waters from one to another by streams with rapids and falls. In an area of 250 square miles in western Ontario that cannot be considered exceptional, aerial surveys have shown that there are 700 lakes. There are well-defined deep trenches like that occupied by lake Timiskaming, related to faulting or other structural features. The Saguenay river flows in a trench that descends to more than 800 feet below sea-level, and lake Superior, the largest body of fresh water on the face of the earth, fills a basin in the Canadian Shield that reaches about 400 feet below sea-level.

Extending south and west from the Canadian Shield and limited on the east by the Appalachian Mountain system and on the west by the western Cordillera of America, is the great North American plain. The northeastern part of this plain occupies southern Ontario south of a line extending from Georgian bay to the east end of lake Ontario, that part of eastern Ontario lying between the Ottawa and St. Lawrence rivers, and the part of Quebec lying adjacent to the St. Lawrence between Montreal and Quebec. The part of the plain west of the Canadian Shield is of wide extent, and stretches northward to the Arctic ocean between a line approximately joining lake Winnipeg, lake Athabaska, Great Slave lake and Great Bear lake on the east, and the foothills of the Rocky mountains on the west.

Although these areas are but parts of one great plain and are disconnected in Canada only because the Canadian Shield happens to project across the International Boundary in a narrow belt east of lake Ontario and in a wide zone between lake Huron and the lake of the Woods, they will, for convenience of treatment, be considered separately. Those parts lying in the basin of the St. Lawrence and the Great Lakes have been designated the St. Lawrence Lowlands, while the western area has been named the Interior Plains.

The part of the St. Lawrence Lowlands lying in the eastern angle of Ontario and in Quebec south of Montreal, and extending down the St. Lawrence, is comparatively flat and lies less than 500 feet above sea-level. On the lower St. Lawrence it is greatly narrowed by the near approach of the Appalachian system to the Canadian Shield. The part lying adjacent to lakes Ontario, Erie and Huron is of less even surface, has its greatest elevation of over 1,700 feet south of Georgian bay, and slopes rather gently to the Great Lakes. A striking topographical feature is the Niagara escarpment. This is an eastward-facing escarpment having a height of 250 to 300 feet and extending from the Niagara peninsula northwest to Bruce peninsula.



GEOLOGY OF WESTERN CANADA.



The Interior Plains region is in general a rolling country with broad undulations and a slope eastward and northward of a few feet per mile, descending from an elevation of 3,000 to 5,000 feet near the mountains on the west to less than 1,000 feet at its eastern border. The elevation of the Canadian Pacific Railway at Calgary is 3,439 feet and at Winnipeg 772 feet. The rolling character of the area is relieved by several flat-topped hills—erosion remnants rising hundreds of feet above the surrounding country, by flat areas that formed the beds of lakes of considerable extent, and by deeply incised river valleys. A striking feature is the broken escarpment of western Manitoba and eastern Saskatchewan, marking the rise of 400 to 1,000 feet from the Manitoba lowland to the upland of the west. A lowland of considerable extent stretches for some distance into Ontario and Manitoba from the south shore of Hudson bay.

The Arctic archipelago consists of large islands, many of which rise prominently from the sea as sloping table lands while others are comparatively low.

The Appalachian and Acadian regions occupy practically all that part of Canada lying east of the St. Lawrence, with the exception of the lowland west of a line joining Quebec city and lake Champlain. The Appalachian region is a continuation northward into the province of Quebec of three chains of the Appalachian system of mountains. The most westerly of these ranges stretches northeast into Gaspé peninsula, where it forms flat-topped hills over 3,000 feet high. Mount Jacques Cartier or Tabletop mountain has an elevation of 4,350 feet. The Acadian region, which includes New Brunswick, Nova Scotia, and Prince Edward Island, is an alternation of uplands and lowlands. The northwest part of New Brunswick is an upland with hills and ridges rising to 2,500 feet or higher. Adjacent to the bay of Fundy is a series of ridges rising in places to an elevation of 1,200 feet or more. Between these two New Brunswick uplands, which converge towards the southwest, is a lowland forming the whole eastern part of the province. This lowland extends east so as to include Prince Edward island, the western fringe of Cape Breton island and the mainland of Nova Scotia north of the Cobequid mountains, which have an elevation of 800 to 1,000 feet. South of them lies a long narrow lowland stretching from Chedabucto bay to Minas basin and along the Cornwallis-Annapolis valley between North and South mountains. South of this is a highland sloping to the Atlantic coast and having an elevation at its highest part of about 700 feet. The northern part of Cape Breton island is a tableland 1,200 feet high, with its central part rising to an elevation considerably in excess of this, one point at the headwaters of Clyburn and Cheticamp rivers being 1,747 feet above sea-level.

The Cordilleran region, the mountainous area bordering the Pacific, extends northward from the United States through Canada into Alaska, and embraces nearly all of British Columbia and Yukon, and the western edge of Alberta and the Northwest Territories. The eastern part of the Cordillera is occupied by the Rocky mountains. They consist of overlapping chains with peaks rising to heights of 10,000 to 12,000 feet. They extend northwest and fall away towards the Liard river. North of this river the mountains with a similar trend lie 100 miles farther east and are known as the Mackenzie mountains. The western part of the Cordillera is occupied by the Coast range and the mountains of Vancouver and Queen Charlotte islands. The Coast range rises to heights of 7,000 to 9,000 feet. Between the Rocky mountains and the Coast range lies a vast plateau system having elevations of 3,000 to 4,000 feet, and cut by deep river valleys. The plateau region merges into rugged mountain ranges as it approaches the Rocky mountains; it also breaks into mountains in northern British Columbia, but becomes subdued to a plateau



again in Yukon. A striking feature of the Cordillera is the deep trench that lies immediately to the west of the Rocky mountains, extends northwesterly from the International Boundary into Yukon and is occupied by the head waters of the Kootenay, Columbia and Fraser rivers, and tributaries of the Peace and Liard rivers.

### Subsection 2.—Geology.

**Canadian Shield.**—The Canadian Shield is underlain by rocks of Precambrian age. These consist of series of sedimentary and volcanic formations and igneous intrusives of great variety. They were subjected to mountain-building processes, folded, crushed and metamorphosed, and the mountains were reduced nearly to their present level before the earliest Palæozoic sediments were deposited. The Precambrian period was probably of greater duration than all the subsequent geological periods taken together.

Geologists do not agree on the main subdivisions of the Precambrian formations. There is one great unconformity, which represents a long period of erosion, and which divides the stratified rocks into two groups, the earlier group consisting of a great mass of volcanics with associated sedimentary rocks and the later group consisting more fully of sediments. The earlier group is greatly folded and altered; the later group has in general been less disturbed and altered.

In the earlier group the most important series is the Keewatin. The Keewatin consists essentially of lava flows accompanied in many places by tuffs and basic intrusives, and includes iron formation, which frequently is made up of thin layers of chert-like quartz, alternating with quartzose layers holding magnetite or hematite or both. Sedimentary rocks consisting of conglomeratic, sandy and slaty strata are frequently associated with the volcanics and are, in places, of considerable thickness and extent. They may underlie the volcanics, like the Couchiching of the Rainy Lake area; they may be interbedded with the volcanics, like the Doré formation of Michipicoten; or they may overlie the volcanics, like the Timiskaming formation of northeastern Ontario and western Quebec. Between the volcanics and overlying sediments of northeastern Ontario and western Quebec there is an unconformity that is regarded by some geologists as of major importance. The early Precambrian formations occupy numerous areas of various sizes up to several hundred square miles in western Quebec, northern Ontario, eastern and central Manitoba, and to a less degree in Saskatchewan and the Northwest Territories.

The later Precambrian formations consist in a large measure of sedimentary rocks—conglomerates, quartzites and slates. In an area lying immediately north of lake Huron and stretching northeast to beyond lake Timiskaming lies a succession of sediments known as the Huronian. These consist of: (a) the Bruce series, made up of conglomerates, quartzites and impure dolomitic limestone with an aggregate thickness of 2,700 to 12,000 feet; and (b) the Gowganda series, made up of boulder conglomerate and other materials probably of glacial origin, overlain by quartzite and calcareous quartzite, with an aggregate thickness of 12,000 feet. An erosion interval of considerable time intervened between the deposition of these two series. These strata are undulating with gentle dips except on the north shore of lake Huron and eastward, where they stand at high angles and represent the core of an ancient mountain range that probably flanked the southern edge of the continent.

North of lake Superior the later Precambrian rocks are represented by a group of nearly flat-lying sediments known as the Kaministiquian group. This group

embraces: the Animikie series of conglomerate, iron formation, and shale; the Sibley series of conglomerate, sandstone, limestone, and tuff; and the Osler series of lavas, conglomerate, sandstone and tuff.

In northwestern Manitoba the Precambrian formations are separated by an unconformity into an earlier Wekuskoan group of lavas and sediments and a later group of Missian sediments. Farther north in the Canadian Shield, the areas underlain by the complex of altered volcanics and sediments of early Precambrian age are fewer and smaller and are found on Great Slave lake, Great Bear lake, Ferguson river, and at Cape Smith and a few other places.

Strata, presumably of late Precambrian age, are known to occur on lake Athabaska, Great Slave lake, east of Great Bear lake, on Belcher islands, on the east of Hudson bay and at other points in the Ungava peninsula. In the southern part of Ungava peninsula sediments are found that bear a resemblance to the Grenville-Hastings group of southern Quebec and southeastern Ontario.

The Grenville-Hastings group consists of closely folded, highly altered sediments intruded by, and in places interleaved with, granite. They are in general rusty-weathering banded gneisses, quartzose gneisses grading into quartzites, crystalline limestones, amphibolites, pyroxene-rich rocks and volcanic schists. Pegmatite dykes are common and anorthosite occupies large areas. The Grenville-Hastings group forms a belt in the southern part of the Canadian Shield, extending east from Georgian bay. The formations have not as yet been indubitably correlated with the Keewatin and Huronian rocks to the north.

The Precambrian sediments have suffered intrusion at various times by granites. These have been unroofed at different stages in the history of the Precambrian, and pebbles of granite are found in the conglomerates as early as those of Keewatin age. So complete has been the unroofing of the granites that they are exposed over the greater portion of the Canadian Shield. Basic intrusives were common in later Precambrian times. Sills and dykes of diabase cut the late Precambrian sediments around lake Nipigon, to the west of lake Timiskaming and at many other points. A thick laccolith of norite and micropegmatite is found in the Sudbury district.

The Canadian Shield was intensely glaciated during Pleistocene times, and in general only a scant amount of soil was left, sufficient partially to conceal the rocks and maintain a forest growth. In some areas, as in part of northern Ontario and Quebec, adjacent to the Canadian National Railway, stratified fine sediments were deposited in lakes formed in front of the retreating glacier.

The Precambrian formations are prolific of mineral deposits of great number, variety and extent. These latter occur generally at or near the contact of the intrusives and the intruded rocks. Among them are the gold deposits of Porcupine and Kirkland Lake, associated with intrusions of porphyry, the silver deposits of Cobalt, South Lorrain and Gowganda, associated with diabase sills, the enormous nickel-copper deposits of Sudbury, associated with norite of a thick laccolithic intrusion, the auriferous copper sulphides of western Quebec, the copper-zinc sulphides of Manitoba, the pitchblende and silver deposits of Great Bear lake, and the iron ores and iron pyrites of many localities of Ontario; in the Grenville-Hastings area are found deposits of galena, mica, graphite, feldspar, magnesite, fluorite, kaolin, molybdenite, talc and apatite.

**St. Lawrence Lowlands.**—The St. Lawrence Lowlands are divided into two parts by an arm of the Laurentian Plateau that extends southward into New York State, crossing the St. Lawrence between Kingston and Brockville. They are

underlain by nearly horizontal Palæozoic sediments dipping gently away from the Canadian Shield and resting on the sloping surface of Precambrian rocks which, prior to the deposition of the Palæozoic strata, had been reduced to a physiographic condition similar to that existing on the Canadian Shield to-day.

The sediments are almost wholly of marine origin, consist mainly of limestone, magnesian limestone and shale, and range in age from late Cambrian to late Devonian.

In the Ottawa-Montreal division the latest strata are Ordovician; these, together with the Potsdam sandstone (Cambrian), have a thickness of about 6,000 feet. In the Great Lakes region of southern Ontario the Ordovician formations are succeeded upward by those of Silurian age and these in turn by strata of Devonian age. The Ordovician formations form a zone extending from Kingston to the Niagara escarpment and stretching northwest to Georgian bay and into Manitoulin island. The Silurian formations are exposed in the Niagara escarpment and westward in a belt 25 to 50 miles wide stretching northwest from Niagara peninsula into Manitoulin island. West of this nearly the whole of the area between lake Erie and lake Huron is underlain by Devonian limestones and shales. Each in turn is exposed over an area farther to the southwest than the older and underlying formation, so that in travelling westward from Kingston to Sarnia one passes over the bevelled edges of successively younger strata. Borings made at Courtright, in the township of Moore, show a thickness of nearly 4,260 feet of sedimentary rocks.

It is probable that the seas in which some of these sedimentary rocks were formed extended northward over the Precambrian rocks through Hudson bay into the Arctic ocean. The presence of outliers on lake St. John, lake Nipissing, and lake Timiskaming in the south, and on lake Nicholson west of Hudson bay, of broad areas of Ordovician, Silurian and Devonian formations south of Hudson bay, and of Cambrian, Ordovician, Silurian and Devonian formations on the islands of the northern part of Hudson bay and of the Arctic seas, is clearly indicative of wide submergence. On the Arctic islands formations of Carboniferous (with coal seams) and Triassic ages are widespread, and there are patches of Tertiary sediments (with lignite). Sediments of Cretaceous age with lignite are found in Moose River basin.

The St. Lawrence Lowlands were covered by the glaciers of Pleistocene time, and the bedrock is to a great extent concealed by thick deposits of glacial till. In places are found stratified deposits that formed in lakes at the edge of the retreating ice sheet. Marine deposits were laid down in an arm of the sea that extended up the St. Lawrence and Ottawa valleys to a point above Ottawa.

The only intrusives worthy of mention are the igneous rocks of alkali types that form the Monteregian hills in southern Quebec, Mount Royal and seven others to the east. They are circular or oval hills that rise 600 to 1,200 feet above the plain and appear to be stock-like bodies or fillings of conduits that may have led to volcanic vents or larger masses of intrusives.

The mineral deposits are such as are usually found in the less altered sedimentary rocks. Petroleum has been produced in southern Ontario for 70 years; natural gas has been produced for 40 years in the counties bordering on lake Erie; salt has been obtained for a great many years from thick beds lying at a depth of about 1,000 feet in the counties bordering on lake Huron and lake St. Clair; gypsum is produced in the Grand River valley; limestone and dolomite, utilized in chemical and metallurgical industries, are widespread; materials for construction, for brick, tile and cement manufacture are abundant.



**Appalachian and Acadian Regions.**—The Appalachian and Acadian regions are composed of geological formations ranging from Precambrian through Palæozoic to Mesozoic. The Palæozoic sediments pass upward from dominantly marine formations into dominantly continental formations. A complete succession is not found and there are several breaks in sedimentation.

Sediments, probably of Precambrian age, occur in southeastern Quebec, southern New Brunswick, northern Cape Breton island and on the Atlantic coast of the mainland of Nova Scotia. The thick series of slates and quartzites, known as the Gold-bearing series, forms a belt occupying a very considerable part of the mainland of Nova Scotia, faces the Atlantic coast and is probably of late Precambrian age.

During the Palæozoic period numerous disturbances took place in sedimentation; there were periods of uplift, of folding, and of erosion. Cambrian formations are found in southeastern Quebec, Ordovician formations are of extensive development in the Appalachian region from Vermont to Gaspé, Silurian and Devonian are well developed in Gaspé and the northwestern part of New Brunswick. Patches of Cambrian, Ordovician, Silurian and Devonian rocks are found in other parts of the Appalachian and Acadian regions.

The system of sediments most widely distributed in the Maritime Provinces is the Carboniferous. The formations are mainly of continental deposition although during Mississippian time a part of the area was submerged and received marine sediments. Towards the close of Devonian time there was a period of intense mountain building and igneous activity. Granite masses of large size were intruded in Nova Scotia and New Brunswick and of smaller size in Gaspé and southeastern Quebec. The upheaval was succeeded by intense erosion, and in early Carboniferous time granite masses were exposed by the removal of the overlying rocks.

The Carboniferous system occupies the triangular lowland forming much of the southeastern half of New Brunswick, the part of Nova Scotia north of Cobequid mountains, part of the lowland to the south of these mountains, southwestern and northeastern Cape Breton island and Prince Edward island. On Prince Edward island the Carboniferous may pass upward into the Permian. In the Carboniferous system are found the coal measures of Sydney and Glace bay, of Inverness, Pictou and Cumberland counties, Nova Scotia; and of the Minto coal field, New Brunswick. The extensive gypsum deposits and the salt beds of Nova Scotia and New Brunswick are found in a formation of Mississippian age, and the bituminous shales of New Brunswick and Nova Scotia are also of early Carboniferous age. The Carboniferous system has in places been subjected to folding and faulting, but considerable areas have suffered little disturbance since these sediments were laid down.

Sandstone and lava flows of Triassic age are exposed on the bay of Fundy, particularly on the south coast. North Mountain is composed of basic lava flows capping Triassic sandstone. During the Pleistocene period the whole of the Appalachian and Acadian regions, with the exception of the higher parts of Gaspé, was subjected to glaciation.

The most important economic minerals of the Appalachian and Acadian regions are coal, asbestos, and gypsum. Reference has already been made to the occurrence of coal and gypsum. Asbestos occurs in altered peridotite in southeastern Quebec. These are the most productive deposits of the world. Chromite also occurs in the peridotite. Auriferous quartz veins, mainly of the interbedded type, are found on domes and pitching anticlines of the gold-bearing series of Nova Scotia. Zinc-lead deposits occur in the Devonian shales and limestones of Gaspé peninsula, zinc-lead-

copper sulphides in the southern part of Cape Breton island in a series of lava flows, copper deposits in southern Quebec, and salt in Nova Scotia and southeastern New Brunswick.

**Interior Plains.**—The Interior Plains are underlain by a series of nearly horizontal sedimentary rocks of Palæozoic, Mesozoic and Tertiary ages. The Palæozoic rocks, consisting mainly of limestone, dolomite and shale of Ordovician, Silurian and Devonian ages, form a belt extending north through Manitoba and northwest through Saskatchewan and northeastern Alberta down the basin of the Mackenzie river. East of the Mackenzie, rocks of Cambrian age are exposed in an area of limited extent. The Palæozoic formations rest upon the gently sloping shelf of the Canadian Shield and pass westward with a dip of a few feet a mile beneath the shales and sandstones of Cretaceous age. The Cretaceous formations occupy nearly the whole of the plain from western Manitoba to the Rocky mountains and extend northward nearly to the Mackenzie river. There are also large parts of the Mackenzie basin, particularly of the lower half, in which the Devonian limestones are overlain by Cretaceous sediments. The Cretaceous sediments vary from shales predominantly of marine origin in the east to sandstones predominantly of continental origin in the west. Between the two are alternations of shales of marine origin with sandstones of brackish-water or fresh-water origin.

The Cretaceous beds are overlain in places by sediments of Tertiary age. The most extensive Tertiary formations are found in the hills of southern Saskatchewan and in a belt running north through central Alberta, where they lie in a broad syncline. Glacial till is widespread and clays were deposited in large lakes formed on the retreat of the ice-sheet. A large part of southern Manitoba formed the bed of glacial lake Agassiz.

The Interior Plains region is the great wheat-producing area of Canada. The mining of coal is one of the important industries; bituminous coal and lignite are produced in large quantities in Alberta and lignite in smaller quantities in Saskatchewan. The Cretaceous sediments are the reservoirs of great quantities of natural gas, and these and underlying formations are the source of the oil of the Turner Valley and other oil fields of Alberta. Oil has also been struck in the Devonian rocks north of Norman on the Mackenzie river. Gypsum is obtained from the Palæozoic rocks of Manitoba and also occurs in northern Alberta.

**Western Cordillera.**—In the western Cordillera is a very thick complete succession of sediments of Precambrian, Palæozoic, Mesozoic and Tertiary ages.

The Rocky mountains consist of a series of great fault blocks in which an enormous thickness of Palæozoic and Mesozoic sediments is exposed. Many thrusts of great extent have resulted in an over-riding of the Mesozoic sediments by the Palæozoic, and the erosion of the softer strata of the former has produced longitudinal valleys between the harder Palæozoic blocks. The Palæozoic formations consist mainly of limestones with less amounts of sandstone and shale. A succession with few breaks from the Cambrian through the Ordovician, Silurian, Devonian and Carboniferous is found, and probably extends with certain deviations throughout the length of the Rocky mountains and Mackenzie mountains. Between the Cambrian and Precambrian beds there is apparently little angular unconformity, but the variation horizontally in the Precambrian strata, on which the Cambrian formations rest, and a similar variation in the ages of the over-lying Cambrian strata furnish evidence of a long period of erosion. The Mesozoic strata consist of soft shales and sandstones some of which are coal-bearing. Strata of Triassic, Jurassic, and Cretaceous ages are represented.

The mountains to the west of the Rocky Mountain trench in southern British Columbia are composed of a series of late Precambrian quartzites, slates and magnesian limestones of great thickness. There are wide areas in the vicinity of granitic intrusives in which intensive alteration of these sediments has taken place. The Precambrian rocks extend west as far as Upper Arrow and Shuswap lakes and north from the International Boundary probably half the length of the province. Quartzites, mica schists and crystalline limestones with interbands and broad areas of schists of various kinds, and intrusive granite gneiss are found over a wide stretch of the Yukon plateau and are probably of Precambrian age. Slates, quartzites and conglomerates, also probably of the same age, occur along the northern part of the Alaska-Yukon boundary, in the Ogilvie range and in the Kluane district.

On the interior plateau of British Columbia, limestones, quartzites and argillites of Carboniferous age and known as the Cache Creek group are of wide distribution. These are succeeded upward by argillites and limestones and a great mass of volcanic intrusives and effusives of Triassic age, and these are succeeded by sediments and volcanics of Jurassic age. The Triassic and Jurassic formations are widely distributed, are found on the islands to the west, and some at least extend into Yukon.

Formations of Cretaceous age are found on Vancouver and Queen Charlotte islands and in a belt extending up the Fraser and along the eastern edge of the Coast range into the Skeena valley. They are mainly formations of continental origin and carry coal seams, but also include sediments of marine origin and volcanics.

Very early Tertiary times were characterized by widespread orogenic disturbances in the Cordillera. The Rocky mountains were formed and there was much folding and faulting in places in the interior, followed by intense erosion. Tertiary sediments, partly of continental deposition with seams of lignite and partly of marine deposition, occur at many points throughout the interior of the Cordillera and on Vancouver island. Lava flows capping some of these sediments cover broad stretches of the interior plateau.

In Pleistocene time, nearly the whole of the Cordillera with the exception of a large area in Yukon was subjected to glaciation, and glaciation still persists in the mountainous regions. Volcanics of recent age are found in areas of limited extent.

An episode of great economic importance in the geological history of the West was the intrusion of the granitic rocks of the Coast Range batholith and of acid rocks at different points in the interior, particularly in the southern part of British Columbia in Mesozoic times. Many of the more important mineral deposits of British Columbia, such as the copper deposits of Hidden Creek, Britannia and Allenby mountain, the gold-silver deposits of Salmon River district and the silver-lead deposits of the Slocan, had their origin in solutions given off by the magmas of these acid intrusives.

The lead-zinc deposit of the Sullivan mine lies in sedimentary rocks of Precambrian age. The Cretaceous and Tertiary formations carry seams of coal and lignite of great importance. There are economic deposits of other minerals in great variety throughout the Cordillera, and British Columbia is one of the leading mineral-producing provinces of Canada. The gold of the once famous Klondike region was found in placers of an unglaciated area and the gold of the Cariboo district occurs mainly in Tertiary placers that were unaffected or little affected by glaciation.



## Section 2.—Economic Geology of Canada, 1932 and 1933.\*

The purpose of this paper, continuing a series which has been published in the Year Book over many years, is to call attention to the most important reports and articles treating of the economic geology of Canada and published during 1932 and 1933. The particular articles here referred to, although recently published, do not necessarily contain the best and most complete information on the subjects treated. For further information it is advisable to consult the Dominion and Provincial Departments of Mines. The reference numbers appearing throughout the text indicate the publishers as listed at the end of this paper.

**Asbestos.**—In a bulletin of the Department of Mines of British Columbia, a description is given by A. M. Richmond of asbestos deposits of British Columbia. The available data upon these deposits is not encouraging; the fibre in general is unsuited for anything but the lowest grade products.

An examination of the geology and asbestos deposits of Thetford map-area, Quebec,<sup>1</sup> is made by H. C. Cooke. Cambrian sericite and chlorite schists, quartzite, basaltic lavas, and grey, green, and red slates, Ordovician black slates and impure quartzites, and post-Ordovician serpentinized dunite, peridotite, pyroxenite, and granite underlie the area. Alteration of the igneous rocks, faulting, the asbestos veins and other veins, and origin and localization of the asbestos deposits are described. Magnetometer observations made by A. H. Miller are also incorporated.

**Barite.**—In a bulletin of the Department of Mines of British Columbia, A. M. Richmond provides a description of barite deposits of British Columbia. Barite occurring in these deposits would have to be concentrated to be rendered suitable for industrial purposes; markets outside the province are difficult to reach on account of excessive haulage costs; and the United States tariff prevents shipping into that country.

**Chromite.**—A report is made by M. E. Hurst upon the chromite deposits of Obonga Lake area, Thunder Bay district, Ontario.<sup>3</sup> The basement complex, consisting of volcanics and sediments, is intruded successively by pre-Algonian peridotite, Algonian granite, granite gneiss and pegmatites, and Keeweenawan diabase. Keeweenawan dolomite also occurs in the area. The chromite deposits are associated with a lenticular mass of serpentine and are found close to the contact. The concentrations of chromite are of two types, disseminated and massive.

**Clays.**—A report upon some undeveloped clay deposits of British Columbia by A. M. Richmond, is presented in a bulletin of the British Columbia Department of Mines. There are many undeveloped common clay deposits suitable for the manufacture of common red brick. Summarized information concerning them and other clay deposits may be found in this report.

A comprehensive study of the clay and shale resources of Turner valley and nearby districts, Alberta,<sup>2</sup> is afforded by W. G. Worcester. The examination of these clay deposits was undertaken with the hope that clays and shales of a kind of quality to warrant their development along commercial lines might be found, thereby helping to provide a market for part of the gas now being wasted. Notwithstanding the many deposits of excellent red-burning shales in the area, their commercial development at this time is not to be recommended on account of lack of suitable transportation and uncertainty of markets for finished products.

\*Contributed by P. J. Moran, B.Sc., Geological Survey, Department of Mines, Ottawa.

"Some Clay Deposits of Willowbunch Area, Saskatchewan",<sup>1</sup> is the subject of a report by F. H. McLearn. Refractory and semi-refractory clays occur at two horizons. The lower is that of the Whitemud formation of late Cretaceous age and the higher that of the Willowbunch member of Palæogene age.

A description of the refractory clays of northern Ontario<sup>5</sup> is provided by W. S. Dyer and A. R. Crozier. The clays all belong to the Mattagami or Lower Cretaceous age and occur within a structural depression or basin, the boundaries of which have never been defined but which appear to cover at least 1,500 square miles of territory.

**Coal.**—B. R. MacKay describes the Corbin coal field, British Columbia<sup>1</sup> and the geology and coal deposits of the Crowsnest Pass area, Alberta.<sup>1</sup> The Corbin field is one of the smallest and at the same time one of the principal producing coal areas in southwestern British Columbia and has gained prominence on account of the great original thickness of one of its coal seams and the remarkable concentration of coal in a small area that has occurred through intense folding and faulting of the measures. The Crowsnest Pass coal area is one of the most important steam-coal producing districts in Alberta. The coals occur on the Lower and Upper Cretaceous ages; they are of bituminous rank and range in quality from poorly coking to strongly coking.

**Copper.**—Reports upon some of the mineral properties of the Taku district<sup>1</sup> and upon explorations between the Stikine and Taku rivers, British Columbia,<sup>1</sup> are made by F. A. Kerr. Practically all observed deposits are in the main replacement lenses of pyrite, sphalerite, chalcopyrite, and galena in volcanics.

An examination of the Nimpkish Lake quadrangle, Vancouver island, British Columbia<sup>1</sup> is made by H. C. Gunning. The most important mineralization is in Quatsino limestone in the immediate vicinity of intrusives. They are contact metamorphic deposits containing as valuable minerals, chalcopyrite, zinc-blende, sphalerite, galena, with minor amounts of grey copper, and low values in gold.

H. C. Gunning also presents a study of Buttle Lake map-area, Vancouver island, British Columbia.<sup>1</sup> Schistified zones in volcanics are mineralized by pyrite, chalcopyrite, sphalerite, galena with minor amounts of grey copper, and low gold and silver values. Native copper is found in volcanics at Coal creek.

A summary of the geology and mineral resources of northwest Manitoba<sup>1</sup> is furnished by J. F. Wright. Sulphide replacement bodies are found in volcanics, sediments, and sedimentary gneisses; gold quartz veins are found in volcanics, sediments, and in the granites. A detailed description of the geology and progress of development of all important prospects and mines in the area is given.

L. J. Weeks outlines the geology of Rankin Inlet area, west coast of Hudson bay, Northwest Territories.<sup>1</sup> On the south shore of Johnston bay a deposit of copper and nickel sulphides carrying traces of platinum occurs near the base of a lenticular mass of serpentinized basic intrusive.

A description of the Cape Smith sulphide deposits, upper east coast of Hudson bay, Quebec<sup>4</sup> is given by W. B. Airth. In the vicinity of a huge mass of gabbro intruding lava flows are found extensive deposits of massive sulphides containing pyrrhotite with minor amounts of pyrite, arsenopyrite, and chalcopyrite.

The geology of the southern part of Opimiska map-area, Quebec<sup>1</sup> is described by C. Tolman. The most important deposits so far discovered occur in compara-

tively narrow zones of shearing traversing volcanics and sediments or the intermediate and basic rocks intruding them. The metallic minerals are mainly chalcopyrite, pyrite, pyrrhotite, and magnetite.

E. L. Bruce presents a study of the geology and ore deposits of the Arntfield-Aldermac map-area, Beauchastel township, Quebec, in the Annual Report of the Quebec Bureau of Mines. The consolidated rocks of the northern part of the township are chiefly volcanic flows which are intruded by masses of quartz diorite, granitic rocks of various types, and diabase. In the southern part, occupied by the Kekeko hills the rock is conglomerate of the Cobalt series. Deposits of metallic minerals are of two kinds: (1) replacements of shear zones by gold-bearing pyrite and quartz; (2) massive sulphide bodies consisting chiefly of pyrite and pyrrhotite but containing some chalcopyrite and a little gold.

A study of the Waite-Ackerman-Montgomery property, Duprat and Dufresnoy townships, Quebec,<sup>5</sup> is made by J. E. Gill and N. R. Schindler. The known ore deposits occur in volcanics and consist of sulphide lenses arranged in a stack near a high angle fault.

H. W. Fairbairn briefly describes some recent developments in southern Quebec.<sup>1</sup> At South Stukeley, bornite and chalcopyrite are found disseminated in marble; at the Memphremagog mine, four miles east of Bolton, a massive sulphide body mostly pyrrhotite but containing a small amount of chalcopyrite, lies between a black slate and a fine grained igneous rock and copper-lead-zinc sulphides occur in the vicinity of Leadville on the west side of lake Memphremagog.

**Gold.**—The search for gold in Canada, which has been actively prosecuted for the past few years, is increasing in intensity as the demand for the metal becomes greater on account of the premium in currency which obtains for gold.

H. C. Cooke and W. A. Johnston present a concise résumé of the geology of lode and placer deposits in the Dominion,<sup>1</sup> and the gold industry of Canada is comprehensively reviewed by A. H. A. Robinson.<sup>2</sup>

H. S. Bostock provides a brief statement of the mining industry of Yukon, 1932<sup>1</sup> and upon a gold strike northwest of Carmacks, Yukon.<sup>1</sup>

Lode gold developments in British Columbia are summarized by J. D. Gallo-way and others in a bulletin of the Department of Mines of British Columbia.

A description of Whitewater gold belt, Taku River district, British Columbia,<sup>1</sup> is given by F. A. Kerr. In replacement zones in volcanics are found pyrite, stibnite, and arsenopyrite. Gold appears to be intimately associated with arsenopyrite.

An examination of the Zeballos River area, Vancouver island, British Columbia<sup>1</sup> is made by H. C. Gunning. Contact metamorphic deposits in sediments and volcanics carry copper and zinc; free gold is found in quartz or quartz and calcite veins associated with pyrrhotite, pyrite, arsenopyrite, zinc-blende, chalcopyrite and galena.

A report upon an examination of part of Cadwallader Creek mining area, Lillooet district, British Columbia<sup>1</sup> is written by W. E. Cockfield. Quartz veins containing minor amounts of sulphides, tellurides, and free gold are found in augite-diorite. The Pioneer and Bralorne properties are located in this area.

A summary of the gold deposits of Manitoba<sup>1</sup> is afforded by A. H. McLaren. The known mineral deposits of importance lie in schists close to granite bodies and consist of sulphide replacement bodies and gold-bearing quartz veins.



The geology and ore deposits of Island Lake and Oxford House areas<sup>1,5</sup> and of Amisk Lake area, Manitoba<sup>1</sup> are indicated by J. F. Wright. Quartz veins carrying free gold and small quantities of sulphides and schistose rock carrying disseminated sulphides are found in the areas.

The vicinity adjoining Rice lake, Manitoba, is occupied by an irregular wedge-shaped roof pendant of metamorphic sedimentary and igneous rocks, enclosed within granite and granite gneiss, all of Precambrian age. A description of the San Antonio mine<sup>5</sup> in this area is given by J. A. Reid and D. J. Kennedy. Free gold associated with pyrite is found in quartz stringers, lenses, and veins in carbonized greenstone.

Available information upon metalliferous possibilities of the mainland portion of the Northwest Territories, outside of Great Bear Lake area,<sup>1</sup> is summarized by C. H. Stockwell and D. F. Kidd.

M. E. Hurst provides a description of the geology of the Sioux Lookout area,<sup>3</sup> Kenora district, Ontario. Sediments and greenstones are invaded by small bodies of quartz porphyry, syenite, and diorite. Mineralization occurs in the form of quartz veins or pyrite replacement zones occupying fractures or shear zones in the greenstones and sediments.

A preliminary study of the Kowkash-Ogoki gold area, Thunder Bay district, Ontario<sup>3</sup> is made by L. F. Kindle. Gold is found in sheared veins of quartz occupying fissures passing through Keewatin greenstones in which rhyolite and iron formation are commonly interbedded, and in mineralized quartz veins which impregnate quartz and feldspar-porphyry dykes. The deposits are generally a combination of these two types. Silver, copper, and iron are also found in the vicinity.

E. S. Moore reports upon the Goudreau and Michipicoten gold area, Algoma district, Ontario.<sup>3</sup> Quartz and sometimes carbonate and quartz fissure veins carrying gold values occur in sheared portions of greenstone and acid lavas and in sheared and brecciated parts of Algonian intrusives.

The geology of the McIntyre mine, Porcupine area, Ontario, by H. G. Skavlem is incorporated in an article entitled "The Story of McIntyre".<sup>6</sup>

The outstanding features of Hollinger geology<sup>5</sup> are indicated by L. C. Gratton and H. E. McKinstry.

A study of the Tyrell-Knight area, Timiskaming district, Ontario,<sup>3</sup> is made by A. R. Graham. Gold-quartz veins are found filling shear zones in volcanics adjacent to granodiorite or dyke rocks.

Bannockburn gold area, Matachewan district, Ontario<sup>3,5</sup> is the subject of papers by H. C. Rickaby. Quartz veins of the fissure type carrying gold values are found in fractures and faults of small displacement mostly in greenstone and close to intrusives.

The geology of the Swayze area<sup>3</sup> and its westward extension<sup>3,4,5</sup> are described by G. D. Furse and H. C. Rickaby. The essential features of all discoveries appear to be favourable structures in form of fractures or shear zones in lavas or sediments combined with the proximity of porphyry or granite intrusions. Gold-bearing quartz veins mineralized with minor amounts of chalcopyrite, galena, sphalerite, and molybdenite are found in the vicinity. Some gold showings are spectacular.

In a report entitled "The Geology of Three Duck Lakes Area, Sudbury District, Ontario",<sup>3</sup> H. C. Laird states that narrow gold-bearing quartz veins occupy well-defined fractures or 'breaks' in the younger granite, or in quartz veins along the contact between an acid intrusive and a basic dyke, commonly lamprophyre.

A description of the geology of the townships of Janes, McNish, Pardoe, and Dana, Sudbury district, Ontario,<sup>3</sup> is given by E. L. Bruce. Veins containing some gold are found in diabase.

R. C. Rowe describes the geology of the Kenty gold prospect,<sup>4</sup> as consisting of Keewatin lavas, bounded north and south by steeply folded ancient sediments, which have been intruded by a large mass of porphyry. The gold-bearing veins occur in a fracture zone which has an approximate length of 500 feet and a width that has not yet been determined. Visible gold is partly associated with tourmaline or pyrite and sometimes it occurs within the quartz and sometimes in quartz crystals.

"Gold Prospecting, Rouyn-Bell River Region, Quebec"<sup>4</sup> by A. H. Lang, provides a popular summary of existing knowledge of gold deposits in this vicinity.

R. C. Rowe describes the geology, mining methods, and milling practice at the Beattie gold mine, Duparquet township, Quebec.<sup>4</sup>

J. J. O'Neil presents the results of a detailed investigation of the Beattie gold mine, in the Annual Report of the Quebec Bureau of Mines. Keewatin lavas and tufaceous sediments, intruded by syenite porphyry and bostonite porphyry, occupy the vicinity. The main Beattie ore body lies on the north border of the syenite porphyry in a sheared zone which is partly in the syenite porphyry and partly bordering bostonite porphyry.

The geology and ore deposits of Palmarolle and Taschereau map-areas, Abitibi county, Quebec<sup>1</sup> are described by A. H. Lang. Mineral deposits discovered to date are quartz veins, shear zones, and replacements, containing disseminated sulphides. A description of the geology of the Beattie mine is incorporated.

A description of the gold deposits of Pascalis and Louvicourt townships, Abitibi county, Quebec,<sup>5</sup> is given by L. V. Bell. The more important deposits may be divided into two classes as follows: quartz-tourmaline veins carrying pyrite and gold and silicified, carbonated, and pyritized bodies carrying gold.

J. E. Hawley gives a description of the Siscoe gold deposit, Dubuisson township, Quebec.<sup>5</sup> The deposits consist of auriferous quartz-tourmaline veins of the fissure-filled type occurring in altered granodiorite.

A detailed description of the gold and copper deposits of Dubuisson township, Quebec, by J. E. Hawley, appears in the Annual Report of the Quebec Bureau of Mines. Gold quartz veins are found in or close to small stocks or tongues of granodiorite or related rocks and in fractures in Keewatin rocks near the intrusive. The veins consist of the following types: quartz and tourmaline, quartz-pyrite-carbonate, quartz-chalcopyrite, and quartz-pyrite-galena-carbonate.

E. A. Goranson describes the mineral deposits of New Ross, Indian Path, Middle River, and Meat Cove, Nova Scotia.<sup>1</sup> At Middle River, auriferous quartz veins occur in metamorphosed, arenaceous, and argillaceous sedimentary rocks which are probably of Precambrian age; manganese mineralization occurs along steeply dipping fissures in a porphyritic biotite granite at New Ross; the Indian Path scheelite deposit occurs in quartz veins near the crest of an anticline. The country rocks are slates and argillites.

**Gold Placers.**—An article by W. E. Cockfield is written upon the geology of placer deposits.<sup>5</sup> The requisites for formation of placer deposits are: the occurrence of gold in veins or lodes in the country rock, a period of erosion during which

the gold is set free from the country rock, concentration of gold by some agency, but chiefly that of running water, and freedom from glaciation. The last requisite although not absolutely essential is at least highly desirable.

The mining industry in Yukon and parts of northern British Columbia in 1930<sup>1</sup> is summarized by W. E. Cockfield. Dredges are operating in the Klondike district and Sixtymile area, Yukon; placer developments are continued on Otter creek, and Pine creek, Atlin district, British Columbia and the Mayo district, Yukon, furnished the only production from lode mining during the year. An account of a number of operating lode deposits in the Yukon and Atlin districts is given, including latest developments at the Engineer and Ruffner properties.

In a report by H. S. Bostock upon the Livingston placer camp, Yukon,<sup>1</sup> a description of the various creeks and factors that led to the formation and preservation of the deposits are provided.

Douglas Lay in a bulletin of the British Columbia Department of Mines, makes some comments upon the McConnell Creek placer area, British Columbia, in which fine gold and platinum are found. The placer ground at present receiving attention is a concentration of glacial deposits.

Placer and lode gold deposits at Barkerville, Cariboo district, British Columbia, by W. A. Johnston and W. L. Uglow<sup>1</sup> provides a summary of information concerning known gold deposits in the vicinity.

The geology and placer deposits of Quesnel Forks area, Cariboo district, British Columbia,<sup>1</sup> are described by W. E. Cockfield and J. F. Walker. Placer gold is found in ancient stream or pre-glacial gravels, in glacial gravels, in interglacial deposits, and in post-glacial gravels. A description of deposits occurring in the various streams is given.

A study of the geology of the Brisco-Dogtooth map-area, British Columbia,<sup>1</sup> is submitted by C. S. Evans. Late Precambrian to Devonian strata are exposed within the map-area. The only igneous rocks observed are thin flows of Lower Cambrian age and several highly altered beds of volcanic origin occurring in late Precambrian strata. Placer gold and lead-zinc deposits are found in the vicinity.

Articles upon the mineral possibilities of northern Okanagan<sup>1</sup> and the Monashee Creek placers<sup>4</sup> are written by C. E. Cairnes. Placer gold values are found in several creeks; developments upon bench leases on Monashee creek have been encouraging.

An examination of some mineral occurrences in the vicinity of Cranbrook, British Columbia<sup>1</sup> is made by C. E. Cairnes. Placer gold, gold-quartz, silver-lead-zinc, and copper-gold deposits, magnesite, and ornamental stone occur in the area.

**Iron.**—A study of a deposit of titaniferous magnetite near Burmis, Alberta, by J. A. Allan, appearing in the Annual Report of the Research Council of Alberta, indicates that the quantity of iron rock is relatively small and that the occurrence cannot be regarded as a commercial deposit at the present time.

W. M. Goodwin describes the results of a magnetic survey of Steeprock lake, Ontario,<sup>4</sup> made by Julian Cross. The evidence of the survey appears to indicate that two bodies of hæmatite lie beneath the surface of the lake.

M. E. Hurst provides a description of a deposit of titaniferous magnetite in Angus township, Nipissing district, Ontario.<sup>3</sup> The body of diabase in which the deposit lies is a "Y" shaped mass about four miles long and from one half to one and a half miles wide. It is surrounded by granite gneiss.



A study of the genesis of the ilmenite deposits of St. Urbain, Charlevoix county, Quebec,<sup>7</sup> is made by Joseph L. Gillson. The author concludes that the ores were formed by replacement in the already solid anorthosite and were deposited from solutions, either gaseous or liquid, which soaked through the rock.

**Lead.**—A report is made by H. C. Gunning upon the H.P.H. group, Nahwitti lake, Vancouver island, British Columbia.<sup>1</sup> Mineralization of the replacement type occurs in limestone. The most important and common type consists of galena and sphalerite; in some places small quantities of pyrite, pyrrhotite, and chalcopyrite are present.

The Clearwater River and Foghorn Creek map-area, Kamloops district, British Columbia,<sup>1</sup> is described by J. F. Walker as being underlain by argillaceous, arenaceous, and calcareous sediments, showing varying degrees of metamorphism, and intrusive granodiorite, granite, greenstone, and numerous granitic dykes and sills. The sedimentary rocks are of Precambrian, Paleozoic, and Tertiary age; the intrusive rocks appear to be Mesozoic. Most of the mineral deposits occur in sedimentary rocks and consist of small quartz-sphalerite-galena veins and small replacements and disseminations of sphalerite and galena in quartzose sediments. There is one occurrence of chalcopyrite with pyrite in the bedded quartz veins and disseminations in the adjacent country rock. Fluorspar and celestite occur as disseminated replacements in the contact phase of an aplitic intrusion.

**Manganese.**—A compilation of available information upon manganese in Canada<sup>1</sup> is presented by George Hanson. The known manganese deposits of the Dominion are confined chiefly to the Maritime Provinces and to British Columbia. In other parts of Canada there are only a few small non-commercial bog deposits.

**Molybdenite.**—The Annual Report of the Quebec Bureau of Mines contains a report by J. E. Hawley upon molybdenite deposits of Lacorne township, Abitibi county, Quebec. The bed rocks of the area consist of pre-Keewatin sedimentary and hornblende schist, Keewatin volcanics, and pre-Cobalt intrusives. The molybdenite occurs in quartzose to feldspathic veins or pegmatites.

**Nickel.**—A preliminary report upon the geology of Great Slave Lake-Coppermine River area, Northwest Territories,<sup>1</sup> is provided by C. H. Stockwell. Precambrian volcanics, sediments and intrusives are found in the area. A nickel-cobalt deposit east of François river and other mineralization found in the area are described.

A paper upon the origin of the Frood ore deposit, Sudbury district, Ontario,<sup>7</sup> is submitted by B. C. Freeman. Mr. Freeman concludes that the Frood ore is not in norite but in reorganized greywacke gabbro and greenstone, that the rocks were altered by ore-depositing agencies, which caused the formation of hornblende, biotite, quartz and andesine, that the four main ore minerals—chalcopyrite, cubanite, pyrrhotite and pentlandite—were formed essentially simultaneously and that the ore body is a magmatic deposit, but it is not wholly the result of crystallization from the melt.

**Oil and Gas.**—The oil possibilities of Soda creek and Quesnel, Cariboo district, British Columbia,<sup>1</sup> are described by W. E. Cockfield. The chief interest from the point of view of petroleum and natural gas production lies in the rocks of the Fraser River formation of Tertiary age. As all the evidence points to a freshwater origin for the rocks of this formation and as there is no evidence of closely associated marine sediments which may have served as a source of oil, it must therefore be

concluded that the chances of securing commercial supplies of petroleum are not very bright. It is possible some natural gas may be found but it is unlikely that large supplies exist.

A detailed report upon the Milk River area and the Red Coulee oil field, Alberta, is submitted by C. S. Evans.<sup>1</sup> The rocks in the area range from Jurassic to Upper Cretaceous. Logs of wells drilled in the area are incorporated.

B. R. MacKay presents a study of the Mesozoic-Palaeozoic contact and associated sediments, Crowsnest district, Alberta, and British Columbia.<sup>1</sup> Operations carried on in Turner valley and other oil fields in Alberta have demonstrated that oil occurs in both the Mesozoic and Palaeozoic measures and that one of the most important horizons is at or near the Mesozoic-Palaeozoic contact. With the object of gradually accumulating data pertaining to the nature and extent of any unconformities that exist and the changes in thickness and lithological character of the associated sediments that takes place, this examination has been undertaken.

A preliminary study of the oil and gas possibility of the Waterton Lakes-Flathead area, Alberta, and British Columbia,<sup>1</sup> is made by G. S. Hume.

The stratigraphy and structure of the east portion of the Blood Indian Reserve Alberta,<sup>1</sup> is indicated by Loris S. Russell.

A detailed description of oil prospects of Fisher Creek, Two Pine, and Birch Ridge structures, eastern foothills of Alberta,<sup>1</sup> is given and the oil prospects of Great Slave Lake and MacKenzie River areas, Northwest Territories<sup>5</sup> are summarized by G. S. Hume.

An inventory of available data upon oil and gas in Eastern Canada<sup>1</sup> is also made by G. S. Hume. A chapter upon the origin of oil and gas is followed by a comprehensive description of the southern Ontario oil fields; physical features, stratigraphy, structural geology, history of development, and relation of oil and gas production to the stratigraphy are summarized. The stratigraphy, structural geology, and oil and gas prospects of the Moose River basin, the Eastern St. Lawrence region, the Gaspé peninsula and the Maritime Provinces is also described.

**Phosphate.**—L. Telfer presents a paper upon phosphate in the Canadian Rockies.<sup>5</sup> During Palaeozoic time there were deposited in the Canadian Rockies four beds of phosphate rocks, ranging in age from Mississippian to Jurassic. Two of these beds are of probable economic importance if some means of separating the phosphate from the gangue can be devised.

**Radium.**—H. V. Ellsworth presents a comprehensive treatise upon rare-element minerals of Canada.<sup>1</sup> The chemical and physical properties of metals in this group are stated, the geology is outlined, and the Canadian occurrences indicated. Of especial interest at the present time are two chapters upon radioactivity, radio-elements, and radioactive minerals as geological age indicators.

Accounts of the Great Bear Lake and Coppermine River areas, MacKenzie district, Northwest Territories<sup>1,4,5,7</sup> are given by D. F. Kidd. Copper is found as disseminated native copper in basalts, as amygdaloidal copper in tops of volcanic flows, as sheet native copper in cracks in the basalt, and in large quartz veins in volcanic rocks of the Coppermine River series. Pitchblende associated with silver and silver deposits without pitchblende are found in shear zones in folded sediments and volcanics.

Hugh S. Spence provides a description of the character of the pitchblende ore from Great Bear lake, Northwest Territories.<sup>4,2</sup> Spence classifies the vein types occurring in the areas as: pitchblende-quartz veins, silver-carbonate veins, silver-cobalt-carbonate veins, and cobalt-bismuth-quartz veins.

J. A. Reid also provides a statement upon the geology and mineralization of the Echo Bay region, Great Bear lake, Northwest Territories.<sup>4</sup>

Christopher Riley points out some mineral relationships in the Great Bear Lake area, Northwest Territories.<sup>4</sup> Precambrian volcanics and sediments are intruded by diorite, granite, granite porphyry, rhyolite porphyry, quartz veins, and basic dykes and sills. The most favourable prospecting ground is near the contact of the granites and sedimentaries and volcanics.

**Salt.**—A short article entitled the "Salt Deposits of Nova Scotia and New Brunswick",<sup>1</sup> by G. W. H. Norman, deals with all known deposits of salt in the Mississippian rocks in these provinces. It is pointed out that further deposits may be established by drilling.

**Silica.**—A bulletin of the British Columbia Department of Mines includes a survey by A. M. Richmond of the possibilities of manufacturing bottles and glassware in the province. Deposits of fuel, lime, and sodium salts suitable for glass manufacture exist; deposits of silica sand suitable for glass-making have not yet been found close to transportation.

**Silver.**—The geology of the Bowser River area, Portland Canal district, British Columbia,<sup>1</sup> is described by George Hanson. Those in American Creek area are in the main of the silver-lead type carrying gold values. The deposits of Bowser River country appear to contain more gold than those in the American Creek area.

C. E. Cairnes provides studies of Lightning Peak area, St. Paul group of mineral claims, and mineral deposits of Aberdeen mountain, Osoyoos district, British Columbia.<sup>1</sup> Attractive mineralization, containing important percentages of lead, zinc, and gold values in small amounts, is found in the Lightning Creek area. Quartz veins occur carrying in places free gold and in other places high values in silver and some gold in the St. Paul group.

Aberdeen mountain is underlain by dark grey argillaceous beds interbedded with quartzite strata, limestone, tuffs, and beds resembling conglomerates. Overlying this assemblage of stratified rocks is a wide belt of igneous rocks chiefly of volcanic origin. A quartz ledge carries galena, pyrite, and chalcopyrite.

Some notes on Wallace Mountain camp, Beaverdell area, British Columbia<sup>5</sup> are provided by A. W. Davis. Ore deposits, in which high grade silver predominate, occur in shear zones in quartz diorite. In some cases there is an abundance of pyrite and ruby silver, in others much galena, and in still others quartz is the main constituent.

**Water.**—D. C. Maddox affords a summary of the Darmody-Riverhurst artesian area, southern Saskatchewan.<sup>1</sup> With exception of a few scattered outcrops of Cretaceous shales and sandstones, the area is underlain by glacial deposits. The limits of the artesian area, general structural conditions, and water levels are outlined. A list of wells in the area is appended.

R. T. D. Wickenden submits a study of interglacial deposits in southern Saskatchewan.<sup>1</sup> The interglacial sands and gravels are of importance as a source of ground water supply at many places, for example at Regina, where the city supply is derived from deposits of this character.



Ground water resources of Moose Jaw, Saskatchewan<sup>1</sup> is the title of an article by W. A. Johnston and R. T. D. Wickenden. The surface deposits of the area are the unconsolidated, chiefly glacial deposits which overlie consolidated or partly hardened rocks. The water resources of the clay plain were investigated to some extent as well as those in the vicinity of Moose Jaw. It was found that these were limited in general, but that there is a large artesian water area lying between Moose Jaw and the southern Saskatchewan river. This area may prove to be of importance as a future source of supply not only to Moose Jaw but for the clay plain in general.

A study of artesian water areas of the west half of Rush Lake and the east half of Elbow quadrangles, southern Saskatchewan<sup>1</sup> is provided by D. C. Maddox.

**Miscellaneous.**—J. P. Messervey, in the report of the Nova Scotia Department of Public Works and Mines, surveys operations up to date in the exploitation of antimony deposits in Nova Scotia.

The results of an examination by J. A. Allan of a Paskapoo sandstone at Oliver quarry in the vicinity of Cochrane, Alberta, appearing in the Annual Report of the Research Council of Alberta, indicates a satisfactory building stone.

"Feldspar"<sup>2</sup> by Hugh S. Spence, affords a recent study of the occurrences, and production of feldspar in Canada and foreign countries.

In the Annual Report of the Research Council of Alberta, J. A. Allan describes the gypsum deposits near Mowitch and Rock creeks, Jasper Park, Alberta. The gypsum occurs in lenses in steeply dipping Triassic strata.

B. R. MacKay describes phosphate as being found in several localities in the Crowsnest district, B.C., and Alberta<sup>1</sup> at or near the base of the Fernie formation, Jurassic age. The deposit has its greatest development on the borders of the Fernie coal basin and near Crowsnest station has been opened up by a tunnel over 2,000 feet in length. The grade of the deposit, however, is too low to warrant development at the present time.

SOURCES OF REPORTS AND ARTICLES REFERRED TO IN THE TEXT.—<sup>1</sup>Geological Survey, Department of Mines, Ottawa, Ontario; <sup>2</sup>Mines Branch, Department of Mines, Ottawa, Ontario; <sup>3</sup>Department of Mines, Toronto, Ontario; <sup>4</sup>*Canadian Mining Journal*, Gardenvale, Quebec; <sup>5</sup>Canadian Institute of Mining and Metallurgy, Drummond Building, Montreal, Quebec; <sup>6</sup>*Engineering and Mining Journal*, New York; <sup>7</sup>*Economic Geology*, New Haven, Conn., U.S.A.

### PART III.—SEISMOLOGY IN CANADA.

An article on Seismology in Canada, by Ernest A. Hodgson, M.A., appeared at p. 37 of the Canada Year Book, 1931.

### PART IV.—THE FLORA OF CANADA.

Under the above heading the Canada Year Book, 1922-23, contained an article prepared by the late J. M. Macoun, C.M.G., F.L.S., and M. O. Malte, Ph.D., and revised by the latter. See p. 25 of the 1922-23 edition or p. 73 of the 1921 edition.

### PART V.—FAUNAS OF CANADA.

The Canada Year Book, 1922-23, contained an article under the above heading by P. A. Taverner, of the Department of Mines, Ottawa. See p. 32 of the 1922-23 edition or p. 82 of the 1921 edition.

### PART VI.—THE NATURAL RESOURCES OF CANADA.

The economic life of new countries must at first depend entirely, and later mainly, upon their natural resources. Older countries, after exhausting their most

easily obtained resources, turn for a livelihood to manufacturing and similar pursuits, conserving their remaining resources and utilizing those of less developed areas as far as practicable.

Canada is distinctly a new country, and her resources are for the most part in the early stages of development. The fur, fishery and forest resources have, it is true, been the basis of trade for two or three hundred years, but exploitation on the present commercial scale is of relatively recent growth. A notable feature, especially in so young a country, has been the effort directed to conservation and, in the cases of those resources which admit of such methods, the actual replenishment or augmentation of the sources of supply by the practice of reforestation, silviculture, fur-farming or the establishment of fish hatcheries.

In recent years numerous surveys and investigations of the extent and value of the resources have been made. A short summary of important details regarding them follows. Fuller information will be found in the introductions to later chapters—Agriculture, Furs, Fisheries, Forestry, Minerals, Water Powers—of this volume.

**Agricultural Lands.**—Of the total land area of the nine provinces (1,282,067,200 acres), it is estimated that approximately 352,157,190 acres are potential agricultural lands, including grazing lands associated with farm lands. The estimate is based on the best information available, which, for the more northerly parts, is uncertain; the total is made up by adding to the area now occupied by agriculturists all lands considered to be possible of devotion to similar purposes. The area at present under cultivation is but a fraction of this total, the extent under field crops in 1934 being 56,042,420 acres, while the total area under pasture in the same year was 8,353,400 acres. Statistics of farm lands at the Census of 1931 place the area then occupied at 163,114,034 acres; the area of what may be considered as agricultural land still available for occupation was, therefore, 189,043,156 acres. In Yukon and the Northwest Territories there were 5,197 acres in occupied farms in 1931, while it is officially estimated that there are 9,000,000 acres of potential agricultural land. Thus the total area of occupied farms in the Dominion in 1931 was 163,119,231 acres and that of potential agricultural land 198,043,156 acres, making a grand total of 361,162,387 acres of agricultural land out of the total land area of 2,218,747,200 acres. Details are given by provinces in Table 7.

**7.—Area of Occupied and Estimated Potential Agricultural Lands in the Nine Provinces and in all Canada, 1931, with Estimated Land Area, 1935.**

| Province.                            | Area Occupied.                 | Area Available for Occupation. | Total Potential Agricultural Land. <sup>1</sup> | Total Land Area, 1935.           |
|--------------------------------------|--------------------------------|--------------------------------|-------------------------------------------------|----------------------------------|
|                                      | acres.                         | acres.                         | acres.                                          | acres.                           |
| Prince Edward Island.....            | 1,191,202                      | 66,988                         | 1,258,190                                       | 1,397,760                        |
| Nova Scotia.....                     | 4,302,031                      | 3,789,969                      | 8,092,000                                       | 13,275,520                       |
| New Brunswick.....                   | 4,151,596                      | 6,566,404                      | 10,718,000                                      | 17,734,400                       |
| Quebec.....                          | 17,304,164 <sup>3</sup>        | 26,440,836 <sup>3</sup>        | 43,745,000 <sup>2</sup>                         | 335,061,760                      |
| Ontario.....                         | 22,840,898                     | 42,996,102                     | 65,837,000                                      | 232,500,480                      |
| Manitoba.....                        | 15,131,685                     | 17,248,315                     | 32,380,000                                      | 140,622,720                      |
| Saskatchewan.....                    | 55,673,460                     | 24,400,540                     | 80,074,000                                      | 152,304,000                      |
| Alberta.....                         | 38,977,457                     | 48,472,543                     | 87,450,000                                      | 159,232,000                      |
| British Columbia.....                | 3,541,541                      | 19,061,459                     | 22,603,000 <sup>2</sup>                         | 229,938,560 <sup>3</sup>         |
| <b>Totals for the Provinces.....</b> | <b>163,114,034<sup>3</sup></b> | <b>189,043,156<sup>3</sup></b> | <b>352,157,190</b>                              | <b>1,282,067,200<sup>3</sup></b> |
| Yukon and N.W.T.....                 | 5,197                          | 9,000,000                      | 9,005,197                                       | 936,680,000                      |
| <b>Grand Totals for Canada.....</b>  | <b>163,119,231</b>             | <b>198,043,156</b>             | <b>361,162,387</b>                              | <b>2,218,747,200</b>             |

<sup>1</sup>These estimates have been made by the Topographical Survey, Department of the Interior.

<sup>2</sup>Subject to revision. <sup>3</sup>These figures have been revised since the publication of the 1933 Year Book.

Thus, in all the provinces but Prince Edward Island, large areas are still available for settlement, and while the nature of the soil and of the climate may in some cases restrict the variety of crops, in general the grain, root and fodder crops can be profitably grown in all the provinces, while stock raising is carried on successfully both in the more densely settled areas and beyond their frontiers.

The Maritime Provinces are noted for their fruit and vegetable crops, particularly for the oat and potato crops of Prince Edward Island and New Brunswick, and the apples of the Annapolis valley in Nova Scotia. Quebec and Ontario are pre-eminently mixed-farming communities, various districts specializing in dairying, tobacco, sheep, etc., while the Niagara peninsula in Ontario has long been famous for its fruit crops of both large and small varieties. In Manitoba, Saskatchewan, and Alberta the production of grains, especially wheat, is still of primary importance but is giving way to more diversified types of agriculture, while the stock-raising industry, once so typical of the prairies, is regaining much of its former importance. In British Columbia the fertile valleys are devoted principally to apple and other fruit crops, and numerous districts along the coast and on Vancouver island are given over to general farming and market gardening.

Of the larger areas of land still available for settlement, the clay belt of northern Ontario and Quebec, which is suited to the growing of splendid crops, is to a large extent undeveloped, and even larger areas in northern Saskatchewan and Alberta await cultivation.

**Forests.**—The forests of Canada rank second only to agriculture in their contribution to the national income. It is estimated that forest products make up about 15 p.c. of all the freight hauled on Canadian railways, and the heavy excess of exports over imports which the wood and paper group provides, amounting to \$123,784,411 for the fiscal year ended March, 1934, constitutes an important factor in Canada's balance of international trade.

Canada's forest area may be roughly divided into three main parts: (1) the great coniferous forest of the Pacific slope, (2) the northern forest, principally coniferous, which stretches from the east slopes of the Rockies, north of the prairies and of the Great Lakes to Labrador, and (3) the mixed softwood and hardwood forests extending from lake Superior through southern Ontario and Quebec to the Maritime Provinces.

Canada's forest area is estimated at 1,153,000 square miles, or 32.8 p.c. of the land area. Some of this is agricultural land, but it is considered that about 1,100,000 square miles is essentially forest land which can best be utilized in the production of wood. Not all of this area can be considered as capable of producing timber at the present time, only some 791,670 square miles being regarded as accessible and productive, of which 412,725 is young growth, leaving 378,945 square miles of land carrying timber of merchantable size. With regard to quantity of timber, the accessible stand has been estimated at 165,846 million cubic feet, or 290,230 million feet board measure of saw timber and 920,335,000 cords of pulpwood, cordwood, etc. The stands in Eastern Canada make up 64.3 p.c. of the total, those in British Columbia account for 24.2 p.c., leaving 11.5 p.c. of the accessible timber in the Prairie Provinces. During recent years the annual drain on our forest resources (estimated at 2,812,000,000 cubic feet in 1932) has generally exceeded the new growth. This annual depletion includes enormous losses which have been caused by fire and other destructive agencies. In spite of



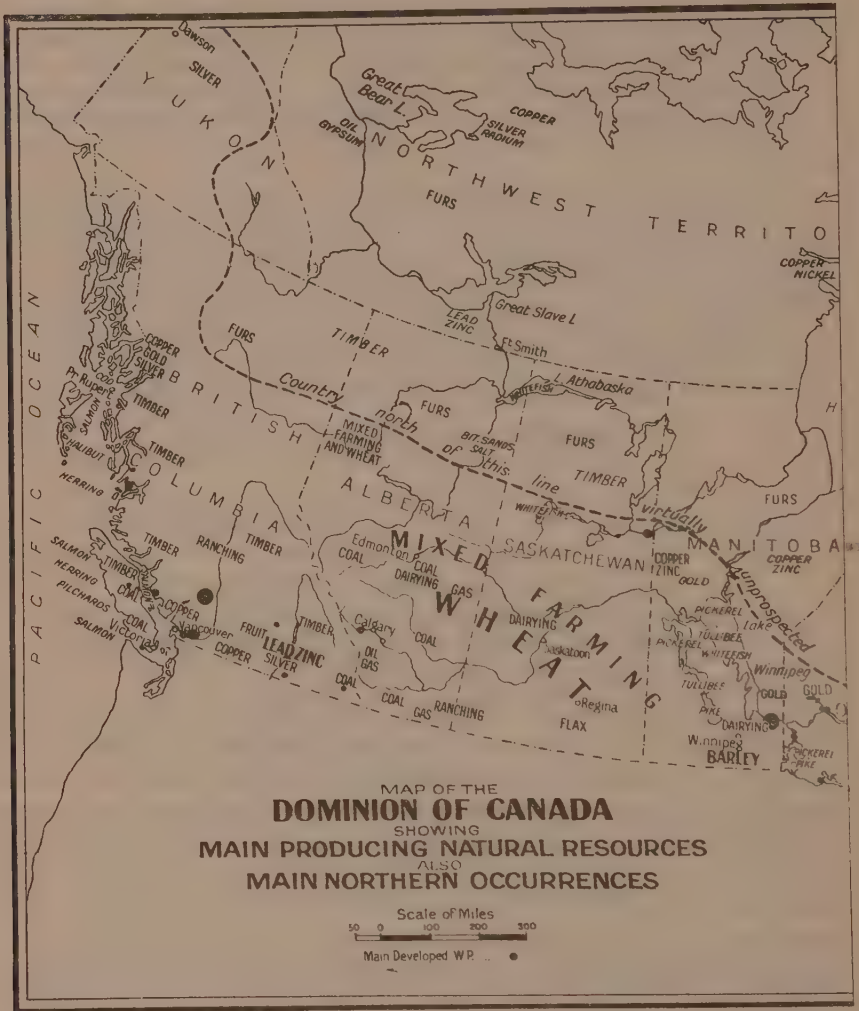
the vast extent of the uncut and unburned forests it cannot be said that the measures so far taken by legislation and the application of scientific forestry to preserve them and encourage their reproduction have been sufficient to assure us an adequate supply of timber for the future. Yet an annual increment of 10 cubic feet per acre, which is quite possible under forest management, would provide in perpetuity for the needs of a population of 26 millions at the present annual rate of use.

A classification of Canada's forest area is given in Table 8. The total of forest land is divided into the areas at present carrying timber of merchantable sizes or valuable young growth, and other areas unsuited for present exploitation. It may be pointed out, however, that many of these latter will develop into productive areas as the demand increases and transportation facilities are extended. The totals of forest land given in this table refer to areas which are on the whole better suited to forest production than to any other purpose, although they include about 26,652 square miles of occupied agricultural land at present covered with forest.

8.—Classification of Forest Land in Canada, 1933.

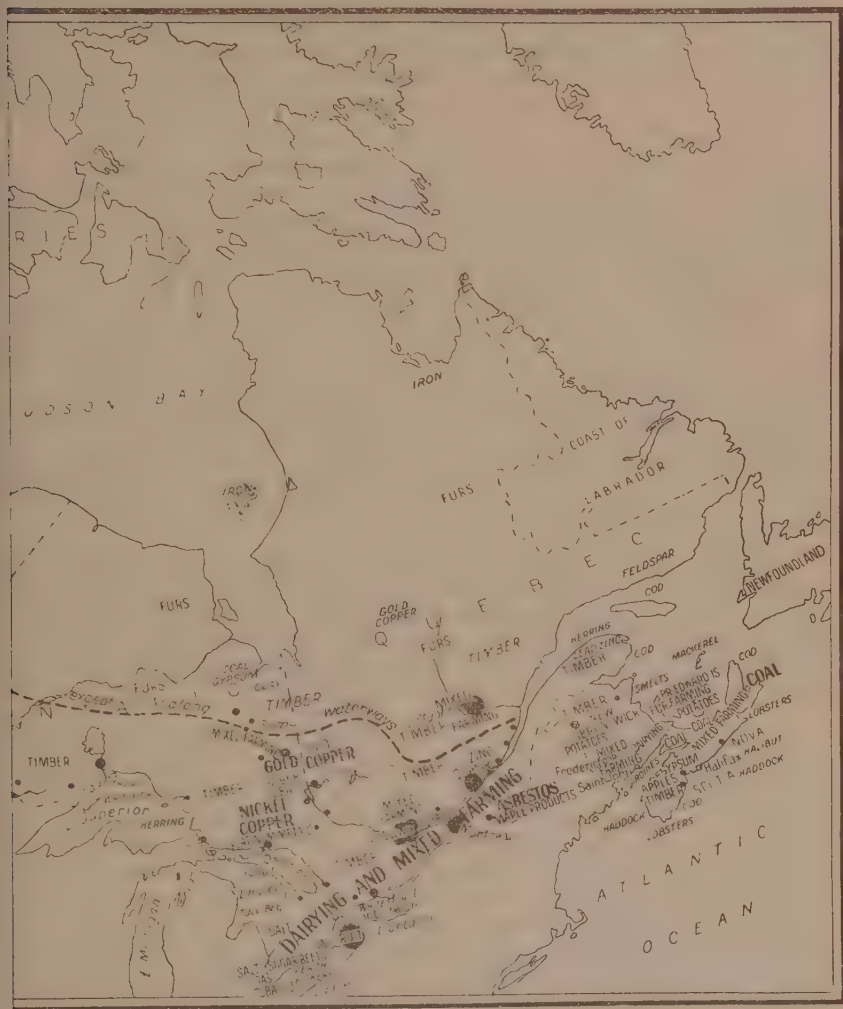
| Province or<br>Region.                    | Productive.             |                  |                         |                  |                         |                  |                         |                  | Non-<br>productive. | Total<br>Forested. |
|-------------------------------------------|-------------------------|------------------|-------------------------|------------------|-------------------------|------------------|-------------------------|------------------|---------------------|--------------------|
|                                           | Totals.                 |                  | Softwood<br>Type.       |                  | Mixed<br>Type.          |                  | Hardwood<br>Type.       |                  |                     |                    |
|                                           | Mer-<br>chant-<br>able. | Young<br>Growth. | Mer-<br>chant-<br>able. | Young<br>Growth. | Mer-<br>chant-<br>able. | Young<br>Growth. | Mer-<br>chant-<br>able. | Young<br>Growth. |                     |                    |
|                                           | sq.<br>miles.           | sq.<br>miles.    | sq.<br>miles.           | sq.<br>miles.    | sq.<br>miles.           | sq.<br>miles.    | sq.<br>miles.           | sq.<br>miles.    | sq.<br>miles.       | sq.<br>miles.      |
| P. E. Island.....                         | 485                     | 240              | 485                     | 240              | -                       | -                | -                       | -                | -                   | 725                |
| Nova Scotia.....                          | 7,470                   | 4,480            | 5,000                   | 3,000            | 670                     | 480              | 1,800                   | 1,000            | 50                  | 12,000             |
| New Brunswick....                         | 18,340                  | 6,205            | 7,880                   | 1,365            | 9,150                   | 4,610            | 1,310                   | 230              | 150                 | 24,695             |
| Quebec.....                               | 213,500                 | 90,000           | 164,400                 | 54,000           | 42,700                  | 23,400           | 6,400                   | 12,600           | 70,000              | 373,500            |
| Ontario.....                              | 52,050                  | 75,500           | 26,300                  | 15,500           | 22,750                  | 50,000           | 3,000                   | 10,000           | 60,000              | 187,550            |
| <b>Totals, Eastern<br/>Provinces.....</b> | <b>291,845</b>          | <b>176,425</b>   | <b>204,065</b>          | <b>74,105</b>    | <b>75,270</b>           | <b>78,490</b>    | <b>12,510</b>           | <b>23,830</b>    | <b>130,200</b>      | <b>598,470</b>     |
| Manitoba.....                             | 4,615                   | 25,885           | 1,835                   | 9,115            | 1,100                   | 5,120            | 1,680                   | 11,650           | 62,500              | 93,000             |
| Saskatchewan.....                         | 7,305                   | 34,855           | 1,745                   | 7,155            | 2,045                   | 7,350            | 3,515                   | 20,350           | 40,000              | 82,160             |
| Alberta.....                              | 20,680                  | 72,390           | 7,695                   | 24,075           | 9,365                   | 31,430           | 3,620                   | 16,885           | 33,700              | 126,770            |
| <b>Totals, Prairie<br/>Provinces.....</b> | <b>32,600</b>           | <b>133,130</b>   | <b>11,275</b>           | <b>40,345</b>    | <b>12,510</b>           | <b>43,900</b>    | <b>8,815</b>            | <b>48,885</b>    | <b>136,200</b>      | <b>361,930</b>     |
| British Columbia..                        | 53,500                  | 94,170           | 53,500                  | 94,000           | -                       | 170              | -                       | -                | 44,935              | 192,605            |
| <b>Totals, All<br/>Provinces.....</b>     | <b>377,945</b>          | <b>403,725</b>   | <b>268,840</b>          | <b>208,450</b>   | <b>87,780</b>           | <b>122,560</b>   | <b>21,325</b>           | <b>72,715</b>    | <b>311,335</b>      | <b>1,093,005</b>   |
| Yukon and N.W.<br>Territories.....        | 1,000                   | 9,000            | 500                     | 4,000            | 250                     | 3,000            | 250                     | 2,000            | 50,000              | 60,000             |
| <b>Totals, Canada..</b>                   | <b>378,945</b>          | <b>412,725</b>   | <b>269,340</b>          | <b>212,450</b>   | <b>88,030</b>           | <b>125,560</b>   | <b>21,575</b>           | <b>74,715</b>    | <b>361,335</b>      | <b>1,153,005</b>   |

Forest products have always formed a large part of the raw material used in all kinds of industrial activity. At the present time products of forest origin form a quarter of our total exports, being exceeded only by the products of the farm.



Because of our climate, coniferous trees form over 80 p.c. of our forest resources and over 95 p.c. of our forest products as at present exploited. Because of their universal use in industry, the softwoods are in greatest demand, not only in Canada but in the markets of the world. Canada enjoys the distinction of holding the Empire's reserve of softwood timber, being rivalled in her coniferous forests only by Asiatic Russia and the United States. The Canadian species of both hardwoods and softwoods yield lumber and timber of dimensions and quality that are equal or superior to those produced by forests elsewhere.

Statistics of forest production (operations in the woods) in 1932 place its total value at \$92,106,252, with a corresponding equivalent in standing timber of



1,882,228,308 cubic feet. The most important items are logs for sawing, valued at \$18,029,759, and pulpwood for use and export, valued at \$36,750,910. The total value of sawmill products in 1932 was \$38,506,647 and that of pulp and paper-mill products \$135,648,729.

**Furs.**—Although the rapid advance of settlement has greatly restricted the reservoir of fur-bearing animal life cradled in the vast expanses of northern Canada, yet Canada, after three and a half centuries of exploitation, still holds a foremost place in the ranks of the world's fur-producing countries. Raw furs are at present the only economic return from hundreds of thousands of square miles of the area of the Dominion and are an important product in all the provinces and territories.



The large uninhabited areas of northern Quebec, Ontario and Western Canada furnish subsistence for many of the most highly prized fur-bearing animals, among the most important of which are various varieties of fox, muskrat, mink, beaver and others. The animals are usually caught in traps during the winter months, when the country is more accessible than during the summer and the pelts are in the best condition.

The successful breeding of the fox on fur farms came with the period of rising prices after 1890, and has since developed into an important industry. Prince Edward Island was formerly the centre of the industry, but farms are now found in all provinces of the Dominion. On Dec. 31, 1932, 5,221 fox farms were in operation with a total of 99,109 foxes, principally of the "silver" variety.

Although the fox has proved the most suited to domestication, other kinds of fur-bearing wild animals are being raised in captivity—mink, raccoon, skunk, coyote, marten and fisher. The mink, in particular, is easily domesticated, and thrives in captivity if care is exercised in the selection of environment and proper attention given to its requirements in the matter of diet. In 1932 the number of farms engaged in the raising of fur-bearing animals other than foxes was 1,075. Mink farms are the most numerous of the miscellaneous class, raccoon farms coming second and muskrat third. Over 395 of the fox farms also raise miscellaneous fur-bearing animals in addition to the foxes.

The total value of the raw fur production of Canada for the season 1932-33 was \$10,305,154. This total comprises the value of pelts of fur-bearing animals taken by trappers and of those raised on fur farms. Pelts sold from fur farms in the calendar year 1932 were valued at \$3,046,627, and animals sold at \$243,193—thus reversing the position of earlier years, when the sales of live animals rather than of pelts, provided the principal source of revenue to the fur farmers.

**Fisheries.**—The first of Canada's resources to be exploited by Europeans was the fishing banks of the Atlantic coast. It is believed that, for many years before the actual discovery and settlement of North America, the cod banks southeast of Newfoundland and east of Nova Scotia had attracted French fishermen by their abundance of fish. These fishing grounds alone extend along a coast line of more than 5,000 miles, comprising an area of not less than 200,000 square miles, and are in the course of the cold Arctic current, a fact which tends greatly to improve the quality of the fish. The most important fishes of the off-shore fisheries are the cod, halibut, haddock, herring and mackerel, while the inshore and inland fisheries number the lobster, oyster, salmon, gaspereau, smelt, trout and maskinonge among their catches. Other fishing grounds include the inshore expanses of the St. Lawrence river; the Great Lakes, where whitefish and herring form perhaps the most valued catches, and innumerable other inland water areas abounding with trout, pike, bass and other game fish; and the Pacific coast. The fisheries of British Columbia, with its coast line of 7,000 miles, have in recent years shown a rapid development, and the products of the estuarine salmon fisheries of the Fraser, Skeena and other rivers now make up two-fifths of the value of fish products of the Dominion, while in addition large catches of halibut and herring are made off the western coast. The total value of the fisheries in the calendar year 1933 was \$27,553,053.

The above statistics give a general survey of the commercial aspects of the fisheries but do not indicate the advantages which Canada has to offer to those who fish for sport. This too has its economic features in a country of such famous

game fish as the salmon of the Restigouche and other rivers of the Maritime Provinces, the black bass of the Quebec and Ontario highlands, the red trout of the Nipigon and the salmon and rainbow trout of British Columbia. A considerable public revenue is derived from the leasing of waters in sparsely settled districts to clubs and individuals for sporting purposes.

**Minerals.**—The mineral deposits of Canada are among the Dominion's greatest assets and their economic importance as a factor in the well-being of the nation is demonstrated by the expansion of the mining industry during 1933. The total value of the mineral production of Canada in 1933 was \$221,495,253, an increase of 21.2 p.c. over 1932. Exports of the non-ferrous metals (excluding bullion) and their products amounted to \$69,340,625 in 1933 compared with \$48,130,177 in 1932. This increase, following the greatest industrial depression ever experienced, not only reflects the stability of the industry but suggests also a world-wide recuperation in the mineral-using industries.

Canadian mineral deposits of commercial value are numerous and varied and the exceptionally large area of Precambrian rocks in Canada comprises a favourable field for mining development and exploration. The history of Canadian mining since the reported discovery of iron in Nova Scotia in 1604 by one of Champlain's companions, is replete with romance.

For many years the output of coal from the large reserves in Nova Scotia, the Prairie Provinces and British Columbia held a leading position in Canadian mineral production. The recent pronounced increase in the price of gold, together with the expansion of activities in the older mining camps and the development of new gold-bearing deposits, have resulted, since 1931, in an almost continuous increase in the value of the output of this precious metal, an increase culminating in a production valued in 1933 at \$84,350,237 (Canadian funds), constituting the largest item in Canadian mineral production.

From the mines of the Sudbury area, Ontario, which constitute the world's largest reserves of nickel ore, were produced 83,264,658 pounds of nickel in 1933, a gain of 174.5 p.c. over 1932; this distinct increase followed continuous annual declines in Canadian nickel production since 1929. There was also an improvement in lead and zinc production, the output of the former metal showing a 4.1 p.c. increase over 1932, while zinc production was 15.6 p.c. higher. Silver production at 15,187,950 fine ounces represents a recession from 1932, and declines were also recorded in cobalt and arsenic. Copper production in 1933 was up 21.1 p.c. over 1932 and was the largest recorded since the high record quantity in 1930. It is interesting to note that radium and uranium salts were produced commercially in Canada for the first time in 1933, as these elements were extracted from pitchblende-silver ores mined at Great Bear Lake, N.W.T.

In the fuel group increases in quantity over 1932 were registered for coal and petroleum; natural gas, however, was less. Other non-metallics to suffer declines included gypsum and quartz (silica). Shipments of asbestos in 1933 totalled 158,367 tons, an increase of 28.8 p.c. over 1932; the value showed a gain of 71.4 p.c. Production of asbestos, as during recent years, came entirely from Quebec. Increases in quantity in 1933 were also reported for diatomite, feldspar, salt, magnesite, mica, sodium carbonate, sodium sulphate, sulphur and talc.

The value of structural materials, including clay products, cement, lime, sand and gravel and stone, totalled \$16,696,687 compared with \$22,398,283 in 1932, a falling-off that emphasizes the "lag" in recovery in building and general construction.

**Water Powers.**—Canada's fresh water area of 228,070 square miles, distributed as it is throughout all parts of the country, provides a large amount of potential electric energy. It is estimated that 20,347,400 h.p. are available at a minimum yearly flow, 33,617,200 at ordinary six-months flow and that a turbine installation of 43,700,000 h.p. is possible. The installation at Jan. 1st, 1935, was 7,547,035 h.p., which represents only about 17.27 p.c. of the possible installation. Perhaps the greatest use to which these resources have yet been put has been in the pulp and paper industry, and to a lesser degree in the mining, the electro-chemical, the electro-metallurgical and the flour-milling industries. The water power utilized in the pulp and paper industry alone amounted on Jan. 1, 1935 to 1,636,000 h.p. not including large amounts of secondary power purchased for use in electric boilers. Over 94 p.c. of the power available is in Quebec, Ontario, Manitoba and British Columbia; Quebec, with 8,459,000 h.p. available at ordinary minimum flow, has the largest resources in the Dominion.

**Game and Scenery.**—Canada's resources as a country for the sportsman and tourist are both unique and varied. Owing to the growth of tourist travel and its demands, great areas of uninhabited land have become accessible, and hitherto almost unknown parts may now be reached and traversed with ease. The valleys of Nova Scotia and New Brunswick, the broken lake country of northern Ontario and Quebec, northern Manitoba and Saskatchewan, as well as the mountain districts of British Columbia, offer to the tourist, the hunter and the fisherman new, scenic effects and innumerable game preserves, and have won for the Dominion a reputation as a paradise for sportsmen and campers. And not only is this possible for those who travel by land; the series of lakes and rivers which form a network over the eastern part of the country particularly, has made water travel in smaller craft both feasible and attractive. Further, facilities for winter sports, the unusual attractions of winter scenery and the bracing though rigorous winter climate, have done much to add to the reputations of resorts formerly noted for their advantages in the summer season. In both Dominion and provincial parks, the hunting of game is forbidden, and the wild-life resources preserved. Elsewhere, however, there is available for the hunter and angler, at proper seasons, a wealth of game species. The deer and moose of Eastern Canada, the bear and mountain sheep of the Rockies, game animals, birds and fishes in unusual variety, have given the Dominion exceptional advantages for this means of recreation.

**National Parks of Canada.** The Dominion Government maintains, as the medium through which some of the most outstanding natural beauties of the country may be preserved and popularized, the National Parks Branch of the Department of the Interior, which administers the scenic and recreational parks set aside for this purpose. Under the supervision of this same body are the national wild animal preserves large fenced areas for the protection and propagation of species in danger of extinction, the national historic parks, and the historic sites of national interest which have been acquired throughout the country. In the national parks, all wild life is given rigid protection, and primal natural conditions are maintained as far as possible. Access to many outstanding points of interest is provided by fine motor roads or well constructed trails. Several of the provinces, including Alberta, British Columbia, Ontario, Quebec, and Saskatchewan, also maintain provincial parks for similar purposes; among these are the Algonquin park (2,740 square miles) in Ontario and the Laurentides park (3,565 square miles) in Quebec.

A list of the Dominion national parks and reserves is given in Table 9.



### 9.—Details Regarding Locations, Dates Established, Areas and Characteristics of the National Parks of Canada and Dominion Reserves, 1935.<sup>1</sup>

(Twenty in number with a total area of 29,368.1 square miles.)

| Park.                                                             | Location.                                                        | Date<br>Estab-<br>lished. | Area.             | Characteristics.                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------|------------------------------------------------------------------|---------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                   |                                                                  |                           | sq. miles         |                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Scenic Parks.</b>                                              |                                                                  |                           |                   |                                                                                                                                                                                                                                                                                                                                                                                               |
| Banff.....                                                        | Western Alberta, on east slope of Rockies.                       | 1885                      | 2,585.00          | Mountain playground containing two famous resorts, Banff and Lake Louise. Massive ranges, upper slopes bare and worn, or glacier crowned; lower slopes covered with luxuriant forests and flowered alplands; glacier-fed lakes. Wild deer, goat, sheep, elk, etc. Recreations—alpine climbing, riding, swimming, golf, tennis, motoring, skiing, tobogganing, snow-shoeing, skating, curling. |
| Yoho.....                                                         | Eastern British Columbia, on west slope of Rockies.              | 1886                      | 507.00            | Rugged scenery on west slope of Rockies; Kicking Horse valley; lofty peaks, large number with permanent ice-caps or glaciers; famous Yoho valley with numerous waterfalls, one over 1,200 feet in height. Natural bridge, Emerald lake, lakes O'Hara and McArthur.                                                                                                                            |
| Glacier.....                                                      | Southeastern British Columbia on summit of the Selkirk range.    | 1886                      | 521.00            | Massive formation of the old Selkirk range; luxuriant forests, alpine flower gardens. Centre for alpine climbers. Illecillewaet and Asulkan glaciers and valleys; Nakimu caves. Marion lake, Rogers and Baloo passes.                                                                                                                                                                         |
| Mount Revelstoke....                                              | Southeastern British Columbia on the summit of Mount Revelstoke. | 1914                      | 100.00            | Nineteen mile drive up Mt. Revelstoke affording panoramic views of the Columbia and Illecillewaet valleys, Clach-na-Cuddin icefield, lakes Eva and Millar. Game sanctuary and winter sports resort.                                                                                                                                                                                           |
| Kootenay.....                                                     | Southeastern British Columbia along Banff Windermere highway.    | 1920                      | 587.00            | Park extends five miles on each side of Vermilion-Sinclair section of Banff-Windermere highway. Deep canyons, Iron Gates, Briscoe range, Sinclair canyon, famed Radium Hot Springs. Bear, deer, caribou, and Rocky Mountain sheep.                                                                                                                                                            |
| Jasper.....                                                       | Western Alberta, on east slope of Rockies.                       | 1907                      | 4,200.00          | Immense mountain wilderness, rich in historical associations. Numbers of unclimbed peaks; glaciers, snowfields, canyons, lakes of wonderful colouring; Athabaska valley, Maligne lake, Mount Edith Cavell; Miette Hot Springs; big game sanctuary. One of the finest golf courses on the continent.                                                                                           |
| Waterton Lakes.....                                               | Southern Alberta, adjoining Glacier park in Montana, U.S.A.      | 1895                      | 220.00            | Canadian section, Waterton-Glacier International Peace Park. Mountains noted for beauty of colouring; lovely lakes, picturesque trails; waterfalls, snow peaks, trout fishing, camping, golf.                                                                                                                                                                                                 |
| St. Lawrence Islands.                                             | In St. Lawrence river between Morrisburg and Kingston, Ontario.  | 1904                      | 185.60<br>(acres) | Thirteen islands among the "Thousand Islands" in the St. Lawrence river. Recreational area, camping, fishing.                                                                                                                                                                                                                                                                                 |
| Point Pelee.....                                                  | Southern Ontario on lake Erie.                                   | 1918                      | 6.04              | Most southerly mainland point in Canada, 40° 54' N. Resting place of many migratory birds; summer resort and bird reserve; unique flora. Recreational area.                                                                                                                                                                                                                                   |
| Georgian Bay Islands<br>(including Flower-<br>pot Island Reserve) | In Georgian Bay near Midland, Ontario.                           | 1929                      | 5.37              | Thirty islands in Georgian bay, Beausoleil, largest of the group is a popular camping resort. Fine bathing beaches, beautiful groves of trees, varied bird and plant life. Flowerpot island, at head of Bruce peninsula, has interesting limestone formations and numerous caves.                                                                                                             |

<sup>1</sup>This table is reproduced from the Annual Report of the Commissioner, National Parks Branch, Department of the Interior.

**9.—Details Regarding Locations, Dates Established, Areas and Characteristics of the National Parks of Canada and Dominion Reserves, 1935—concluded.**

| Park.                                                 | Location.                                                                                                                                             | Date<br>Estab-<br>lished. | Area.               | Characteristics.                                                                                                                                                                                                                                            |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Scenic Parks.—Con.</b>                             |                                                                                                                                                       |                           | sq. miles           |                                                                                                                                                                                                                                                             |
| Riding Mountain.....                                  | Southwestern Mani-<br>toba, west of lake<br>Winnipeg.                                                                                                 | 1929                      | 1,148.04            | Rolling woodland country in western Manitoba dotted with several beautiful lakes. Natural home of big game including one of the largest herds of wild elk in Canada. Fine bathing and camping, summer resort; Government golf course.                       |
| Prince Albert.....                                    | Central Saskatche-<br>wan, north of<br>Prince Albert.                                                                                                 | 1927                      | 1,869.00            | Forest country of northwestern Canada, birch, spruce, jack-pine, poplar; lakes and streams; moose, deer, bear, beaver and interesting bird life. Excellent fishing, northern pike, pickerel and lake trout; fine white sand beaches, ideal camping grounds. |
| National Parks Tar<br>Sands Reservation. <sup>1</sup> | Alberta.....                                                                                                                                          | 1926                      | 2,068.20<br>(acres) | Four areas comprising in all 2,068 acres in the Fort McMurray District, Alberta, has been reserved for the National Parks Branch to provide a supply of tar sands for road construction purposes in the National Parks.                                     |
| <b>Animal Parks<br/>and Reserves.</b>                 |                                                                                                                                                       |                           |                     |                                                                                                                                                                                                                                                             |
| Buffalo.....                                          | Eastern Alberta,<br>near Wainwright..                                                                                                                 | 1908                      | 197.50              | Fenced enclosure; home of the Dominion government buffalo herd. Over 5,000 buffalo, also moose, deer, elk, yak and hybrids.                                                                                                                                 |
| Elk Island.....                                       | Central Alberta,<br>near Lamont.                                                                                                                      | 1911                      | 51.00               | Fenced enclosure, containing over 1,600 buffalo, also moose, elk, and deer.                                                                                                                                                                                 |
| Nemiskam.....                                         | Southern Alberta,<br>near Foremost.                                                                                                                   | 1922                      | 8.50                | Fenced antelope reserve, containing more than 300 head of this interesting animal, a species indigenous to the region.                                                                                                                                      |
| Wawaskey.....                                         | Southeastern<br>Alberta.                                                                                                                              | 1922                      | 54.00               | Antelope reserve, as yet undeveloped.                                                                                                                                                                                                                       |
| Wood Buffalo <sup>2</sup> .....                       | Partly in Alberta<br>(13,675 sq. miles)<br>and partly in<br>Northwest Terri-<br>tories (3,625 sq.<br>miles) west of<br>Athabaska and<br>Slave rivers. | 1922                      | 17,300.00           | Forests interspersed with rivers and open plains. Dotted with innumerable lakes and streams. The home of the wood buffalo, moose, deer, cariboo, bear, beaver—waterfowl abundant. Area as yet undeveloped.                                                  |
| <b>Historic Parks.</b>                                |                                                                                                                                                       |                           |                     |                                                                                                                                                                                                                                                             |
| Fort Anne.....                                        | Nova Scotia.....<br>(Annapolis Royal)                                                                                                                 | 1917                      | 31.00<br>(acres)    | National Historic Park—Site of early Acadian settlement of Port Royal; museum containing interesting relics of early days.                                                                                                                                  |
| Fort Beauséjour.....                                  | New Brunswick,<br>near Sackville.                                                                                                                     | 1926                      | 59.00<br>(acres)    | National Historic Park—Site of old French fort erected middle of 17th century. Renamed Fort Cumberland in 1755 by British; original name was later restored.                                                                                                |

<sup>1</sup> Reserved by Order in Council and became a Dominion reserve by agreement with the province of Alberta in 1931. <sup>2</sup> Administered by the Lands, Northwest Territories and Yukon Branch of the Department of the Interior.

## PART VII.—CLIMATE AND METEOROLOGY.

### Section 1.—The Climate of Canada.

An article on this subject by Sir Frederic Stupart, Director of the Dominion Meteorological Service, Toronto, appeared in the 1929 edition of the Year Book at pp. 42-51.

### Section 2.—The Factors which Control Canadian Weather.

Under the above heading, Sir Frederick Stupart, Director of the Dominion Meteorological Service, Toronto, contributed an article which appeared at pp. 26-31 of the 1924 edition of the Year Book, also at pp. 36-40 of the 1925 edition.

### Section 3.—The Distribution of Precipitation in Canada.

An article on "The Distribution of Precipitation in Canada", contributed by A. J. Connor, Climatologist, Dominion Meteorological Office, Toronto, appeared at pp. 42-46 of the 1926 edition of the Year Book.

### Section 4.—The Temperature and Precipitation of Northern Canada.

An article on the climate of northern Canada, accompanied by meteorological tables showing the normal temperature and precipitation at selected northern stations, was contributed by A. J. Connor, of the Meteorological Service of the Department of Marine, Toronto, to the 1930 edition of the Year Book, where it will be found at pp. 41-56.

### Section 5.—The Meteorological Service of Canada.

Under the above heading Sir Frederic Stupart contributed a short article descriptive of the growth and present activities of the Meteorological Service, to the 1922-23 edition of the Year Book (pp. 43-47); to it the interested reader is referred.

### Section 6.—Meteorological Tables.

Tables showing the normal temperature and precipitation at selected Canadian stations in each of the provinces, together with the recorded extremes, also the averages of sunshine, wind and weather at such stations, will be found at pp. 51-63 inclusive of the 1927-28 edition of the Year Book. The 1931 edition of the Year Book contains at pp. 48-76 additional and more comprehensive tables, contributed by A. J. Connor, of monthly average temperatures and precipitation throughout Canada, as well as of normal snowfall and duration of bright sunshine.

### Section 7.—Droughts in Western Canada.

An article on the above subject by A. J. Connor, of the Meteorological Service of the Department of Marine, Ottawa, accompanied by diagrams and tables showing the precipitation and sun-spot incidence in the Prairie Provinces, appeared at pp. 47-59 of the 1933 edition of the Year Book.



## Section 8.—Standard Time and Time Zones in Canada.\*

In former times, when transportation was slow and people for the most part lived within their own communities, it was natural enough that each community should have its own local time based on sun time. The difference in sun time as between communities is, of course, determined by the difference in their longitude. Inasmuch as the sun appears to travel the 360 degrees around the world in 24 hours or 1,440 minutes, a community which is precisely one degree of longitude west of another community in the same latitude naturally has the sun rise and set four minutes later than it rises and sets in the community which is one degree farther east. Local time, in so far as it was accurately kept, tended therefore to conform to "sun time" and noon came when the sun reached its highest point.

The advent of more rapid transportation, however, made these local times extremely inconvenient for travellers. In particular, railway time tables were found almost impossible to work out on the basis of the local times of each community. Consequently in Great Britain, where the differences of longitude are comparatively small, the problem was solved in 1880 by placing the whole country on the time of Greenwich observatory, while Irish time was standardized at twenty-five minutes behind English time, being the time of Dublin. The American continent, however, extends over such an enormous distance from east to west that it was impracticable to have a single standard of time. Accordingly, in the United States the railways for their own purposes divided the country into four time regions, which were called Eastern, Central, Mountain and Pacific, the time used in these zones being five, six, seven and eight hours, respectively, behind Greenwich time. The change from one time to another was made at divisional points on the several railways and this time, known as railway time, was adopted by most towns in place of their own local time.

From 1878 on, Sir Sandford Fleming had been advocating the general use of what are called standard time zones and this suggestion was adopted at a world conference held at Washington in 1884. Sir Sandford Fleming proposed that the number of times in the world should be reduced to twenty-four, each time zone to extend over one twenty-fourth of the surface of the earth and to include all the territory between two meridians, fifteen degrees of longitude apart, the standard for all times being Greenwich time, and all other time zones being a definite number of hours either in advance of or behind Greenwich. These proposals have been very generally accepted. Mid-European and East European time are to-day respectively one hour and two hours in advance of Greenwich, while on this continent the Atlantic, Eastern, Central, Mountain, Pacific, Yukon and Alaska time zones have times, respectively, four, five, six, seven, eight, nine and ten hours behind Greenwich. The differences are usually expressed in intervals of so many hours' difference from Greenwich. However, some countries and localities of smaller area have times which are not an exact hour's difference from Greenwich, Newfoundland and Labrador, for example, having a time three hours and thirty-one minutes behind Greenwich. This difference of three hours and thirty-one minutes would correspond to west longitude  $52^{\circ} 45'$ , which is nearly the longitude of St. Johns, Newfoundland.

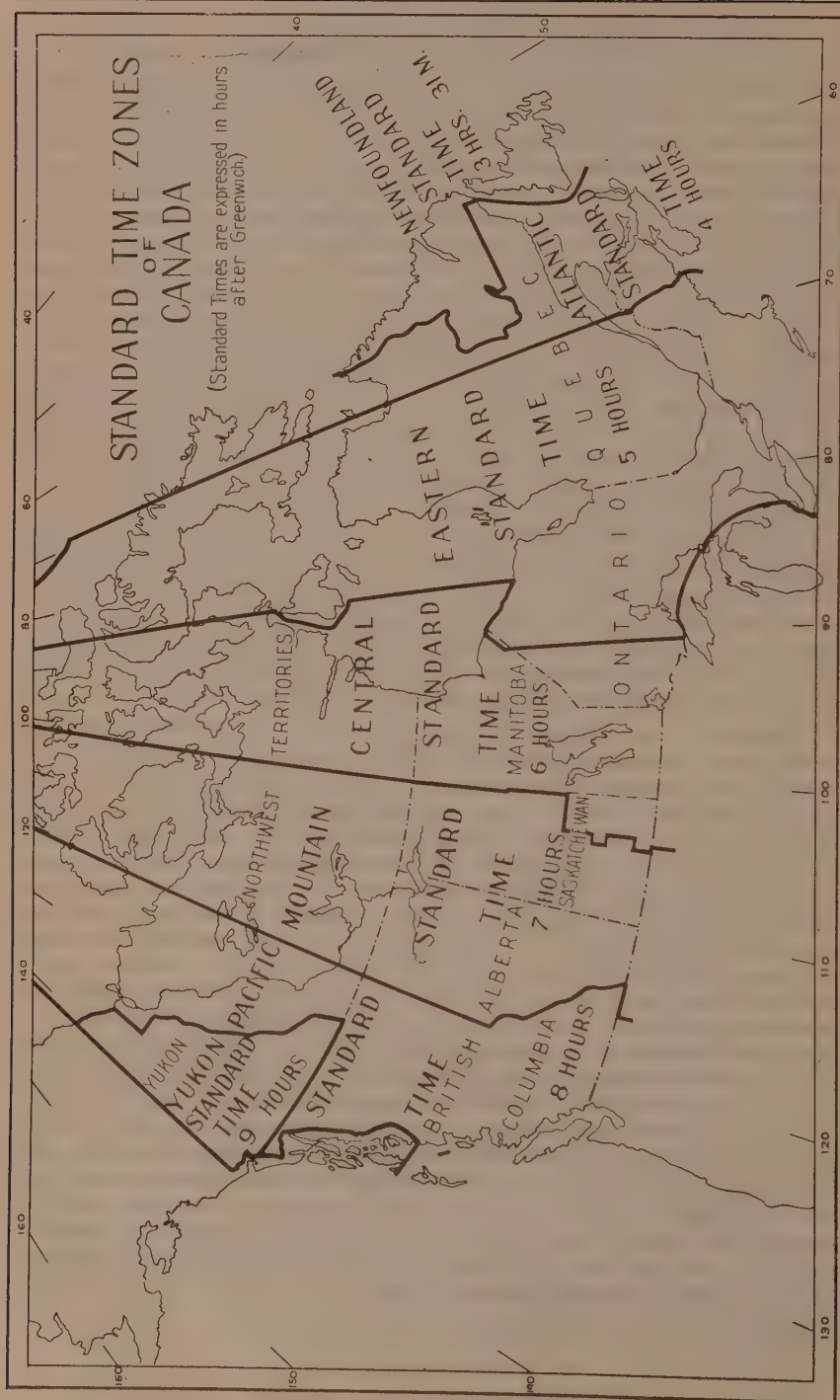
In Canada, Atlantic standard time, which is the local time at the 60th meridian running near Sydney, Nova Scotia, and is four hours behind Greenwich, is used in the Maritime Provinces and those parts of Quebec and the Northwest Territories

\*Based on a paper "Standard Time and Time Zones in Canada", by C. C. Smith, Dominion Observatory, Ottawa.

east of the 68th meridian of west longitude. Eastern standard time, which is the local time at the 75th meridian running near Cornwall, Ontario, and is thus five hours behind Greenwich, is used in Quebec west of the 68th meridian and in Ontario east of the 90th meridian and in the Northwest Territories between the 68th and 85th meridians. Central standard time, which is the local time at the 90th meridian, is six hours behind Greenwich and is used in Ontario west of the 90th meridian, in Manitoba, in the Northwest between the 85th and the 102nd meridians and in the southeasterly part of Saskatchewan. Mountain time, which is the local time at the 105th meridian running near Regina, is seven hours behind Greenwich and is used throughout Saskatchewan except in the southeasterly part, throughout Alberta and in that part of the Northwest Territories between the 102nd and 120th meridians. Pacific standard time, which is the local time of the 120th meridian running near Kamloops, British Columbia, is eight hours behind Greenwich and is used throughout British Columbia and in that part of the Northwest Territories lying west of the 120th meridian. Yukon standard time, which is the local time at the 135th meridian, running near Whitehorse, Yukon, is nine hours behind Greenwich and is used throughout the Yukon Territory. Thus in the far-flung area of the Dominion there are no fewer than six different standard times roughly corresponding with the 84 degrees of longitude between the Labrador boundary and the Alaskan boundary. The existence of the different time zones is to-day brought home to the average man by the radio; especially in such programs as the Empire Christmas broadcasts.

Some municipalities adopt the time used by the local railways, which in some cases differs from the standard, and there are also villages which adopt such time as seems to best suit their convenience, but, in general, the legal boundaries of the different time zones are actually in use. The boundaries of the standard time zones in Canada and Newfoundland are shown in the map on p. 52.

**Daylight Saving Time.**—For some years before the Great War there had been an active propaganda, particularly in the cities, for the use of an earlier time, usually referred to as "daylight saving time", and one hour ahead of standard time, during the summer months. It was considered that both from the economic and from the health point of view, the people, particularly in industrial towns and cities, would gain by beginning work earlier in the morning and having a longer period of sunlight at their disposal for recreation after the work of the day was over. The opponents of the scheme pointed out that the same results might be achieved if everyone went to work an hour earlier and quit work an hour earlier, but it was replied that this ignored the extent to which man is a creature of habit. In Great Britain the use of daylight saving time during the summer months was legalized in 1916 in order to economize the use of light and power for ammunition-making and other related manufactures, and it has since been maintained there by law. The United States and Canada adopted daylight saving for the entire country in 1918, but the Canadian Act lapsed at the end of that year. Since that date, however, various towns and cities have adopted daylight saving by-laws for varying periods in the summer months. There is, indeed, a good deal of confusion and inconvenience arising out of this situation, since, of two towns a few miles apart, one may adopt daylight saving and the other may not, while in other cases they may both adopt daylight saving but one of them for a shorter term than the other. Generally speaking, in the United States and Canada the agricultural element in the population has been opposed to daylight saving and this has made it impracticable to adopt daylight saving time on a nation-wide basis.





It may be added that the adoption of daylight saving time brings greater benefit to communities situated near the eastern ends of their respective time zones, since in their cases standard time is sometimes slower than sun time, while daylight saving time may be as near to sun time as is standard time. Again, in proportion as places are situated in a more northerly latitude, their days are longer in summer even without daylight saving and this is probably the reason why in the Canadian West, where in the settled areas the summer day is an hour or even two hours longer than in the industrial east, daylight saving is not in vogue. Generally speaking, in Canada daylight saving exists only in the industrial cities and towns between Quebec city and Windsor, Ontario, though Halifax and Saint John in the Maritimes and Regina in Saskatchewan adopted local daylight saving time in the summer of 1930.

**Legal Authority for the Time Zones.**—All regulations made in Canada concerning standard time, except the Daylight Saving Act of 1918 (which is understood to have lapsed at the end of that year) have been passed by the Provincial Legislatures and the Northwest Territories Council.

The boundaries of the zones are those laid down in the Statutes of the different provinces and the Northwest Territories. They are usually provincial boundaries or meridians. In the more thickly settled portions of the country this leads to some confusion. The Interstate Commerce Commission have charge of the placing of the boundaries of the time zones in the United States and bend the lines around to fit, so far as convenient, the divisional points of the railways and the requirements of the public. Such a national body can deal more effectively with such matters as the time tables of interstate carriers.

The official legislation in Canada in regard to time chiefly affects such matters as the times of coming into effect or expiration of Acts, ordinances, contracts and agreements, times of opening and closing registration offices, law courts, post offices and other public offices, times of open or close seasons for game, times of opening and closing business houses and places of amusement.

## CHAPTER II.—HISTORY AND CHRONOLOGY.

### PART I.—HISTORY.

In the 1922-23 edition of the Canada Year Book, pp. 60-80, will be found an outline of the history of Canada, not reprinted here for lack of space.

A select bibliography of historical works relating to Canada was contributed by the late Adam Shortt, C.M.G., LL.D., F.R.S.C., Chairman of the Historical Documents Publication Board, Ottawa, to the 1925 edition of the Canada Year Book, where it appears on pp. 53-55.

### PART II.—CHRONOLOGY, 1497 to 1934.

1497. June 24, Eastern coast of North America discovered by John Cabot.  
1498. Cabot discovers Hudson strait.  
1501. Gaspar Corte Real visits Newfoundland and Labrador.  
1524. Verrazano explores the coast of Nova Scotia.  
1534. June 21, Landing of Jacques Cartier at Esquimaux bay.  
1535. Cartier's second voyage. He ascends the St. Lawrence to Stadacona (Quebec), (Sept. 14) and Hochelaga (Montreal), (Oct. 2).  
1541. Cartier's third voyage. He plants wheat, cabbages, turnips and lettuces near Cap Rouge river.  
1542-3. De Roberval and his party winter at Cape Rouge, and are rescued by Cartier on his fourth voyage.  
1557. Sept. 1, Death of Cartier at St. Malo, France.  
1592. Straits of Juan de Fuca discovered by de Fuca.  
1603. June 22, Champlain's first landing in Canada, at Quebec.  
1604. De Monts settles colony on island in the St. Croix river.  
1605. Founding of Port Royal (Annapolis, N.S.).  
1608. Champlain's second visit. July 3, Founding of Quebec.  
1609. July, Champlain discovers lake Champlain.  
1610-11. Hudson explores Hudson bay and James bay.  
1611. Brûlé ascends the Ottawa river.  
1612. Oct. 15, Champlain made Lieutenant-General of New France.  
1613. June, Champlain ascends the Ottawa river.  
1615. Champlain explores lakes Nipissing, Huron and Ontario (discovered by Brûlé and Le Caron).  
1616. First schools opened at Tadoussac and on the site of the city of Three Rivers.  
1617. Arrival at Quebec of the first colonist, Louis Hébert and his family.  
1620. Population of Quebec, 60 persons.  
1621. Code of laws issued and register of births, deaths and marriages opened in Quebec. Nova Scotia granted to Sir William Alexander by King James I.  
1622. Lake Superior discovered by Brûlé.  
1623. First British settlement of Nova Scotia.  
1627. New France and Acadia granted to the Company of 100 Associates.  
1628. Port Royal taken by Sir David Kirke.  
1629. April 24, Treaty of Susa between France and England. July 20, Quebec taken by Sir David Kirke.  
1632. Mar. 29, Canada and Acadia restored to France by the Treaty of St. Germain-en-Laye.  
1633. May 23, Champlain made first Governor of New France.  
1634. July 4, Founding of Three Rivers.  
1634-35. Exploration of the Great Lakes by Nicolet.  
1635. Dec. 25, Death of Champlain at Quebec. Founding of the first college at Quebec.  
1638. June 11, First recorded earthquake in Canada.  
1640. Discovery of lake Erie by Chaumonot and Brébeuf.  
1641. Resident population of New France, 240.  
1642. May 17, Founding of Ville-Marie (Montreal) by Maisonneuve.  
1646. Exploration of the Saguenay by Dablon.  
1647. Lake St. John discovered by de Quen.  
1648. Mar. 5, Council of New France created.  
1649. Mar. 16-17, Murder of Fathers Brébeuf and Lalemant by Indians and massacre of the Hurons.  
1654. August, Acadia taken by an expedition from New England.  
1656. Acadia granted by Cromwell to La Tour, Temple and Crowne.  
1659. June 16, François de Laval arrives in Canada as Vicar-Apostolic.  
1660. May 21, Dollard des Ormeaux and sixteen companions killed by Iroquois at the Long Sault, Ottawa river.  
1663. Company of 100 Associates dissolved. Feb. 5, severe earthquake. April, Sovereign Council of New France established. Population of New France, 2,500, of whom 800 were in Quebec. Foundation of the "Grand Séminary" at Quebec, by Laval.  
1664. May, Company of the West Indies founded.  
1665. Mar. 23, Talon appointed Intendant.

1666. Feb.-Mar., First census. Population of New France, 3,215.
1667. July 21, Acadia restored to France by the Treaty of Breda. Sept.-Oct., Second census; white population of New France, 3,918.
1668. Foundation of the "Little Seminary" at Quebec by Laval. Mission at Sault Ste. Marie founded by Marquette.
1670. May 13, Charter of the Hudson's Bay Company granted.
1671. Population of Acadia, 441.
1672. Population of New France, 6,705. April 6, Comte de Frontenac, Governor.
1673. June 13, Cataragui (Kingston) founded.
1674. Oct. 1, Laval becomes first Bishop of Quebec.
1675. Population of New France, 7,832.
1678. Niagara falls visited by Hennepin.
1679. Ship *Le Griffon* built on Niagara river above the falls by La Salle. Third census; population of New France, 9,400; of Acadia, 515.
1681. Fourth census; population of New France, 9,677.
1682. Frontenac recalled.
1683. Population of New France, 10,251.
1685. First issue of card money. Fifth census; population of New France, 12,263, including 1,538 settled Indians.
1686. Population of New France, 12,373; of Acadia, 885.
1687. Mar. 18, La Salle assassinated.
1688. Sixth census; population of New France, 11,562, including 1,259 settled Indians.
1689. June 7, Frontenac re-appointed Governor. Aug. 5, Massacre of whites by Indians at Lachine.
1690. May 21, Sir William Phips captures Port Royal, but is repulsed in an attack on Quebec (Oct. 16-21).
1692. Seventh census; population of New France, 12,431. Oct. 22, Defence of Verchères against Indians by Madeleine de Verchères.
1693. Population of Acadia, 1,009.
1695. Eighth census; population of New France, 13,639, including 853 settled Indians.
1697. Sept. 20, By the treaty of Ryswick, places taken during the war were mutually restored. D'Iberville defeats the Hudson's Bay Co.'s ships on Hudson bay.
1698. Nov. 28, Death of Frontenac. Ninth census; population of New France, 15,355.
1701. La Motte Cadillac builds a fort at Detroit.
1703. June 16, Sovereign Council of Canada becomes Superior Council and membership increased from 7 to 12.
1706. Tenth census; population of New France, 16,417.
1708. Death of Laval.
1709. British invasion of Canada.
1710. Oct. 13, Port Royal taken by Nicholson.
1711. Sept. 1, Part of Sir H. Walker's fleet, proceeding against Quebec, wrecked off the Seven Islands.
1713. April 11, Treaty of Utrecht; Hudson bay, Acadia and Newfoundland ceded to Great Britain. August, Louisbourg founded by the French. Population of New France, 18,119.
1718. Foundation of New Orleans in carrying out French plan to control the Mississippi as well as the St. Lawrence.
1719. Census population of New France, 22,530.
1720. Population of New France, 24,234; of Isle St. Jean (P.E.I.), about 100. April 25, Governor and Council of Nova Scotia appointed.
1721. June 19, Burning of about one-half of Montreal. Census population of New France, 24,951.
1727. Population of New France, 30,613.
1728. Population of Isle St. Jean (P.E.I.), 330.
1731. Population of the north of the peninsula of Acadia, 6,000.
1733. Discovery of lake Winnipeg by La Vérendrye.
1734. Road opened from Quebec to Montreal. Census population of New France, 37,716.
1737. Iron smelted on St. Maurice. French population of the north of the Acadia peninsula, 7,598.
1739. Census population of New France, 42,701.
1743. The younger La Vérendrye discovers the Rocky mountains.
1745. June 17, Taking of Louisbourg by Pepperell and Warren.
1748. Oct. 18, Treaty of Aix-la-Chapelle. Louisbourg restored to France in exchange for Madras.
1749. June 21, Founding of Halifax—British immigrants brought to Nova Scotia by Governor Cornwallis, 2,544 persons. Fort Rouillé (Toronto) built.
1750. St. Paul's church, Halifax, (oldest Anglican church in Canada) built.
1752. Mar. 25, Issue of the *Halifax Gazette* first paper in Canada. British and German population of Nova Scotia, 4,203.
1754. Census population of New France, 55,009.
1755. Establishment at Halifax of first post office in what is now Canada, together with direct mail communication with Great Britain. June 16, Surrender of Fort Beauséjour on the isthmus of Chignecto to the British. Sept. 10, Expulsion of the Acadians from Nova Scotia.
1756. Seven Years' War between Great Britain and France begins.
1758. July 26, Final capture of Louisbourg by the British. Oct. 7, First meeting of the Legislature of Nova Scotia.



1759. July 25, Taking of Fort Niagara by the British. July 26, Beginning of the siege of Quebec. July 31, French victory at Beauport Flats. Sept. 13, Defeat of the French on the Plains of Abraham. Death of Wolfe. Sept. 14, Death of Montcalm. Sept. 18, Surrender of Quebec.
1760. April 28, Victory of the French under Lévis at Ste. Foy. Sept. 8, Surrender of Montreal. Military rule set up in Canada.
1762. British population of Nova Scotia, 8,104. First British settlement in New Brunswick.
1763. Feb. 10, Treaty of Paris, by which Canada and its dependencies are ceded to the British. May, Rising of Indians under Pontiac, who take a number of forts and defeat the British at Bloody Run (July 31). Oct. 7, Civil government proclaimed. Cape Breton and Isle St. Jean annexed to Nova Scotia; Labrador, Anticosti and Magdalen islands to Newfoundland. Nov. 21, General James Murray appointed Governor in Chief. First Canadian post offices established at Montreal, Three Rivers and Quebec.
1764. June 21, First issue of the *Quebec Gazette*. Aug. 13, Civil government established.
1765. Publication of the first book printed in Canada, "Catéchisme du Diocèse de Sens". May 18, Montreal nearly destroyed by fire. Population of Canada, 69,810.
1766. July 24, Peace made with Pontiac at Oswego.
1768. Charlottetown, P.E.I., founded. April 11, Great fire at Montreal. April 12, Sir Guy Carleton (Lord Dorchester) Governor in Chief.
1769. Isle St. Jean (Prince Edward island) separated from Nova Scotia.
- 1770-72. Hearne's journey to the Coppermine and Slave rivers and Great Slave lake.
1773. Suppression of the order of Jesuits in Canada and escheat of their estates.
1774. June 22, The Quebec Act passed.
1775. May 1, The Quebec Act comes into force. Outbreak of the American Revolution. Montgomery and Arnold invade Canada. Nov. 12, Montgomery takes Montreal; Dec. 31, is defeated and killed in an attack on Quebec.
1776. The Americans are defeated and driven from Canada by Carleton.
1777. Sept. 18, General Frederick Haldimand Governor in Chief.
1778. Captain Jas. Cook explores Nootka sound and claims the northwest coast of America for Great Britain. June 3, First issue of the *Montreal Gazette*.
1783. Sept. 3, Treaty of Versailles, recognizing the independence of the United States. Organization of the Northwest Company at Montreal. Kingston, Ont., and Saint John, N.B., founded by the United Empire Loyalists.
1784. Population of Canada, 113,012. Aug. 16, New Brunswick and (Aug. 26) Cape Breton separated from Nova Scotia.
1785. May 18, Incorporation of Parrrtown (Saint John, N.B.).
1786. April 22, Lord Dorchester again Governor in Chief. Oct. 23, Government of New Brunswick moved from Saint John to Fredericton.
1787. C. Inglis appointed Anglican Bishop of Nova Scotia—the first colonial bishopric in the British Empire.
1788. King's College, Windsor, N.S., opened. Sailing packet service restored between Great Britain and Halifax.
1789. Quebec and Halifax Agricultural Societies established.
1790. Spain surrenders her exclusive rights on the Pacific coast. Population of Canada, 161,311. (This census did not include what became, in the next year, Upper Canada.)
1791. The Constitutional Act divides the province of Quebec into Upper and Lower Canada, each with a lieutenant-governor and legislature. The Act goes into force Dec. 26. Sept. 12, Colonel J. G. Simcoe, first Lieutenant-Governor of Upper Canada.
1792. Sept. 17, First Legislature of Upper Canada opened at Newark (Niagara). Dec. 17, First Legislature of Lower Canada opened at Quebec. Vancouver island circumnavigated by Vancouver.
1793. April 18, First issue of the *Upper Canada Gazette*. June 28, Jacob Mountain appointed first Anglican Bishop of Quebec. July 9, Importation of slaves into Upper Canada forbidden. Rocky mountains crossed by (Sir) Alexander Mackenzie, who reaches the Pacific ocean. York (Toronto) founded by Simcoe.
1794. Nov. 19, Jay's Treaty between Great Britain and the United States.
1795. Pacific coast of Canada finally given up by the Spaniards.
1796. Government of Upper Canada moved from Niagara to York (Toronto).
1798. St. John's island (Isle St. Jean, population 4,500) re-named Prince Edward island.
1800. Founding of New Brunswick College, Fredericton (now University of N.B.). The Rocky mountains crossed by David Thompson.
1803. Settlers sent by Lord Selkirk to Prince Edward island.
1806. Nov. 22, Issue of *Le Canadien*—first wholly French newspaper. Population—Upper Canada, 70,718; Lower Canada, 250,000; New Brunswick, 35,000; P.E.I., 9,676.

1807. Simon Fraser explores the Fraser river. Estimated population of Nova Scotia, 65,000.
1809. Nov. 4, First Canadian steamer runs from Montreal to Quebec.
1811. Lord Selkirk's Red River settlement founded on land granted by Hudson's Bay Company.
1812. June 18, Declaration of war by the United States. July 12, Americans under Hull cross the Detroit river. Aug. 16, Detroit surrendered by Hull to Brock. Oct. 13, Defeat of the Americans at Queenston Heights and death of Gen. Brock.
1813. Jan. 22, British victory at Frenchtown. April 27, York (Toronto) taken and burned by the Americans. June 5, British victory at Stoney Creek. June 24, British, warned by Laura Secord, capture an American force at Beaver Dams. Sept. 10, Commodore Perry destroys the British flotilla on lake Erie. Oct. 5, Americans under Harrison defeat the British at Moraviantown. Tecumseh killed. Oct. 26, Victory of French-Canadian troops under de Salaberry at Chateauguay. Nov. 11, Defeat of the Americans at Crysler's Farm. British storm Fort Niagara and burn Buffalo.
1814. Mar. 30, Americans repulsed at La Colle. May 6, Capture of Oswego by the British. July 5, American victory at Chippawa. July 25, British victory at Lundy's Lane. July, British from Nova Scotia invade and occupy northern Maine. Sept. 11, British defeat at Plattsburg on lake Champlain. Dec. 24, Treaty of Ghent ends the war. Population—Upper Canada, 95,000; Lower Canada, 335,000.
1815. July 3, Treaty of London regulates trade with the United States. The Red River settlement destroyed by the Northwest Company but restored by Governor Semple.
1816. June 19, Governor Semple killed. The Red River settlement again destroyed.
1817. July 18, First treaty with the Northwest Indians. Lord Selkirk restores the Red River settlement. Opening of the Bank of Montreal; first note issued Oct. 1. Population of Nova Scotia, 81,351. Rush-Bagot Convention with the United States, limiting naval armament on the Great Lakes, is signed.
1818. Oct. 20, Convention at London regulating North American fisheries. Dalhousie College, Halifax, founded. Bank of Quebec founded.
- 1819-22. Franklin's overland Arctic expedition.
1820. Oct. 16, Cape Breton re-annexed to Nova Scotia.
1821. Mar. 26, The Northwest Company absorbed by the Hudson's Bay Company. Charter given to McGill College.
1822. Population of Lower Canada, 427,465.
1824. Population of Upper Canada, 150,066; of New Brunswick, 74,176.
1825. Oct. 6, Great fire in the Miramichi district, N.B. Opening of the Lachine canal. Population of Lower Canada, 479,288.
1826. Founding of Bytown (Ottawa).
1827. Sept. 29, Convention of London relating to the territory west of the Rocky mountains. Population of Nova Scotia, (including Cape Breton) 123,630.
1828. The Methodist Church of Upper Canada separated from that of the United States.
1829. Nov. 27, First Welland canal opened. McGill University opened. Upper Canada College founded.
1831. June 1, The North Magnetic Pole discovered by (Sir) James Ross. Population—Upper Canada, 236,702; Lower Canada, 553,131; Assiniboia, 2,390.
1832. Outbreak of cholera in Canada. Incorporation of Quebec and Montreal. Bank of Nova Scotia founded. May 30, Opening of the Rideau canal.
1833. Aug. 18, The steamer *Royal William*, built at Quebec, crosses the Atlantic from Pictou to England.
1834. Feb. 21, The Ninety-Two Resolutions on public grievances passed by the Assembly of Lower Canada. Mar. 6, Incorporation of Toronto. Population of Upper Canada, 321,145; of New Brunswick, 119,457; of Assiniboia, 3,356.
1836. July 21, Opening of the first railway in Canada from Laprairie to St. John's, Que. Victoria University opened at Cobourg (afterwards moved to Toronto).
1837. Report of the Canada Commissioners. Rebellion in Lower Canada (Papineau) and Upper Canada (W. L. Mackenzie). Nov. 23, Gas lighting first used in Montreal.
1838. Feb. 10, Constitution of Lower Canada suspended and Special Council created. Mar. 30, The Earl of Durham, Governor in Chief. April 27, Martial law revoked. June 28, Amnesty to political prisoners proclaimed. Nov. 1, Lord Durham, censured by British Parliament, resigns. Population—Upper Canada, 339,442; Assiniboia, 3,966; Nova Scotia, 202,575.
1839. Feb. 11, Lord Durham's report submitted to Parliament. John Strachan ordained first Anglican Bishop of Toronto.
1840. July 23, Passing of the Act of Union. First ship of the Cunard line arrives at Halifax. July 28, Death of Lord Durham.

1841. Feb. 10, Union of the two provinces as the Province of Canada, with Kingston as capital. Feb. 13, Draper-Ogden administration. April 10, Halifax incorporated. June 13, Meeting of the first United Parliament. Sept. 19, Death of Lord Sydenham. Population of Upper Canada, 455,668; of P.E.I., 47,042.
1842. Mar. 10, Opening of Queen's University, Kingston. Aug. 9, The Ashburton Treaty. Sept. 16, Baldwin-Lafontaine administration.
1843. June 4, Victoria, B.C., founded. Dec. 12, Draper-Viger administration. King's (now University) College, Toronto, opened.
1844. May 10, Capital moved from Kingston to Montreal. Knox College, Toronto, founded. Population of Lower Canada, 697,084.
1845. May 28 and June 28, Great fires at Quebec. Franklin starts on his last Arctic expedition.
1846. May 18, Kingston incorporated. June 15, Oregon Boundary Treaty. June 18, Draper-Papineau administration. First telegraph line, operated by the Toronto, Hamilton, Niagara and St. Catharines Telegraph Co., opened.
1847. May 29, Sherwood-Papineau administration. Nov. 25, Montreal-Lachine Railway opened.
1848. Mar. 11, Lafontaine-Baldwin administration. May 30, Fredericton incorporated. Responsible government granted to Nova Scotia and New Brunswick. St. Lawrence canals opened to navigation.
1849. April 25, Signing of the Rebellion Losses Act; rioting in Montreal and burning of the Parliament Buildings. Nov. 14, Toronto made the capital. Vancouver island granted to the Hudson's Bay Company. Population of Assiniboia, 5,391.
1851. April 6, Transfer of the postal system from the British to the Provincial Government; uniform rate of postage introduced. April 23, Postage stamps issued. Aug. 2, Incorporation of Trinity College, Toronto. Sept. 22, Quebec becomes the capital. Oct. 28, Hincks-Morin administration. Responsible government granted to Prince Edward Island. Population—Upper Canada, 952,004; Lower Canada, 890,261; New Brunswick, 193,800; Nova Scotia, 276,854.
1852. July 8, Great fire at Montreal. Dec. 8, Laval University, Quebec, opened. The Grand Trunk Railway chartered.
1853. Opening of G.T.R. from Montreal to Portland.
1854. June 5, Reciprocity Treaty with the United States. Sept. 11, MacNab-
- Morin Ministry. Seigneurial tenure in Lower Canada abolished. Secularization of the clergy reserves.
1855. Jan. 1, Incorporation of Ottawa. Jan. 27, MacNab-Taché administration. Mar. 9, Opening of the Niagara Railway suspension bridge. April 17, Incorporation of Charlottetown. Oct. 20, Government moved to Toronto.
1856. The Legislative Council of Canada is made elective. First meeting of the Legislature of Vancouver Island. May 24, Taché-J. A. Macdonald administration. Oct. 27, Opening of the Grand Trunk Railway from Montreal to Toronto. Population of Assiniboia, 6,691.
1857. Nov. 26, J. A. Macdonald-Cartier administration. Dec. 31, Ottawa chosen by Queen Victoria as future capital of Canada.
1858. February, Discovery of gold in Fraser River valley. July 1, Introduction of Canadian decimal currency. Aug. 2, Brown-Dorion administration. Aug. 5, Completion of the Atlantic cable; first message sent. Aug. 6, Cartier-J. A. Macdonald administration. Aug. 20, Colony of British Columbia established. Control of Vancouver island surrendered by the Hudson's Bay Company.
1859. January, Canadian silver coinage issued. Sept. 24, Government moved to Quebec.
1860. Aug. 8, The Prince of Wales (King Edward VII) arrives at Quebec. Sept. 1, Laying of the corner stone of the Parliament Buildings at Ottawa by the Prince of Wales. Prince of Wales College, Charlottetown, founded.
1861. Aug. 14, Great flood at Montreal. Sept. 10, Meeting of the first Anglican provincial synod. Population—Upper Canada, 1,396,091; Lower Canada, 1,111,566; New Brunswick, 252,047; Nova Scotia, 330,857; Prince Edward Island, 80,857.
1862. May 24, Sandfield Macdonald-Sicotte administration. Aug. 2, Victoria, B.C., incorporated.
1863. May 16, Sandfield Macdonald-Dorion administration.
1864. Mar. 30, Taché-J. A. Macdonald administration. Conferences on confederation of British North America; Sept. 1, at Charlottetown; Oct. 10-29; at Quebec. Oct. 19, Raid of American Confederates from Canada on St. Albans, Vermont.
1865. Feb. 3, The Canadian Legislature resolves on an address to the Queen praying for union of the provinces of British North America. Aug. 7, Belleau-J. A. Macdonald administration. Oct. 20, Proclamation fixing the seat of government at Ottawa.



1866. Mar. 17, Termination of the Reciprocity Treaty by the United States. May 31, Raid of Fenians from the United States into Canada; they are defeated at Ridgeway (June 2) and retreat across the border (June 3). June 8, First meeting at Ottawa of the Canadian Legislature. Nov. 17, Proclamation of the union of Vancouver Island with British Columbia.
1867. Mar. 29, Royal assent given to the British North America Act. July 1, The Act comes into force; Union of the provinces of Canada, Nova Scotia and New Brunswick as the Dominion of Canada; Upper and Lower Canada made separate provinces as Ontario and Quebec; Viscount Monck first Governor General, Sir John A. Macdonald, Premier. Nov. 6, Meeting of the first Dominion Parliament.
1868. April 7, Murder of D'Arcy McGee at Ottawa. July 31, The Rupert's Land Act authorizes the acquisition by the Dominion of the Northwest Territories.
1869. June 22, Act providing for the government of the Northwest Territories. Nov. 19, Deed of surrender to the Crown of the Hudson's Bay Company's territorial rights in the Northwest. Outbreak of the Red River Rebellion under Riel.
1870. May 12, Act to establish the province of Manitoba. July 15, Northwest Territories transferred to the Dominion and Manitoba admitted into Confederation. Sept. 24, Wolseley's expedition reaches Fort Garry (Winnipeg); end of the rebellion.
1871. April 2, First Dominion Census (populations at this and succeeding enumerations given on p. 99). April 14, Act establishing uniform currency in the Dominion. May 8, Treaty of Washington, dealing with questions outstanding between the United Kingdom and the United States. July 20, British Columbia enters Confederation.
1873. Mar. 5, Opening of the second Dominion Parliament. May 23, Act establishing the Northwest Mounted Police. July 1, Prince Edward Island enters Confederation. Nov. 7, Alexander Mackenzie becomes Prime Minister. Nov. 8, Incorporation of Winnipeg.
1874. Mar. 26, Opening of the third Dominion Parliament. May, Ontario Agricultural College, Guelph, opened.
1875. April 8, The Northwest Territories Act establishes a Lieutenant-Governor and a Northwest Territories Council. April-May, Letting of first contract and commencement of work upon the Canadian Pacific railway as a Government line; Work commenced at Fort William. June 15, Formation of the Presbyterian Church of Canada.
1876. June 1, Opening of the Royal Military College, Kingston. June 5, First sitting of the Supreme Court of Canada. July 3, Opening of the Intercolonial Railway from Quebec to Halifax. Branch of Laval University established at Montreal.
1877. June 20, Great fire at Saint John, N.B. October, First exportation of wheat from Manitoba to the United Kingdom. Founding of the University of Manitoba.
1878. July 1, Canada joins the International Postal Union. Oct. 17, Sir John A. Macdonald becomes Prime Minister.
1879. Feb. 13, Opening of the fourth Dominion Parliament. May 15, Adoption of a protective tariff ("The National Policy").
1880. Royal Canadian Academy of Arts founded; first meeting and exhibition, Mar. 6. May 11, Sir A. T. Galt appointed first Canadian High Commissioner in London. Sept. 1, All British possessions in North America and adjacent islands except Newfoundland and its dependencies, annexed to Canada by Imperial Order in Council of July 31. Oct. 21, Signing of the contract with the present Canadian Pacific Railway Co. for the completion of the Canadian Pacific railway.
1881. April 4, Second Dominion Census. May 2, First sod of the Canadian Pacific railway as a company line turned.
1882. May 8, Provisional districts of Assiniboia, Saskatchewan, Athabaska and Alberta formed. May 25, First meeting of the Royal Society of Canada. Aug. 23, Regina established as seat of government of Northwest Territories.
1883. Feb. 1, Opening of the fifth Dominion Parliament. Sept. 5, Formation of the Methodist Church in Canada; united conference.
1884. May 24, Sir Charles Tupper High Commissioner in London. Aug. 11, Order in Council settling the boundary of Ontario and Manitoba.
1885. Mar. 26, Outbreak of Riel's second rebellion in the Northwest. April 24, Engagement at Fish Creek. May 2, Engagement at Cut Knife. May 12, Taking of Batoche. May 16, Surrender of Riel. Aug. 24, First census of the Northwest Territories. Nov. 16, Execution of Riel.
1886. April 6, Incorporation of Vancouver. June 7, Archbishop Taschereau of Quebec made first Canadian Cardinal. June 13, Vancouver destroyed by fire. June 28, First through train of the Canadian Pacific Railway leaves Montreal for Port Moody. July 31, First quinquennial census of Manitoba.



1887. Interprovincial Conference at Quebec. April 4, First Colonial Conference in London. April 13, Opening of the sixth Dominion Parliament.
1888. Feb. 15, Signing of Fishery Treaty between United Kingdom and United States at Washington. August, Rejection of Fishery Treaty by United States' Senate.
1890. Mar. 31, The Manitoba School Act abolishes separate schools.
1891. April 5, Third Dominion Census. April 29, Opening of the seventh Dominion Parliament. June 6, Death of Sir John A. Macdonald. June 15, Sir John Abbott becomes Prime Minister.
1892. Feb. 29, Washington Treaty, providing for arbitration of the Behring Sea Seal Fisheries question. July 22, Boundary convention between Canada and United States. Nov. 25, Sir John Thompson becomes Prime Minister.
1893. April 4, First sitting of the Behring Sea Arbitration Court. Dec. 18, Archbishop Machray, of Rupert's Land, elected first Anglican Primate of all Canada.
1894. June 28, Second Colonial Conference at Ottawa. Dec. 12, Death of Sir John Thompson at Windsor Castle. Dec. 21, (Sir) Mackenzie Bowell becomes Prime Minister.
1895. Sept. 10, Opening of new Sault Ste. Marie canal. Oct. 2, Proclamation naming the Ungava, Franklin, Mackenzie and Yukon districts of Northwest Territories.
1896. April 24, Sir Donald Smith (Lord Strathcona) High Commissioner in London. April 27, Sir Charles Tupper becomes Prime Minister. July 11, (Sir) Wilfrid Laurier becomes Prime Minister. August, Gold discovered in the Klondyke. Aug. 19, Opening of the eighth Dominion Parliament.
1897. July, Third Colonial Conference in London. Dec. 17, Award of the Behring Sea Arbitration Court.
1898. June 13, The Yukon district established as a separate Territory. Aug. 1, The British Preferential Tariff goes into force. Aug. 23, Meeting at Quebec of the Joint High Commission between Canada and the United States. Dec. 25, British Imperial penny (2 cent) postage introduced.
1899. Oct. 1, Mgr. Diomède Falconio arrived at Quebec as first permanent Apostolic Delegate to Canada. Oct. 11, Beginning of the South African War. Oct. 29, First Canadian contingent leaves Quebec for South Africa.
1900. Feb. 27, Battle of Paardeberg. April 26, Great fire at Ottawa and Hull.
1901. Jan. 22, Death of Queen Victoria and accession of King Edward VII. Feb. 6, Opening of the ninth Dominion Parliament. April 1, Fourth Dominion Census. Sept. 16-Oct. 21, Visit to Canada of the Duke and Duchess of Cornwall and York (King George V and Queen Mary).
1902. May 31, End of South African War; peace signed at Vereeniging. June 30, Meeting of fourth Colonial Conference in London.
1903. Jan. 24, Signing of the Alaskan Boundary Convention. June 19, Incorporation of Regina. Oct. 20, Award of the Alaskan Boundary Commission.
1904. Feb. 1, Dominion Railway Commission established. April 19, Great fire in Toronto. Oct. 8, Incorporation of Edmonton.
1905. Jan. 11, Opening of the tenth Dominion Parliament. Sept. 1, Creation of the provinces of Alberta and Saskatchewan.
1906. University of Alberta founded. Oct. 8, Interprovincial Conference at Ottawa.
1907. April 15-May 14, Fifth Colonial Conference in London. New customs tariff, including introduction of intermediate tariff. Sept. 19, New commercial convention with France signed at Paris. Oct. 17, First message by wireless telegraphy between Canada and the United Kingdom. University of Saskatchewan founded.
1908. Jan. 2, Establishment of Ottawa Branch of Royal Mint. June 21-23, Bicentenary of Bishop Laval celebrated at Quebec. July 20-31, Quebec tercentenary celebrations; Visit of Prince of Wales to Quebec. Aug. 2, Great fire in Kootenay Valley, B.C. University of British Columbia founded.
1909. Jan. 11, Signing of International Boundary Waters Convention between Canada and United States. Jan. 20, Opening of 11th Dominion Parliament. July 28, Conference on Imperial defence in London.
1910. May 6, Death of King Edward VII and accession of King George V. June 7, Death of Goldwin Smith. Sept. 7, North Atlantic Coast Fisheries Arbitration Award of the Hague Tribunal. New trade agreements made with Germany, Belgium, Holland and Italy.
1911. May 23-June 20, Imperial Conference in London. June 1, Fifth Dominion Census. July 11, Disastrous fires in Porcupine district. Sept. 21, General election. Oct. 10 (Sir) R. L. Borden, Prime Minister. Oct. 11, Inauguration at Kitchener of Ontario hydro-electric power transmission system. Nov. 15, Opening of twelfth Dominion Parliament.
1912. April 15, Loss of the steamship *Titanic*; Appointment of Dominions Royal Commission. May 15, Extension of the boundaries of Quebec, Ontario and Manitoba.

1913. April 10, Japanese Treaty Act assented to. June 2, Trade agreement with West Indies came into force.
1914. May 20, Loss of the steamship *Empress of Ireland*. Aug. 4, War with Germany; Aug. 12, with Austria-Hungary; Nov. 5, with Turkey. Aug. 18-22, Special war session of Canadian Parliament. Oct. 16, First Canadian contingent of over 33,000 troops lands at Plymouth, Eng.
1915. February, First Canadian contingent lands in France and proceeds to Flanders. April 22, Second Battle of Ypres. April 24, Battle of St. Julien. May 20-26, Battle of Festubert. June 15, Battle of Givenchy.
1916. Jan. 12, Order in Council authorizing increase in number of Canadian troops to 500,000. Feb. 3, Destruction of the Houses of Parliament at Ottawa by fire. April 3-20, Battle of St. Eloi. June 1, Census of Prairie Provinces. June 1-3, Battle of Sanctuary Wood. July 1, Commencement of the Battle of the Somme. Sept. 1, Cornerstone of new Houses of Parliament laid by Duke of Connaught.
1917. Feb. 12-May 15, Imperial Conference. Mar. 20-May 2, Meetings in London of Imperial War Cabinet. Mar. 21-April 27, Imperial War Conference. April 6, United States declares war against Germany. April 9, Capture of Vimy Ridge. June 21, Appointment of Food Controller. Aug. 15, Battle of Loos, capture of Hill 70. Aug. 29, Passing of Military Service Act. Sept. 20, Completion of Quebec bridge; Parliamentary franchise extended to women. Oct. 26-Nov. 10, Battle of Passchendaele. Dec. 6, Disastrous explosion at Halifax, N.S. Dec. 17, General election and Union Government sustained.
1918. Mar. 18, Opening of first session of thirteenth Parliament. Mar. 31, Germans launch critical offensive on West Front. March-April, Second Battle of the Somme. April 17, Secret session of Parliament. June-July, Prime Minister and colleagues attend Imperial War Conference in London. July 18, Allies assume successful offensive on West Front. Aug. 12, Battle of Amiens. Aug. 26-28, Capture of Monchy le Preux. Sept. 2-4, Breaking of Drocourt-Quéant line. Sept. 16, Austrian peace note. Sept. 27-29, Capture of Bourslon Wood. Sept. 30, Bulgaria surrenders and signs armistice. October, Serious influenza epidemic. Oct. 1-9, Capture of Cambrai. Oct. 6, First German peace note. Oct. 20, Capture of Denain. Oct. 25-Nov. 2, Capture of Valenciennes. Oct. 31, Turkey surrenders and signs armistice. Nov. 4, Austria-Hungary surrenders and signs armistice. Nov. 11, Capture of Mons. Germany surrenders and signs armistice.
1919. Feb. 17, Death of Sir Wilfrid Laurier. Feb. 20-July 7, Second session of thirteenth Parliament. May 1-June 15, General strike at Winnipeg and other western cities. June 28, Signing at Versailles of Peace Treaty and Protocol. Aug. 15, Arrival of the Prince of Wales for official tour in Canada. Aug. 22, Formal opening of Quebec Bridge by the Prince of Wales. Sept. 1, The Prince of Wales lays foundation stone of tower of new Parliament Buildings at Ottawa. Sept. 1-Nov. 10, Third or special peace session, thirteenth Parliament of Canada. Dec. 20, Organization of "Canadian National Railways" by Order in Council.
1920. Jan. 10, Ratifications of the Treaty of Versailles. Feb. 19, Shareholders ratify agreement for sale of the Grand Trunk Railway to the Dominion Government. Feb. 26-July 1, Fourth session of the thirteenth Parliament of Canada. May 31-June 18, Trade Conference at Ottawa between Dominion and West Indian Governments. July 10, Sir Robert Borden is succeeded by Rt. Hon. Arthur Meighen as Prime Minister. July 16, Ratifications of the Treaty of St. Germain-en-Laye. Aug. 9, Ratifications of the Treaty of Neuilly-sur-Seine. Nov. 15, First meeting of League of Nations Assembly begins at Geneva, Switzerland.
1921. Feb. 14-June 4, Fifth session of thirteenth Parliament of Canada. May 10, Preferential tariff arrangement with British West Indies becomes effective. June 1, Sixth Dominion Census. June 20-Aug. 5, Imperial Conference. Sept. 5-Oct. 5, Second meeting of Assembly of League of Nations at Geneva. Nov. 11, Opening of conference on limitation of armament at Washington. Dec. 6, Dominion general election. Dec. 29, New Ministry (Liberal), with Right Hon. W. L. Mackenzie King as Prime Minister, is sworn in.
1922. Feb. 1, Arms Conference at Washington approves 5-power treaty, limiting capital fighting ships and disapproving unrestricted submarine warfare and use of poison gas. Mar. 8-June 28, First session of fourteenth Parliament of Canada. April 10, General Economic Conference opened at Genoa. July 13, Conference between Canada and the United States re perpetuating the Rush-Bagot treaty regarding armament on the Great Lakes. Aug. 7, Allies' Conference on war debts and reparations opened at London. Sept. 4, Third Assembly

- of League of Nations opened at Geneva. Oct. 10, Mudania Armistice signed by Britain, France and Turkey. Oct. 14, Fourth International Labour Conference at Geneva. Nov. 20, Turkish Peace Conference opened at Lausanne. Dec. 9, Reparations Conference opened at London. Dec. 15, Signing of trade agreement between Canada and France.
1923. Jan. 4, Signing of trade agreement between Canada and Italy. Jan. 31-June 30, Second session of fourteenth Parliament of Canada. April 1, Removal of British embargo on Canadian cattle effective. Sept. 3, Fourth session of League of Nations at Geneva. Oct. 1, Imperial Conference and Economic Conference at London.
1924. Feb. 28-July 19, Third session of the fourteenth Parliament of Canada. April 23, British Empire Exhibition opened by King George at Wembley, England, with the Prince of Wales as President. July 3, Trade agreement between Canada and Belgium signed at Ottawa. Aug. 6-16, Meeting of the British Association for the Advancement of Science at Toronto. Aug. 11-16, Meeting of International Mathematical Congress at Toronto. Sept. 1, Opening of fifth session of League of Nations at Geneva, Switzerland.
1925. Feb. 5-June 27, Fourth session of fourteenth Parliament of Canada. June 2, Provincial general election in Saskatchewan. Liberal party under Hon. C. A. Dunning returned to office. June 10, Inauguration of the United Church of Canada. June 25, Provincial general election in Nova Scotia; Conservative party under Hon. E. N. Rhodes returned to office. July 6, Signing at Ottawa of trade agreement between Canada and the British West Indies. Aug. 10, Provincial general election in New Brunswick; Conservative party under Hon. J. B. M. Baxter returned to office. Sept. 5, Fourteenth Parliament dissolved. Oct. 29, Dominion general elections. Nov. 20, Death of Queen Alexandra.
1926. Jan. 7-July 1, First session of fifteenth Parliament of Canada. April 15, Budget speech; reductions of income and other taxes announced. June 28, Resignation of Rt. Hon. W. L. Mackenzie King, Prime Minister, and his Cabinet. Provincial general elections in Alberta; United Farmers under Premier Brownlee retain office. June 29, Rt. Hon. Arthur Meighen becomes Prime Minister. July 1, Two-cent domestic rate of postage restored. July 2, Fifteenth Parliament dissolved. July 13, Composition of Mr. Meighen's Cabinet announced (see p. 77 of the 1927-28 Year Book). Sept. 14, Dominion general elections. Sept. 25, Rt. Hon. W. L. Mackenzie King becomes Prime Minister (for composition of Cabinet see p. 69 of the 1930 Year Book). Oct. 19-Nov. 23, Imperial Conference in London. Nov. 26, Hon. C. Vincent Massey is appointed Envoy Extraordinary and Minister Plenipotentiary to the United States. Dec. 1, General election in Ontario; Ferguson Government retains office. Dec. 9, Opening of first session of sixteenth Parliament.
1927. Feb. 8-April 14, Continuation of first session of the sixteenth Parliament of Canada. Feb. 17, Budget speech; reductions of income tax, sales tax and stamp tax on cheques announced. May 16, General elections in Quebec; the Liberal Government of Hon. L. A. Taschereau sustained. June 1, Hon. Wm. Phillips, first U.S. Minister to Canada, reaches Ottawa. June 25, General election in Prince Edward Island; the Conservative Government of Hon. J. D. Stewart defeated. June 28, General election in Manitoba; the Government of Hon. John Bracken sustained. July 1-3, Diamond Jubilee of Confederation celebrated throughout the Dominion. July 30, The Prince of Wales, Prince George, the Rt. Hon. Stanley Baldwin and party, arrive at Quebec on a visit to Canada. September, Canada elected as a non-permanent member of the Council of the League of Nations at Geneva. November, Dominion-Provincial Conference on the relations between the Dominion and the provinces.
1928. Jan. 26-June 11, Second session of the sixteenth Parliament of Canada. Jan. 30, President Cosgrave of the Irish Free State visits Ottawa. Feb. 16, Budget speech announces reduction in taxation. April 25, Sir Wm. H. Clark appointed first British High Commissioner to Canada. May 31, Legislative Council of Nova Scotia ceases to exist, leaving Quebec as the only province with a bi-cameral Legislature. July 18, General elections in British Columbia; Conservatives successful. Aug. 24-Oct. 5, Empire Parliamentary Association visits Canada. Oct. 1, General elections in Nova Scotia; Conservatives retain power.
1929. Feb. 7-June 14, Third session of the sixteenth Parliament of Canada. Mar. 29, Death of Sir Lomer Gouin. June 5, General election in Saskatchewan. Sept. 9, Dr. J. T. M. Anderson becomes Premier of Saskatchewan. Oct. 15-25, The Rt. Hon. J. Ramsay MacDonald, Prime Minister of Great Britain, visits Canada. Oct. 30, General



- elections in Ontario; Conservatives retain power. Nov. 11, Death of Hon. Jas. A. Robb, Minister of Finance. Dec. 14, Transfer of natural resources to Manitoba and Alberta.
1930. Jan. 21, Five power naval arms conference opens at London; Canada represented by Hon. J. L. Ralston. Feb. 3, Death of Hon. P. C. Larkin. Feb. 20, Fourth session of the sixteenth Parliament of Canada commences. Transfer of natural resources to British Columbia. Mar. 20, Transfer of natural resources to Saskatchewan. May 30, Dissolution of sixteenth Parliament of Canada. June 19, General elections in Alberta; United Farmers retain power. June 20, General election in New Brunswick; Conservatives retain power. July 28, Dominion general election. Liberal Government of Rt. Hon. W. L. Mackenzie King defeated. Aug. 1, H.M. Airship R-100 arrives at Montreal, being the first transatlantic lighter-than-air craft to reach Canada. Aug. 7, Conservative Government of Hon. R. B. Bennett takes office as the fifteenth Ministry since Confederation (for the names of the Ministers see p. 67). Sept. 8-22, First (special) session of the seventeenth Parliament of Canada. Oct. 1, Imperial Conference in London. Dec. 20, Viscount Willingdon, Governor General of Canada, is appointed Viceroy of India by the King.
1931. Feb. 9, The Earl of Bessborough is appointed Governor General of Canada. Mar. 12-Aug. 3, Second session of the seventeenth Parliament of Canada. June 1, Seventh Dominion Census. June 11, Remembrance Day (Nov. 11) proclaimed a general holiday by Act of Parliament. June 22, The U.S. Government grants a one-year moratorium on war debts owing by foreign governments on condition that similar treatment is accorded to Germany in regard to reparation payments. June 30, The Statute of Westminster exempting the Dominion and the provinces from the operation of the Colonial Laws Validity Act and the Merchant Shipping Act is approved by the House of Commons. Aug. 6, Provincial election in Prince Edward Island results in defeat of the Liberal Administration of Hon. D. M. Lea by the Conservatives under Hon. J. D. Stewart. Aug. 24, Hon. L. A. Taschereau's Liberal Administration is sustained in a general election in Quebec. Sept. 21, Great Britain suspends specie payments, following which Canada restricts the export of gold. Nov. 21, Abnormal Importations Act, extending preference to Empire products, assented to in the United Kingdom. Dec. 1, Ottawa Branch of the Royal Mint transferred to the Dominion. Dec. 12, Statute of Westminster establishing complete legislative equality of the Parliament of Canada with that of the United Kingdom becomes effective.
1932. Feb. 4-May 26, Third session of the seventeenth Parliament of Canada. June 16, General election in Manitoba; the Bracken Government retains power. July 18, Treaty between Canada and the United States, providing for the construction of the St. Lawrence Seaway, signed at Washington. July 21-Aug. 20, Imperial Economic Conference at Ottawa. Aug. 6, Official opening of the Welland Ship Canal. Oct. 6-Nov. 25, Beginning of fourth session of the seventeenth Parliament of Canada.
1933. Jan. 17-19, Dominion-Provincial Conference. Jan. 30-May 27, Continuation of fourth session of the seventeenth Parliament. May 18, Celebration of the 150th anniversary of the landing of the Loyalists at Saint John. July 13, Visit of Italian hydroplanes *en route* to Chicago Exhibition. Aug. 22, Provincial general election in Nova Scotia; Liberals under A. L. Macdonald returned. Nov. 2, Provincial general election in British Columbia; Liberals under T. D. Pattullo returned.
1934. Jan. 1, Resumption of granting of titles in Canada. Jan. 25-July 3, Fifth session of the seventeenth Parliament of Canada. Mar. 6, Centenary of city of Toronto celebrated. June 19, General elections in Ontario and Saskatchewan; Liberals under M. F. Hepburn in Ontario and J. G. Gardiner in Saskatchewan returned. July 15th, Three Rivers begins Tercentenary celebrations. August, Celebration at Gaspé of the four-hundredth anniversary of the first landing of Jacques Cartier in Canada.

## CHAPTER III.—CONSTITUTION AND GOVERNMENT.

The Dominion of Canada is the largest in area and the most populous of the great self-governing Dominions of the British Empire, which also include the Irish Free State (Saorstát Éireann), the Commonwealth of Australia, the Union of South Africa, the Dominion of New Zealand, the island colony of Newfoundland (with the Labrador coast),\* and the colony of Southern Rhodesia. These Dominions enjoy responsible government of the British type, administered by Executive Councils (or Cabinets), acting as advisers to the representatives of the Sovereign, the Executive Councils being themselves responsible to, and possessing the confidence of, the representatives elected to Parliament by the people, and giving place to other persons more acceptable to Parliament whenever that confidence is shown to have ceased to exist. The Imperial Conference of 1926 defined the group of self-governing communities consisting of Great Britain and the Dominions as "autonomous Communities within the British Empire, equal in status, in no way subordinate one to another in any aspect of their domestic or foreign affairs, though united by a common allegiance to the Crown and freely associated as members of the British Commonwealth of Nations". The Conference further laid down that, as a consequence of this equality of status, the Governor General of a Dominion "is the representative of the Crown, holding in all essential respects the same position in relation to the administration of public affairs in the Dominion as is held by His Majesty the King in Great Britain", and that "it is the right of the Government of each Dominion to advise the Crown in all matters relating to its own affairs". The Conference also recognized certain treaty-making rights as appertaining to the Dominion. At the Imperial Conference of 1930 the constitutional status of the Dominions was further strengthened by the decisions to repeal the Colonial Laws Validity Act and to establish a voluntary Empire judicial tribunal. It was also definitely laid down that the King appoints his Governors General through the Dominion Governments. An Address of the Parliament of Canada to His Majesty was adopted by the House of Commons on June 30, and by the Senate on July 6, 1931, praying for the enactment by the Parliament of the United Kingdom of the Statute of Westminster removing the remaining legal limitations under the Colonial Laws Validity Act of 1895, the Merchant Shipping Act of 1894 and the Colonial Courts of Admiralty Act of 1890 on the legislative autonomy of the Dominions. In compliance with this Address and similar Addresses from the Parliaments of other Dominions, the Parliament of the United Kingdom having enacted legislation to this effect, the Royal Assent was given thereto on Dec. 12, 1931.

Of the Dominions, Canada, Australia and South Africa extend over enormous areas of territory, each of the first two approximating in area to Europe, and including great provinces or states larger than most of its Great Powers. Each province or state has its own problems and its own point of view, so that local Parliaments for each section, as well as the central Parliament for the whole country, are required. These local Parliaments, established when transportation and communication were more difficult and expensive than at present, were chronologically prior to the central body, to which on its formation they either resigned certain powers, as in the case

\* As the result of the depression and the consequent financial embarrassments, the Constitution of Newfoundland, on the initiative of the Newfoundland Legislature, was temporarily suspended by the Newfoundland Act passed by the British Parliament on Dec. 21, 1933.

of Australia, or surrendered all their powers with certain specified exceptions, as in Canada and South Africa. Of such local Parliaments, Canada at the present time has nine, Australia six, and South Africa four.

Besides the Dominions above enumerated, the great Empire of India has been accepted internationally as a member of the League of Nations, and in its internal administration has been placed on the road, formerly traversed by the Dominions which are now fully self-governing, towards responsible government. India proved her loyalty to the Empire in the Great War and, as the result of the work of Royal Commissions and conferences, a constitution for India along Dominion lines is now (January, 1935), nearing its final stages of preparation before presentation to the British House of Commons.\* Although the steps so far taken do not meet the demands of the more radical elements, the result will probably mark as great an advance as the country is now prepared to make. The whole evolution of the Empire, throughout all its parts which are more than mere fortresses like Gibraltar or trading stations like Hong Kong, is in the direction of responsible government, to be attained in the dependencies as it has been in what used to be called the colonies, by the gradual extension of self-government in proportion to the growing capacities of their respective populations. It is the recognized aim of British administrators, by the extension of educational facilities and by just administration to develop these capacities to the utmost, so that in the dependencies, as well as in the Dominions and in the Mother Country, the constitutional history of the future may be a record of "freedom slowly broadening down from precedent to precedent".

## PART I.—CONSTITUTION AND GENERAL GOVERNMENT.

Under the above heading a brief historical and descriptive account of the evolution of the general government of Canada was given on pp. 89-100 of the Canada Year Book, 1922-23.

## PART II.—PROVINCIAL AND LOCAL GOVERNMENT.

Under the heading "Provincial and Local Government in Canada", a brief account of the government of each of the provinces of Canada and of its municipal institutions and judicial organization was published on pp. 101-115 of the 1922-23 edition of the Year Book.

## PART III.—LEGISLATIVE AND EXECUTIVE AUTHORITIES.

### Section 1.—Dominion Parliament and Ministry.

The Dominion Parliament is composed of the King, represented by the Governor General, the Senate and the House of Commons. The Governor General is appointed by the King on the advice of the Government of Canada. Members of the Senate are appointed for life by the Governor General in Council and members of the House of Commons are elected by the people. As a result of the working out of the democratic principle, the part played by the King's Representative and the Upper Chamber of Parliament in the country's legislation has been, in Canada as in the Mother Country, a steadily decreasing one, the chief responsibilities involved in legislation being assumed by the House of Commons.

\* Sir Samuel Hoare, Secretary of State for India, moved the Second Reading of the India Constitution Bill in the British House of Commons on Feb. 6, 1935. In instructions later issued to the Governor General the British Government renewed the pledge, given in 1919, that the ultimate goal was Dominion status for India.



**Subsection 1.—The Governor General of Canada.**

The Governor General is appointed by the King as his representative in Canada, usually for a term of five years, with a salary fixed at £10,000 sterling per annum and forming a charge against the consolidated revenue of the country. The Governor General is bound by the terms of his commission and can exercise only such authority as is expressly entrusted to him. He acts under the advice of his Ministry, which is responsible to Parliament, and, as the acting head of the Executive, summons, prorogues, and dissolves Parliament and assents to or reserves bills. In the discharge of these and other executive duties, he acts entirely by and with the advice of his Ministry (the Governor General in Council). The royal prerogative of mercy in capital cases, formerly exercised on the Governor General's own judgment and responsibility, is now exercised pursuant to the advice of the Ministry. The practice whereby the Governor General served as the medium of communication between the Canadian and the British Governments has been given up; since July 1, 1927, direct communication between His Majesty's Government in Canada and His Majesty's Government in Great Britain has been instituted.

A list of the Governors General from the time of Confederation, with the dates of their appointment and assumption of office, is given in Table 1.

**1.—Governors General of Canada, 1867-1935.**

| Name.                                                         | Date of Appointment. | Date of Assumption of Office. |
|---------------------------------------------------------------|----------------------|-------------------------------|
| Viscount Monck, G.C.M.G.....                                  | June 1, 1867         | July 1, 1867                  |
| Lord Lisgar, G.C.M.G.....                                     | Dec. 29, 1868        | Feb. 2, 1869                  |
| The Earl of Dufferin, K.P., K.C.B., G.C.M.G.....              | May 22, 1872         | June 25, 1872                 |
| The Marquis of Lorne, K.T., G.C.M.G.....                      | Oct. 5, 1878         | Nov. 25, 1878                 |
| The Marquis of Lansdowne, G.C.M.G.....                        | Aug. 18, 1883        | Oct. 23, 1883                 |
| Lord Stanley of Preston, G.C.B.....                           | May 1, 1888          | June 11, 1888                 |
| The Earl of Aberdeen, K.T., G.C.M.G.....                      | May 22, 1893         | Sept. 18, 1893                |
| The Earl of Minto, G.C.M.G.....                               | July 30, 1898        | Nov. 12, 1898                 |
| Earl Grey, G.C.M.G.....                                       | Sept. 26, 1904       | Dec. 10, 1904                 |
| Field Marshal H.R.H. the Duke of Connaught, K.G.....          | Mar. 21, 1911        | Oct. 13, 1911                 |
| The Duke of Devonshire, K.G., G.C.M.G., G.C.V.O.....          | Aug. 19, 1916        | Nov. 11, 1916                 |
| General the Lord Byng of Vimy, G.C.B., G.C.M.G., M.V.O.....   | Aug. 2, 1921         | Aug. 11, 1921                 |
| Viscount Willingdon of Rattou, G.C.S.I., G.C.I.E., G.B.E..... | Aug. 5, 1926         | Oct. 2, 1926                  |
| The Earl of Bessborough, G.C.M.G.....                         | Feb. 9, 1931         | April 4, 1931                 |

**Subsection 2.—The Ministry.**

A system of government based upon the British, by which a Cabinet or Ministry (composed of members of the House of Commons or the Senate), responsible to Parliament, holds office while it enjoys the confidence of the people's representatives, is found in Canada. The Cabinet is actually a committee of the King's Privy Council for Canada. Without enlarging upon the features of the system, it may be sufficient to note that the Cabinet is responsible to the House of Commons, and, following established precedent, resigns office when it becomes evident that it no longer holds the confidence of the people's representatives. Members of the Cabinet are chosen by the Prime Minister; each of them generally assumes charge of one of the various Departments of the Government, although one Minister may hold two portfolios at the same time, while other Ministers may be without portfolio.

The Prime Ministers since Confederation and the dates of their tenures of office, together with the members of the Fifteenth Ministry, are given in Table 2. The complete list of the members of the King's Privy Council for Canada, as at Mar. 1, 1935, is added as Table 3.

## 2.—Ministries since Confederation and Members of the Fifteenth Ministry.

NOTE.—A complete list of the members of Dominion Ministries from Confederation to 1913 appeared in the Year Book of 1912, pp. 422-429. A list of the members of Dominion Ministries from 1911 to 1921 appeared in the Year Book of 1920, pp. 651-653. A list of the members of the Twelfth and Thirteenth Ministries appeared on pp. 76-77 of the 1927-28 Year Book. Members of the Fourteenth Ministry are listed at p. 65 of the 1929 Year Book and p. 69 of the 1930 Year Book.

1. Rt. Hon. Sir John A. Macdonald, Prime Minister. From July 1, 1867, to Nov. 6, 1873.
2. Hon. Alexander Mackenzie, Prime Minister. From Nov. 7, 1873, to Oct. 16, 1878.
3. Rt. Hon. Sir John A. Macdonald, Prime Minister. From Oct. 17, 1878, to June 6, 1891.
4. Hon. Sir John J. C. Abbott, Prime Minister. From June 16, 1891, to Dec. 5, 1892.
5. Hon. Sir John S. D. Thompson, Prime Minister. From Dec. 5, 1892, to December 12, 1894.
6. Hon. Sir Mackenzie Bowell, Prime Minister. From Dec. 21, 1894, to April 27, 1896.
7. Hon. Sir Charles Tupper, Prime Minister. From May 1, 1896, to July 8, 1896.
8. Rt. Hon. Sir Wilfrid Laurier, Prime Minister. From July 11, 1896, to Oct. 6, 1911.
9. Rt. Hon. Sir Robert L. Borden, Prime Minister. (Conservative Administration.) From Oct. 10, 1911, to Oct. 12, 1917.
10. Rt. Hon. Sir Robert L. Borden, Prime Minister. (Unionist Administration.) From Oct. 12, 1917, to July 10, 1920.
11. Rt. Hon. Arthur Meighen, Prime Minister. (Unionist—"National Liberal and Conservative Party".) From July 10, 1920, to Dec. 29, 1921.
12. Rt. Hon. William Lyon Mackenzie King, Prime Minister. From Dec. 29, 1921, to June 28, 1926.
13. Rt. Hon. Arthur Meighen, Prime Minister. From June 29, 1926, to Sept. 25, 1926.
14. Rt. Hon. William Lyon Mackenzie King, Prime Minister. From Sept. 25, 1926, to Aug. 6, 1930.
15. Rt. Hon. R. B. Bennett, Prime Minister. From Aug. 7, 1930.

### FIFTEENTH DOMINION MINISTRY.

(According to precedence of the Ministers as at the formation of the Cabinet.)

| Office.                                                                                      | Occupant.                                                             | Date of Appointment. |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------|
| Prime Minister, President of the Privy Council, Secretary of State for External Affairs..... | Right Hon. R. B. Bennett, K.C.                                        | Aug. 7, 1930         |
| Minister of Finance.....                                                                     | Right Hon. R. B. Bennett, K.C.                                        | Aug. 7, 1930         |
| Minister without portfolio.....                                                              | Hon. E. N. Rhodes, K.C.                                               | Feb. 3, 1932         |
| Minister without portfolio.....                                                              | Rt. Hon. Sir Geo. H. Perley, G.C.M.G.                                 | Aug. 7, 1930         |
| Minister without portfolio.....                                                              | Right Hon. Arthur Meighen (Senator).....                              | Feb. 3, 1932         |
| Minister of Labour.....                                                                      | Hon. Gideon D. Robertson (Senator).....                               | Aug. 7, 1930         |
| Minister of Justice and Attorney-General.....                                                | Hon. W. A. Gordon, K.C.                                               | Feb. 3, 1932         |
| Minister of Fisheries.....                                                                   | Hon. Hugh Guthrie, K.C.                                               | Aug. 7, 1930         |
|                                                                                              | Hon. E. N. Rhodes, K.C.                                               | Aug. 7, 1930         |
|                                                                                              | Hon. Alfred Duranleau, K.C. (Acting).....                             | Feb. 3, 1932         |
| Minister of Trade and Commerce.....                                                          | Hon. H. H. Stevens.....                                               | Aug. 7, 1930         |
|                                                                                              | Hon. R. B. Hanson, K.C.                                               | Nov. 17, 1934        |
| Minister of Railways and Canals.....                                                         | Hon. R. J. Manion, M.C., M.D.                                         | Aug. 7, 1930         |
| Minister of National Revenue.....                                                            | Hon. E. B. Ryckman, K.C.                                              | Aug. 7, 1930         |
|                                                                                              | Hon. Robert C. Matthews.....                                          | Dec. 6, 1933         |
| Minister without portfolio.....                                                              | Hon. J. A. Macdonald.....                                             | Aug. 7, 1930         |
| Postmaster-General.....                                                                      | Hon. Arthur Sauvé.....                                                | Aug. 7, 1930         |
| Minister of Pensions and National Health.....                                                | Col. the Hon. Murray MacLaren, C.A.M.C., C.M.G., M.D., C.M., M.R.C.S. | Aug. 7, 1930         |
|                                                                                              | Lt. Col. the Hon. D. M. Sutherland, M.B., D.S.O.                      | Nov. 17, 1934        |
| Minister of Public Works.....                                                                | Hon. H. A. Stewart, K.C.                                              | Aug. 7, 1930         |
| Secretary of State.....                                                                      | Col. C. H. Cahan, K.C.                                                | Aug. 7, 1930         |
| Minister of National Defence.....                                                            | Lt.-Col. the Hon. D. M. Sutherland, M.B., D.S.O.                      | Aug. 7, 1930         |
|                                                                                              | Hon. Grote Stirling.....                                              | Nov. 17, 1934        |
|                                                                                              | Hon. Alfred Duranleau, K.C.                                           | Aug. 7, 1930         |
| Minister of Marine.....                                                                      |                                                                       |                      |
| Minister of Interior and Superintendent-General of Indian Affairs.....                       | Hon. Thomas G. Murphy.....                                            | Aug. 7, 1930         |
| Solicitor-General.....                                                                       | Hon. Maurice Dupré, K.C.                                              | Aug. 7, 1930         |
| Acting Minister of Immigration and Colonization and Minister of Mines.....                   | Hon. W. A. Gordon, K.C.                                               | Aug. 7, 1930         |
| Minister of Agriculture.....                                                                 | Major the Hon. Robert Weir....                                        | Aug. 7, 1930         |

### 3.—Members of the King's Privy Council for the Dominion of Canada, According to Seniority Therein,<sup>1</sup> as at Mar, 1, 1935.

NOTE.—In this list the prefix Rt. Hon. indicates membership in the British Privy Council. Besides those mentioned in this list, the Rt. Hon. Sir Lyman P. Duff, K.C.M.G., Chief Justice of the Supreme Court, is a Canadian member of the British Privy Council.

| Name.                                                   | Date when Sworn In. | Name.                                                                            | Date when Sworn In. |
|---------------------------------------------------------|---------------------|----------------------------------------------------------------------------------|---------------------|
| The Rt. Hon. Sir William Mulock..                       | July 13, 1896       | The Hon. James H. King.....                                                      | Feb. 3, 1922        |
| The Rt. Hon. Sir Charles Fitzpatrick <sup>2</sup>       | Feb. 11, 1902       | The Hon. Edward Mortimer Macdonald.....                                          | April 12, 1923      |
| The Hon. Sir A. B. Aylesworth.....                      | Oct. 16, 1905       | The Hon. Edward James McMurray                                                   | Nov. 14, 1923       |
| The Hon. Rodolphe Lemieux.....                          | June 4, 1906        | The Hon. Pierre Joseph Arthur                                                    |                     |
| The Rt. Hon. George P. Graham.....                      | Aug. 30, 1907       | Cardin.....                                                                      | Jan. 30, 1924       |
| The Hon. Chas. Murphy.....                              | Oct. 5, 1908        | The Hon. George Newcombe Gordon.....                                             | Sept. 7, 1925       |
| The Hon. R. Dandurand.....                              | Jan. 20, 1909       | The Hon. Herbert Marler <sup>3</sup> .....                                       | Sept. 9, 1925       |
| The Rt. Hon. W. L. Mackenzie King <sup>4</sup>          | June 2, 1909        | The Hon. Charles Vincent Massey.....                                             | Sept. 16, 1925      |
| The Hon. Henri S. Béland.....                           | Aug. 19, 1911       | The Hon. Walter Edward Foster.....                                               | Sept. 20, 1925      |
| The Rt. Hon. Sir Robert Laird Borden.....               | Oct. 10, 1911       | The Hon. Philippe Roy <sup>5</sup> .....                                         | Feb. 9, 1926        |
| The Rt. Hon. Sir George Halsey Perley <sup>2</sup>      | Oct. 10, 1911       | The Hon. Charles A. Dunning.....                                                 | Mar. 1, 1926        |
| The Hon. Robert Rogers.....                             | Oct. 10, 1911       | The Hon. John C. Elliott.....                                                    | Mar. 8, 1926        |
| The Rt. Hon. Sir Thomas White.....                      | Oct. 10, 1911       | The Hon. James D. Chaplin.....                                                   | July 13, 1926       |
| The Hon. Sir John Douglas Hazen.....                    | Oct. 10, 1911       | The Hon. George Burpee Jones.....                                                | July 13, 1926       |
| The Hon. William James Roche.....                       | Oct. 10, 1911       | The Hon. Donald Sutherland.....                                                  | July 13, 1926       |
| The Hon. Wilfrid Bruno Nantel.....                      | Oct. 10, 1911       | The Hon. Raymond Ducharme                                                        |                     |
| The Hon. Martin Burrell.....                            | Oct. 16, 1911       | Morand.....                                                                      | July 13, 1926       |
| The Hon. Charles Marcell.....                           | Feb. 15, 1912       | The Hon. John Alexander Macdonald <sup>2</sup>                                   | July 13, 1926       |
| The Hon. Pierre Edouard Blondin.....                    | Oct. 20, 1914       | The Hon. John Leo Chabot.....                                                    | July 19, 1926       |
| The Rt. Hon. Arthur Meighen <sup>2</sup> .....          | Oct. 2, 1915        | The Hon. Eugène Paquet.....                                                      | Aug. 23, 1926       |
| The Hon. Esioff Léon Patenaude.....                     | Oct. 6, 1915        | The Hon. Guillaume André Fauteux.....                                            | Aug. 23, 1926       |
| The Rt. Hon. William Morris Hughes.....                 | Feb. 18, 1916       | The Hon. Lucien Cannon.....                                                      | Sept. 25, 1926      |
| The Hon. Albert Sévigny.....                            | Jan. 8, 1917        | The Hon. Peter John Veniot.....                                                  | Sept. 25, 1926      |
| The Hon. Charles Colquhoun Ballantyne.....              | Oct. 3, 1917        | The Hon. William D. Euler.....                                                   | Sept. 25, 1926      |
| The Hon. James Alexander Calder.....                    | Oct. 12, 1917       | The Hon. Fernand Rinfret.....                                                    | Sept. 25, 1926      |
| The Hon. Newton Wesley Rowell.....                      | Oct. 12, 1917       | The Hon. James Malcolm.....                                                      | Sept. 25, 1926      |
| The Hon. Sydney Chilton Mewburn.....                    | Oct. 12, 1917       | The Hon. Peter Heenan.....                                                       | Sept. 25, 1926      |
| The Hon. Thomas Alexander Crerar.....                   | Oct. 12, 1917       | The Hon. James Layton Ralston.....                                               | Oct. 8, 1926        |
| The Hon. Alexander K. Maclean.....                      | Oct. 23, 1917       | H.R.H. Edward Albert Christian George Andrew Patrick David, Prince of Wales..... | Aug. 2, 1927        |
| The Hon. Hugh Guthrie <sup>2</sup> .....                | July 5, 1919        | The Rt. Hon. Stanley Baldwin.....                                                | Aug. 2, 1927        |
| The Hon. Sir Henry Lumley Drayton.....                  | Aug. 2, 1919        | The Hon. Thomas Ahearn.....                                                      | Jan. 16, 1928       |
| The Hon. Simon Fraser Tolmie.....                       | Aug. 12, 1919       | The Rt. Hon. James Ramsay MacDonald.....                                         | Oct. 18, 1929       |
| The Hon. Fleming Blanchard McCurdy.....                 | July 13, 1920       | The Hon. William Frederick Kay.....                                              | June 17, 1930       |
| The Hon. Rupert W. Wigmore.....                         | July 13, 1920       | The Hon. Cyrus Maconnan.....                                                     | June 17, 1930       |
| The Hon. Edgar N. Rhodes <sup>2</sup> .....             | Feb. 22, 1921       | The Hon. Ian Alistair Mackenzie.....                                             | June 27, 1930       |
| The Hon. John Babington Macaulay Baxter.....            | Sept. 21, 1921      | The Hon. Arthur C. Hardy.....                                                    | July 31, 1930       |
| The Hon. Henry Herbert Stevens <sup>2</sup> .....       | Sept. 21, 1921      | The Hon. Arthur Sauvé <sup>2</sup> .....                                         | Aug. 7, 1930        |
| The Hon. Robert James Manion <sup>2</sup> .....         | Sept. 22, 1921      | The Hon. Murray MacLaren <sup>2</sup> .....                                      | Aug. 7, 1930        |
| The Hon. James Robert Wilson.....                       | Sept. 26, 1921      | The Hon. Hugh Alexander Stewart <sup>2</sup> .....                               | Aug. 7, 1930        |
| The Rt. Hon. Richard Bedford Bennett <sup>3</sup> ..... | Oct. 4, 1921        | The Hon. Charles Hazlitt Cahan <sup>2</sup> .....                                | Aug. 7, 1930        |
| The Hon. Ernest Lapointe.....                           | Dec. 29, 1921       | The Hon. Donald Matheson Sutherland <sup>2</sup> .....                           | Aug. 7, 1930        |
| The Hon. Arthur Bliss Copp.....                         | Dec. 29, 1921       | The Hon. Alfred Duranleau <sup>2</sup> .....                                     | Aug. 7, 1930        |
| The Hon. Charles Stewart.....                           | Dec. 29, 1921       | The Hon. Thomas Gerow Murphy <sup>2</sup> .....                                  | Aug. 7, 1930        |
| The Hon. William Richard Motherwell.....                | Dec. 29, 1921       | The Hon. Maurice Dupré <sup>2</sup> .....                                        | Aug. 7, 1930        |
| The Hon. James Murdock.....                             | Dec. 29, 1921       | The Hon. Wesley Ashton Gordon <sup>2</sup> .....                                 | Aug. 7, 1930        |
| The Hon. John Ewan Sinclair.....                        | Dec. 30, 1921       | The Hon. Robert Weir <sup>2</sup> .....                                          | Aug. 8, 1930        |
|                                                         |                     | The Hon. G. Howard Ferguson <sup>2</sup> .....                                   | Jan. 14, 1931       |
|                                                         |                     | The Hon. W. D. Herridge <sup>2</sup> .....                                       | June 17, 1931       |
|                                                         |                     | The Hon. Robert Charles Matthews <sup>2</sup> .....                              | Dec. 6, 1933        |
|                                                         |                     | The Hon. Richard Burpee Hanson <sup>2</sup> .....                                | Nov. 17, 1934       |
|                                                         |                     | The Hon. Grote Stirling <sup>2</sup> .....                                       | Nov. 17, 1934       |

<sup>1</sup> As in the case of Privy Counsellors of the United Kingdom, members of His Majesty's Privy Council for Canada take rank *inter se* according to the dates of their being sworn in. <sup>2</sup> Ranks as a member of the Cabinet. <sup>3</sup> Ranks as the Prime Minister of Canada. <sup>4</sup> Ranks as the Leader of the Opposition. <sup>5</sup> Ranks as Retired Chief Justice of Canada. <sup>6</sup> Canadian Ministers abroad.



In Table 4 are given the dates of the opening and prorogation of the sessions of the various Dominion Parliaments from 1867 to 1935.

#### 4.—Duration and Sessions of Dominion Parliaments, 1867-1935.

| Order of Parliament. | Session. | Date of Opening. | Date of Prorogation. | Days of Session.  | Date of Election, Writs Returnable, Dissolution and Length of Parliament. <sup>7</sup> |
|----------------------|----------|------------------|----------------------|-------------------|----------------------------------------------------------------------------------------|
| 1st Parliament.....  | 1st      | Nov. 1, 1867     | May 22, 1868         | 118 <sup>1</sup>  |                                                                                        |
|                      | 2nd      | April 15, 1869   | June 22, 1869        | 69                | Aug., Sept., 1867. <sup>3</sup>                                                        |
|                      | 3rd      | Feb. 15, 1870    | May 12, 1870         | 87                | Sept. 24, 1867. <sup>4</sup>                                                           |
|                      | 4th      | Feb. 15, 1871    | April 14, 1871       | 59                | July 8, 1872. <sup>5</sup>                                                             |
|                      | 5th      | April 11, 1872   | June 14, 1872        | 65                | 4 y., 9 m., 15 d. <sup>6</sup>                                                         |
| 2nd Parliament.....  | 1st      | Mar. 5, 1873     | Aug. 13, 1873        | 81 <sup>2</sup>   | July, Aug., Sept., 1872. <sup>3</sup>                                                  |
|                      | 2nd      | Oct. 23, 1873    | Nov. 7, 1873         | 16                | Sept. 3, 1872. <sup>4</sup>                                                            |
| 3rd Parliament.....  | 1st      | Mar. 26, 1874    | May 26, 1874         | 62                | Jan. 2, 1874. <sup>5</sup>                                                             |
|                      | 2nd      | Feb. 4, 1875     | April 8, 1875        | 64                | 1 y., 4m., 0 d. <sup>6</sup>                                                           |
|                      | 3rd      | Feb. 10, 1876    | April 12, 1876       | 63                | Jan. 22, 1874. <sup>4</sup>                                                            |
|                      | 4th      | Feb. 8, 1877     | April 28, 1877       | 80                | Feb. 21, 1874. <sup>4</sup>                                                            |
|                      | 5th      | Feb. 7, 1878     | May 10, 1878         | 93                | Aug. 17, 1878. <sup>5</sup>                                                            |
| 4th Parliament.....  | 1st      | Feb. 13, 1879    | May 15, 1879         | 92                | 4 y., 5 m., 25 d. <sup>6</sup>                                                         |
|                      | 2nd      | Feb. 12, 1880    | May 7, 1880          | 86                | Sept. 17, 1878. <sup>3</sup>                                                           |
|                      | 3rd      | Dec. 9, 1880     | Mar. 21, 1881        | 103               | Nov. 21, 1878. <sup>4</sup>                                                            |
|                      | 4th      | Feb. 9, 1882     | May 17, 1882         | 98                | May 18, 1882. <sup>5</sup>                                                             |
| 5th Parliament.....  | 1st      | Feb. 8, 1883     | May 25, 1883         | 107               | 3 y., 5 m., 28 d. <sup>6</sup>                                                         |
|                      | 2nd      | Jan. 17, 1884    | April 19, 1884       | 94                | June 20, 1882. <sup>3</sup>                                                            |
|                      | 3rd      | Jan. 29, 1885    | July 20, 1885        | 173               | Aug. 7, 1882. <sup>4</sup>                                                             |
| 6th Parliament.....  | 4th      | Feb. 25, 1886    | June 2, 1886         | 98                | Jan. 15, 1887. <sup>5</sup>                                                            |
|                      | 1st      | April 13, 1887   | June 23, 1887        | 72                | 4 y., 5 m., 10 d. <sup>6</sup>                                                         |
|                      | 2nd      | Feb. 23, 1888    | May 22, 1888         | 90                | Feb. 22, 1887. <sup>3</sup>                                                            |
|                      | 3rd      | Jan. 31, 1889    | May 2, 1889          | 92                | April 7, 1887. <sup>4</sup>                                                            |
| 7th Parliament.....  | 4th      | Jan. 16, 1890    | May 16, 1890         | 121               | Feb. 3, 1891. <sup>5</sup>                                                             |
|                      | 1st      | April 29, 1891   | Sept. 30, 1891       | 155               | 3 y., 9 m., 27 d. <sup>6</sup>                                                         |
|                      | 2nd      | Feb. 25, 1892    | July 9, 1892         | 136               |                                                                                        |
|                      | 3rd      | Jan. 26, 1893    | April 1, 1893        | 66                | Mar. 5, 1891. <sup>3</sup>                                                             |
|                      | 4th      | Mar. 15, 1894    | July 23, 1894        | 131               | April 25, 1891. <sup>4</sup>                                                           |
| 8th Parliament.....  | 5th      | April 18, 1895   | July 22, 1895        | 96                | April 24, 1896. <sup>5</sup>                                                           |
|                      | 6th      | Jan. 2, 1896     | April 23, 1896       | 111               | 5 y., 0 m., 0 d. <sup>6</sup>                                                          |
|                      | 1st      | Aug. 19, 1896    | Oct. 5, 1896         | 48                |                                                                                        |
|                      | 2nd      | Mar. 25, 1897    | June 29, 1897        | 97                | June 23, 1896. <sup>3</sup>                                                            |
|                      | 3rd      | Feb. 3, 1898     | June 13, 1898        | 131               | July 13, 1896. <sup>4</sup>                                                            |
| 9th Parliament.....  | 4th      | Mar. 16, 1899    | Aug. 11, 1899        | 149               | Oct. 9, 1900. <sup>5</sup>                                                             |
|                      | 5th      | Feb. 1, 1900     | July 18, 1900        | 168               | 4 y., 2 m., 26 d. <sup>6</sup>                                                         |
|                      | 1st      | Feb. 6, 1901     | May 23, 1901         | 107               | Nov. 7, 1900. <sup>3</sup>                                                             |
|                      | 2nd      | Feb. 13, 1902    | May 15, 1902         | 90                | Dec. 5, 1900. <sup>4</sup>                                                             |
| 10th Parliament..... | 3rd      | Mar. 12, 1903    | Oct. 24, 1903        | 227               | Sept. 29, 1904. <sup>5</sup>                                                           |
|                      | 4th      | Mar. 10, 1904    | Aug. 10, 1904        | 154               | 3 y., 9 m., 26 d. <sup>6</sup>                                                         |
|                      | 1st      | Jan. 11, 1905    | July 20, 1905        | 191               | Nov. 3, 1904. <sup>3</sup>                                                             |
|                      | 2nd      | Mar. 8, 1906     | July 13, 1906        | 128               | Dec. 15, 1904. <sup>4</sup>                                                            |
| 11th Parliament..... | 3rd      | Nov. 22, 1906    | April 27, 1907       | 157               | Sept. 17, 1908. <sup>5</sup>                                                           |
|                      | 4th      | Nov. 28, 1907    | July 20, 1908        | 236               | 3 y., 9 m., 4 d. <sup>6</sup>                                                          |
|                      |          |                  |                      |                   | Oct. 26, 1908. <sup>3</sup>                                                            |
| 12th Parliament..... | 1st      | Jan. 20, 1909    | May 19, 1909         | 120               | Dec. 3, 1908. <sup>4</sup>                                                             |
|                      | 2nd      | Nov. 11, 1909    | May 4, 1910          | 175               | July 29, 1911. <sup>5</sup>                                                            |
|                      | 3rd      | Nov. 17, 1910    | July 29, 1911        | 196 <sup>9</sup>  | 2 y., 7 m., 28 d. <sup>6</sup>                                                         |
|                      | 1st      | Nov. 15, 1911    | April 1, 1912        | 139               |                                                                                        |
|                      | 2nd      | Nov. 21, 1912    | June 6, 1913         | 173 <sup>9</sup>  |                                                                                        |
| 13th Parliament..... | 3rd      | Jan. 15, 1914    | June 12, 1914        | 148               | Sept. 21, 1911. <sup>3</sup>                                                           |
|                      | 4th      | Aug. 13, 1914    | Aug. 22, 1914        | 5                 | Oct. 7, 1911. <sup>4</sup>                                                             |
|                      | 5th      | Feb. 4, 1915     | April 15, 1915       | 71                | Oct. 6, 1917. <sup>5</sup>                                                             |
|                      | 6th      | Jan. 12, 1916    | May 18, 1916         | 127               | 6 y., 0 m., 0 d. <sup>6</sup>                                                          |
|                      | 7th      | Jan. 18, 1917    | Sept. 20, 1917       | 207 <sup>10</sup> |                                                                                        |
| 13th Parliament..... | 1st      | Mar. 18, 1918    | May 24, 1918         | 68                |                                                                                        |
|                      | 2nd      | Feb. 20, 1919    | July 7, 1919         | 138               | Dec. 17, 1917. <sup>3</sup>                                                            |
|                      | 3rd      | Sept. 1, 1919    | Nov. 10, 1919        | 71                | Feb. 27, 1918. <sup>4</sup>                                                            |
|                      | 4th      | Feb. 26, 1920    | July 1, 1920         | 127               | Oct. 4, 1921. <sup>5</sup>                                                             |
|                      | 5th      | Feb. 14, 1921    | June 4, 1921         | 111               | 3 y., 7 m., 6 d. <sup>6</sup>                                                          |

<sup>1</sup> Adjourned from Dec. 21, 1867, to Mar. 12, 1868, to allow the local legislatures to meet. <sup>2</sup> Adjourned May 23 till Aug. 13. <sup>3</sup> Period of general elections. <sup>4</sup> Writs returnable. <sup>5</sup> Dissolution of Parliament. <sup>6</sup> Duration of Parliament in years, months and days. The life of a Parliament is counted from the date of return of election writs to the date of dissolution, both days inclusive. <sup>7</sup> The ordinary legal limit of duration for each Parliament is five years. <sup>8</sup> Not including days (59) of adjournment from May 19 to July 18. <sup>9</sup> Not including days (25) of a journeymen from Dec. 19, 1912 to Jan. 14, 1913. <sup>10</sup> Not including days (39) of adjournment from Feb. 7 to Mar. 19, 1917.

## 4.—Duration and Sessions of Dominion Parliaments, 1867-1935—concluded.

| Order of Parliament. | Session. | Date of Opening. | Date of Prorogation. | Days of Session. | Date of Election, Writs Returnable, Dissolution and Length of Parliament. <sup>7</sup> |
|----------------------|----------|------------------|----------------------|------------------|----------------------------------------------------------------------------------------|
| 14th Parliament..... | 1st      | Mar. 8, 1922     | June 28, 1922        | 113              | Dec. 6, 1921. <sup>3</sup>                                                             |
|                      | 2nd      | Jan. 31, 1923    | June 30, 1923        | 151              | Jan. 14, 1922. <sup>4</sup>                                                            |
|                      | 3rd      | Feb. 28, 1924    | July 19, 1924        | 143              | Sept. 5, 1925. <sup>5</sup>                                                            |
|                      | 4th      | Feb. 5, 1925     | June 27, 1925        | 143              | 3 y., 7 m., 26 d. <sup>6</sup>                                                         |
| 15th Parliament..... | 1st      | Jan. 7, 1926     | July 2, 1926         | 177 <sup>1</sup> | Oct. 29, 1925. <sup>3</sup>                                                            |
|                      |          |                  |                      |                  | Dec. 7, 1925. <sup>4</sup>                                                             |
| 16th Parliament..... | 1st      | Dec. 9, 1926     | April 14, 1927       | 73 <sup>2</sup>  | July 2, 1926. <sup>5</sup>                                                             |
|                      | 2nd      | Jan. 26, 1928    | June 11, 1928        | 138              | 208 d. <sup>6</sup>                                                                    |
|                      | 3rd      | Feb. 7, 1929     | June 14, 1929        | 128              | Sept. 14, 1926. <sup>3</sup>                                                           |
|                      | 4th      | Feb. 20, 1930    | May 30, 1930         | 100              | Nov. 2, 1926. <sup>4</sup>                                                             |
| 17th Parliament..... | 1st      | Sept. 8, 1930    | Sept. 22, 1930       | 15               | May 30, 1930. <sup>5</sup>                                                             |
|                      | 2nd      | Mar. 12, 1931    | Aug. 3, 1931         | 145              | 3 y., 7 m., 0 d. <sup>6</sup>                                                          |
|                      | 3rd      | Feb. 4, 1932     | May 26, 1932         | 113              | July 28, 1930. <sup>3</sup>                                                            |
|                      | 4th      | Oct. 6, 1932     | May 27, 1933         | 169 <sup>3</sup> | Aug. 18, 1930. <sup>4</sup>                                                            |
|                      | 5th      | Jan. 25, 1934    | July 3, 1934         | 160              |                                                                                        |
|                      | 6th      | Jan. 17, 1935    |                      |                  |                                                                                        |

<sup>1</sup> Including days (13) of adjournment from Mar. 3 to Mar. 15. <sup>2</sup> Not including days (54) of adjournment from Dec. 15 to Feb. 8. <sup>3</sup> Period of general elections. <sup>4</sup> Writs returnable. <sup>5</sup> Dissolution of Parliament. <sup>6</sup> Duration of Parliament in years, months and days. The life of a Parliament is counted from the date of return of election writs to the date of dissolution, both days inclusive. <sup>7</sup> The ordinary legal limit of duration for each Parliament is five years. <sup>8</sup> Not including days (65) of adjournment from Nov. 25 to Jan. 30.

A brief résumé of the history of parliamentary representation follows. Attention may be drawn to the growth in the number of members of both the Senate and the House of Commons since Confederation and to the greatly increased unit of representation in the Lower House.

## Subsection 3.—The Senate.

The British North America Act, 1867, provides in Sections 21 and 22 that "the Senate shall consist of seventy-two members, who shall be styled Senators. In relation to the constitution of the Senate, Canada shall be deemed to consist of three divisions—(1) Ontario; (2) Quebec; (3) The Maritime Provinces, Nova Scotia and New Brunswick; which three divisions shall be equally represented in the Senate as follows: Ontario by twenty-four senators; Quebec by twenty-four senators; and the Maritime Provinces by twenty-four senators, twelve thereof representing New Brunswick and twelve thereof representing Nova Scotia. In the case of Quebec, each of the twenty-four senators representing the province shall be appointed for one of the electoral divisions of Lower Canada, specified in Schedule A to Chapter I of the Consolidated Statutes of Canada". Further, under Section 147 of the same Act, it is provided that "in case of the admission to Confederation of Newfoundland or Prince Edward Island, . . . each shall be entitled to a representation in the Senate of four members". "Prince Edward Island, when admitted, shall be deemed to be comprised in the third of the three divisions into which Canada is divided by this Act" and on its admission "the representation of Nova Scotia and New Brunswick shall, as vacancies occur, be reduced from twelve to ten members respectively". In case of the admission of Newfoundland, the normal membership of the Senate of 72 members was to be increased to 76, while the maximum number of 78 (Sec. 28) was to be 82, Sec. 26 containing a provision for the appointment of three or six additional members in certain cases, to represent equally the three divisions of Canada.

By 33 Vict., c. 3, an Act to establish and provide for the government of the province of Manitoba, passed in 1870, the newly formed province was given representation of two members in the Senate, provision being made at the same time for increases in representation to three and four on increases of population, according to the decennial census, to 50,000 and 75,000 respectively. In the following year, British Columbia, on being admitted to the Union by an Imperial Order in Council of May 16, 1871, was given representation by three senators. Two years later, when Prince Edward Island was admitted to Confederation by an Imperial Order in Council of June 26, 1873, it was granted representation in the Senate of four members under the terms of the British North America Act, as cited above. Thus, in 1873, the seven provinces of Ontario, Quebec, Nova Scotia, New Brunswick, Manitoba, British Columbia and Prince Edward Island were represented by a total of 77 members in the Senate, their individual representation at the time being 24, 24, 10, 10, 2, 3 and 4 members respectively.

In 1882, following the Census of 1881 and an increase of population in Manitoba to 62,260 persons, the representation of this province was increased to three members under authority of the Manitoba Act, 1870. Later, by 50-51 Vict., c. 38, an Act of 1887, the representation of the Northwest Territories in the Senate was fixed at two members. A subsequent increase resulted from the growth of population in Manitoba to 152,506, as shown by the Census of 1891, the province being granted a fourth senator under the terms of the Manitoba Act of 1870. An Act passed in the session of 1903, 3. Edw. VII, c. 42, provided for an increase in the representation of the Northwest Territories from two to four members, bringing the total representation at this date to 83 members.

On the establishment of the provinces of Alberta and Saskatchewan out of the former Northwest Territories in 1905, under 4-5 Edw. VII, cc. 3 and 42, provision was made for their representation in the Senate by 4 members each, which might be increased by Parliament to 6 on the completion of the next decennial census. This change in representation brought the membership of the Upper Chamber to a total of 87.

In 1915, by an amendment to the British North America Act (5-6 Geo. V, c. 45), an important change was made with regard to the constitution of the Senate. The number of divisions provided for by Section 22 of the original Act was increased from three to four, the fourth comprising the four western provinces of Manitoba, Saskatchewan, Alberta and British Columbia. Each of these provinces was to be represented by 6 members under the Act, the division being thus represented by 24 members and placed on an equality with the others with respect to membership. A corresponding change was made in the number of additional senators provided for by the original British North America Act by substituting increases of four or eight members for the three or six cited in Section 26 of the Act of 1867. Normal representation, therefore, is at present fixed at 96, which number may be increased if necessary to 100 or to a maximum of 104.

The entry of Newfoundland to the Union is still provided for by the above Act, Subsection 6 of Sec. 1 of which sets out its representation as six members instead of the four granted by the Act of 1867. If Newfoundland were admitted to the Dominion, the normal number of senators would be 102 with a maximum of 110.



In Table 5 the growth of membership in the Senate is shown by divisions and provinces from 1867 to 1915, since when no change has taken place. The names and addresses of the senators from each province are given as at Mar. 1, 1935, in Table 6.

### 5.—Growth of Representation in the Senate, 1867-1934.

| Province.                   | 1867.     | 1870.     | 1871.     | 1873.     | 1882.     | 1887.     | 1892.     | 1903.     | 1905.     | 1915-1934. |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| (1) Ontario.....            | 24        | 24        | 24        | 24        | 24        | 24        | 24        | 24        | 24        | 24         |
| (2) Quebec.....             | 24        | 24        | 24        | 24        | 24        | 24        | 24        | 24        | 24        | 24         |
| (3) Maritime Provinces..... | 24        | 24        | 24        | 24        | 24        | 24        | 24        | 24        | 24        | 24         |
| Nova Scotia.....            | 12        | 12        | 12        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| New Brunswick.....          | 12        | 12        | 12        | 10        | 10        | 10        | 10        | 10        | 10        | 10         |
| Prince Edward Island.....   | -         | -         | -         | 4         | 4         | 4         | 4         | 4         | 4         | 4          |
| (4) Western Provinces.....  | -         | 2         | 5         | 5         | 6         | 8         | 9         | 11        | 15        | 24         |
| Manitoba.....               | -         | 2         | 2         | 2         | 3         | 3         | 4         | 4         | 4         | 6          |
| British Columbia.....       | -         | -         | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 6          |
| Saskatchewan.....           | -         | -         | -         | -         | -         | 2         | 2         | 4         | 4         | 6          |
| Alberta.....                | -         | -         | -         | -         | -         | -         | -         | -         | 4         | 6          |
| <b>Totals.....</b>          | <b>72</b> | <b>74</b> | <b>77</b> | <b>77</b> | <b>78</b> | <b>80</b> | <b>81</b> | <b>83</b> | <b>87</b> | <b>96</b>  |

### 6.—Representation in the Senate of Canada, by Provinces, as at Mar. 1, 1935.

| Name of Senator.                                         | Post Office Address. | Name of Senator.                                | Post Office Address.  |
|----------------------------------------------------------|----------------------|-------------------------------------------------|-----------------------|
| <b>Prince Edward Island—</b><br>(4 senators).            |                      | <b>Quebec—concluded.</b>                        |                       |
| McLean, John.....                                        | Souris.              | Webster, L. C.....                              | Montreal.             |
| Hughes, James J.....                                     | Souris.              | Béland, H. S., P.C.....                         | St. Joseph de Beauce. |
| MacArthur, Creelman.....                                 | Summerside.          | Raymond, Donat.....                             | Montreal.             |
| Sinclair, John E., P.C.....                              | Emerald.             | Lemieux, R., P.C.....                           | Montreal.             |
| <b>Nova Scotia—</b> (10 senators—<br>three vacancies).   |                      | Tobin, E. W.....                                | Bromptonville.        |
| McLennan, John S.....                                    | Sydney.              | Parent, G.....                                  | Quebec.               |
| Tanner, C. E.....                                        | Halifax.             | Prévost, J.-E.....                              | St. Jérôme.           |
| McCormick, John.....                                     | Sydney Mines.        | Ballantyne, C. C.....                           | Montreal.             |
| Martin, Peter.....                                       | Halifax.             | Rainville, J. H.....                            | St. Lambert.          |
| Logan, H. J.....                                         | Parrsboro.           | Brown, A. J.....                                | Montreal.             |
| Dennis, W. H.....                                        | Halifax.             | Fauteux, G. A., P.C.....                        | Outremont.            |
| MacDonald, J. A.....                                     | St. Peters.          | Morand, L.....                                  | Quebec.               |
| <b>New Brunswick—</b> (10 senators<br>—three vacancies). |                      | <b>Ontario—</b> (24 senators—two<br>vacancies). |                       |
| Bourque, T. J.....                                       | Richibucto.          | Gordon, Geo.....                                | North Bay.            |
| McDonald, J. A.....                                      | Shediac.             | Smith, E. D.....                                | Winona.               |
| Black, Frank B.....                                      | Sackville.           | Donnelly, J. J.....                             | Pinkerton.            |
| Turgeon, Onésiphore.....                                 | Bathurst.            | Lynch-Staunton, G.....                          | Hamilton.             |
| Robinson, C. W.....                                      | Moncton.             | White, G. V.....                                | Pembroke.             |
| Copp, A. B., P.C.....                                    | Sackville.           | Macdonell, A. H., C.M.G.....                    | Toronto.              |
| Foster, W. E., P.C.....                                  | Saint John.          | Hardy, A. C., P.C.....                          | Brockville.           |
| <b>Quebec—</b> (24 senators—three<br>vacancies).         |                      | Aylesworth, Sir. A. B., P.C.....                | Toronto.              |
| Dandurand, R., P.C.....                                  | Montreal.            | Lewis, John.....                                | Toronto.              |
| Casgrain, J. P. B.....                                   | Montreal.            | Murphy, Chas., P.C.....                         | Ottawa.               |
| Wilson, J. M.....                                        | Montreal.            | Graham, Rt. Hon. George P.,<br>P.C.....         | Brockville.           |
| Pope, Rufus H.....                                       | Cookshire.           | McGuire, William H.....                         | Toronto.              |
| Beaubien, C. P.....                                      | Montreal.            | Spence, Jas. H.....                             | Toronto.              |
| L'Espérance, D. O.....                                   | Quebec.              | Little, Edgar S.....                            | London.               |
| White, R. S.....                                         | Montreal.            | Lacasse, Gustave.....                           | Tecumseh.             |
| Blondin, P. E., P.C.....                                 | Montreal.            | Horsey, H. H.....                               | Cressy.               |
| Chapais, Thomas.....                                     | Quebec.              | Wilson, Cairine R.....                          | Ottawa.               |
|                                                          |                      | Murdoch, J., P.C.....                           | Ottawa.               |
|                                                          |                      | Meighen, Rt. Hon. A., P.C.....                  | Toronto.              |
|                                                          |                      | Hocken, H. C.....                               | Toronto.              |
|                                                          |                      | Fripp, A. E.....                                | Ottawa.               |
|                                                          |                      | Coté, L.....                                    | Ottawa.               |

**6.—Representation in the Senate of Canada, by Provinces, as at Mar. 1, 1935—con.**

| Name of Senator.                           | Post Office Address. | Name of Senator.                       | Post Office Address. |
|--------------------------------------------|----------------------|----------------------------------------|----------------------|
| <b>Manitoba</b> —(6 senators—one vacancy). |                      | <b>Alberta</b> —(6 senators).          |                      |
| Sharpe, W. H.                              | Manitou.             | Michener, Edward                       | Red Deer.            |
| McMeans, L.                                | Winnipeg.            | Harmer, Wm. J.                         | Edmonton.            |
| Bénard, Aimé.                              | Winnipeg.            | Griesbach, W. A., C.B., C.M.G.         | Edmonton.            |
| Schaffner, F. L.                           | Boissevain.          | Buchanan, W. A.                        | Lethbridge.          |
| Molloy, J. P.                              | Morris.              | Riley, Daniel E.                       | High River.          |
|                                            |                      | Burns, P.                              | Calgary.             |
| <b>Saskatchewan</b> —(6 senators).         |                      | <b>British Columbia</b> —(6 senators). |                      |
| Laird, H. W.                               | Regina.              | Planta, A. E.                          | Nanaimo.             |
| Calder, J. A., P.C.                        | Regina.              | Barnard, G. H.                         | Victoria.            |
| Gillis, A. B.                              | Whitewood.           | Taylor, J. D.                          | New Westminster.     |
| Marcotte, A., K.C.                         | Ponteix.             | Green, R. F.                           | Victoria.            |
| Horner, R. B.                              | Blaine Lake.         | King, J. H., P.C.                      | Vancouver.           |
| Aseltine, W. M.                            | Rosetown.            | McRae, A. D., C.B.                     | Vancouver.           |

**Subsection 4.—The House of Commons.**

In Section 37 of the original British North America Act of 1867 (30 Vict., c. 3), it was provided that "The House of Commons shall . . . consist of one hundred and eighty-one members, of whom eighty-two shall be elected for Ontario, sixty-five for Quebec, nineteen for Nova Scotia, and fifteen for New Brunswick". Further, under Section 51, it was enacted that after the completion of the Census of 1871 and of each subsequent decennial census, the representation of the four provinces should be readjusted by such authority, in such manner, and from such time, as the Parliament of Canada provided, subject to and according to the following rules:—

- "(1) Quebec shall have the fixed number of Sixty-five Members;
- "(2) There shall be assigned to each of the other Provinces such a Number of Members as will bear the same Proportion to the Number of its Population (ascertained at such Census) as the Number Sixty-five bears to the Number of the Population of Quebec (so ascertained);
- "(3) In the Computation of the Number of Members for a Province a fractional Part not exceeding One Half of the whole Number requisite for entitling the Province to a Member shall be disregarded; but a fractional Part exceeding One Half of that Number shall be equivalent to the whole Number;
- "(4) On any such Readjustment the Number of Members for a Province shall not be reduced unless the Proportion which the Number of the Population of the Province bore to the Number of the aggregate Population of Canada at the then last preceding Re-adjustment of the Number of Members for the Province is ascertained at the then latest Census to be diminished by One Twentieth Part or upwards;
- "(5) Such Readjustment shall not take effect until the Termination of the then existing Parliament".

Again, in Section 52, it was enacted that "the number of members of the House of Commons may be from time to time increased by the Parliament of Canada, provided the proportionate representation of the Provinces prescribed by this Act is not thereby disturbed".

Later on, by the British North America Act of 1886 (49-50 Vict., c. 35), provision was made in Section 1 that "the Parliament of Canada may from time to time make provision for the representation in the Senate and House of Commons of Canada, or in either of them, of any territories which for the time being form part of the Dominion of Canada, but are not included in any province thereof".

Again in 1915, an amendment to the British North America Act (5-6 Geo. V, c. 45) was passed by the Imperial Parliament, providing that "notwithstanding anything in the said Act, a province shall always be entitled to a number of members in the House of Commons not less than the number of senators representing such province".

**Readjustments in Representation.**—As set out in the above-mentioned provisions of the British North America Act, the first Dominion Parliament of 1867 consisted at its commencement of 181 members, 82 for Ontario, 65 for Quebec, 19 for Nova Scotia and 15 for New Brunswick. To this number were added, under the Manitoba Act of 1870 (33 Vict., c. 3), 4 members to represent the newly created province of Manitoba; also, according to the agreement under which British Columbia entered Confederation, ratified by Imperial Order in Council of May 16, 1871, 6 members were added to represent the new province, making a total of 191 members at the end of the first Parliament of Canada.

Arising out of the first census of the Dominion in 1871, a readjustment of representation took place in 1872 (c. 15 of 1872), increasing the representation of Ontario from 82 to 88, of Nova Scotia from 19 to 21, and of New Brunswick from 15 to 16 members, the 9 additional members bringing the total number of representatives up to 200. To these were added in 1874, as a result of the agreement under which Prince Edward Island entered Confederation (ratified by Imperial Order in Council of June 26, 1873), 6 members representing that province—bringing the membership of the House of Commons to 206.

Results of the second census, that of 1881, necessitated the passage of a new Representation Act (45 Vict., c. 3), increasing the representation of Ontario from 88 to 92 and that of Manitoba from 4 to 5, thus bringing the membership of the House of Commons to 211 members. To these were added, under the provisions of 49 Vict., c. 24, passed in 1886, 4 members for the Northwest Territories (2 for the then provisional district of Assiniboia and 1 each for the then provisional districts of Alberta and Saskatchewan), bringing the total membership to 215.

The third census, of 1891, was followed by another readjustment of representation, reducing the representation of Nova Scotia from 21 to 20, of New Brunswick from 16 to 14, of Prince Edward Island from 6 to 5, and increasing the representation of Manitoba from 5 to 7, the representation of the other provinces remaining as before. The net result was a reduction in the number of members of the House from 215 to 213.

The fourth census, of 1901, resulted in a readjustment in 1903, reducing the representation of Ontario from 92 to 86, of Nova Scotia from 20 to 18, of New Brunswick from 14 to 13, of Prince Edward Island from 5 to 4. On the other hand, the representation of Manitoba was increased from 7 to 10, of British Columbia from 6 to 7, of the Northwest Territories from 4 to 10. By Chapter 37 of the Statutes of 1902, a member was added for the Yukon Territory, so that the net effect of the changes was to keep the membership at 214 in the early years of the present century. The extremely rapid growth of the Northwest Territories, however, led to their division and the admission to Confederation in 1905 of the provinces of Alberta and Saskatchewan. In the Acts admitting them—the Alberta Act (4-5 Edw. VII,



c. 3) and the Saskatchewan Act (4-5 Edw. VII, c. 42)—it was provided that their representation should be readjusted on the basis of the results of the Quinquennial Census of 1906. The Representation Act of 1907, implementing this pledge, increased the representation of Saskatchewan from 6 to 10 and of Alberta from 4 to 7 members, thus raising the total membership of the House of Commons to 221.

The Census of 1911, with its very large but very unevenly distributed increase of population, led to considerable changes in representation, enacted by the Representation Act of 1914. The representation of Ontario was reduced from 86 to 82, of Nova Scotia from 18 to 16, of New Brunswick from 13 to 11, of Prince Edward Island from 4 to 3. On the other hand, the representation of Manitoba was raised from 10 to 15, of Saskatchewan from 10 to 16, of Alberta from 7 to 12 and of British Columbia from 7 to 13. The net result was an increase of 13 members in the total membership of the House of Commons, bringing the figure to 234. However, in the following session the amendment to the British North America Act, already referred to, resulted in the retention by Prince Edward Island of her fourth member (since she had 4 senators). (See also 5 Geo. V, c. 19.) The total membership, therefore, of the House of Commons in the thirteenth and fourteenth Parliaments (elected in 1917 and 1921 respectively) was 235.

As a result of the smaller increase of population shown by the Census of 1921, the changes in representation were less far-reaching. Nova Scotia lost 2 members and the West gained 12, 2 of these being added to Manitoba, 5 to Saskatchewan, 4 to Alberta and 1 to British Columbia. The representation of the remaining four provinces was unchanged. Prince Edward Island retained its 4 members because of the provisions of the British North America Act of 1915, to the effect that the members of the House of Commons returned by a province shall never be fewer than its senators. Ontario, again, retained its 82 members because under Sub-section 4 of Section 51 of the British North America Act (quoted p. 73), the proportion which its population bore to the aggregate population of the Dominion had not declined by one-twentieth. Further, by the Quebec Boundaries Extension Act of 1912, it had been stipulated that the population of the added area (Ungava) should not be included for the purpose of determining the unit of representation, so that the 1921 population of Quebec, within its 1911 boundaries, *viz.*, 2,358,412, divided by the fixed number of 65 seats for that province, became the new unit of representation, 36,283.

The number of representatives of each province elected at each of the seventeen general elections since Confederation is given in Table 7.

**7.—Representation in the House of Commons as at Dominion General Elections 1867-1930.**

| Province.          | 1867.      | 1872.      | 1874.      | 1878.      | 1882.      | 1887.      | 1891.      | 1896.      | 1900.      | 1904.      | 1908.      | 1911.      | 1917.      | 1921.      | 1925. <sup>1</sup> |
|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------------|
| Ontario.....       | 82         | 88         | 88         | 88         | 92         | 92         | 92         | 92         | 92         | 86         | 86         | 86         | 82         | 82         | 82                 |
| Quebec.....        | 65         | 65         | 65         | 65         | 65         | 65         | 65         | 65         | 65         | 65         | 65         | 65         | 65         | 65         | 65                 |
| Nova Scotia.....   | 19         | 21         | 21         | 21         | 21         | 21         | 21         | 20         | 20         | 18         | 18         | 18         | 16         | 16         | 14                 |
| New Brunswick....  | 15         | 16         | 16         | 16         | 16         | 16         | 16         | 14         | 14         | 13         | 13         | 13         | 11         | 11         | 11                 |
| Manitoba.....      | —          | 4          | 4          | 4          | 5          | 5          | 5          | 7          | 7          | 10         | 10         | 10         | 15         | 15         | 17                 |
| British Columbia.. | —          | 6          | 6          | 6          | 6          | 6          | 6          | 6          | 7          | 7          | 7          | 7          | 13         | 13         | 14                 |
| P. E. Island.....  | —          | —          | 6          | 6          | 6          | 6          | 6          | 5          | 5          | 4          | 4          | 4          | 4          | 4          | 4                  |
| Saskatchewan.....  | —          | —          | —          | —          | —          | 4          | 4          | 4          | 4          | 10         | 10         | 10         | 16         | 16         | 21                 |
| Alberta.....       | —          | —          | —          | —          | —          | —          | —          | —          | —          | 7          | 7          | 7          | 12         | 12         | 16                 |
| Yukon.....         | —          | —          | —          | —          | —          | —          | —          | —          | —          | 1          | 1          | 1          | 1          | 1          | 1                  |
| <b>Totals.....</b> | <b>181</b> | <b>200</b> | <b>206</b> | <b>206</b> | <b>211</b> | <b>215</b> | <b>215</b> | <b>213</b> | <b>213</b> | <b>214</b> | <b>221</b> | <b>221</b> | <b>235</b> | <b>235</b> | <b>245</b>         |

<sup>1</sup>The representation at the general elections of 1926 and 1930 was the same as in 1925.

**The Unit of Representation.**—While the number of members of the House of Commons has been growing fairly steadily since Confederation, the unit of representation—one-sixty-fifth of the population of Quebec within its 1911 boundaries—has also been increased after each census in consequence of the growth of the population of Quebec. The units of representation, as determined by the decennial censuses taken since Confederation, are as follows: 1871, 18,331 persons; 1881, 20,908; 1891, 22,901; 1901, 25,368; 1911, 30,819; 1921, 36,283; 1931, 44,186, being one-sixty-fifth of the population of Quebec exclusive of Ungava.

**The 1931 Redistribution Problem.**—The population of Quebec in 1931, exclusive of the population (2,177) of the territory added to Quebec by the Boundaries Extension Act of 1912, was 2,872,078, which, divided by 65, gives a unit of representation of 44,186. The quotient obtained by dividing the population of each province as shown at the date of the census by 44,186 indicates (except where Subsection 4 of Section 51 of the British North America Act and the Amending Act of 1915 apply) the number of members to which each province is entitled. These numbers as determined by the Census of 1931 and the two preceding censuses are shown in Table 8.

**8.—Representation of the Provinces and Territories of Canada in the House of Commons, as Determined by the Censuses of 1931, 1921 and 1911.**

| Province.                               | Census of 1931.    |                                  |                 | Census of 1921.    |                                  |                 | Census of 1911.    |                                  |                 |
|-----------------------------------------|--------------------|----------------------------------|-----------------|--------------------|----------------------------------|-----------------|--------------------|----------------------------------|-----------------|
|                                         | Population.        | Quotient based on Unit. (44,186) | Representation. | Population.        | Quotient Based on Unit. (36,283) | Representation. | Population.        | Quotient based on Unit. (30,819) | Representation. |
| P.E.I.....                              | 88,038             | 1.99                             | 4               | 88,615             | 2.44                             | 4               | 93,728             | 3.04                             | 4               |
| N.S.....                                | 512,846            | 11.61                            | 12              | 523,837            | 14.44                            | 14              | 402,338            | 15.98                            | 16              |
| N.B.....                                | 408,219            | 9.24                             | 10              | 387,876            | 10.69                            | 11              | 351,889            | 11.42                            | 11              |
| Ont.....                                | 3,431,683          | 77.66                            | 82              | 2,933,662          | 80.86                            | 82              | 2,527,292          | 82.00                            | 82              |
| Man.....                                | 700,139            | 15.85                            | 17              | 610,118            | 16.82                            | 17              | 461,394            | 14.97                            | 15              |
| Sask.....                               | 921,785            | 20.86                            | 21              | 757,510            | 20.88                            | 21              | 492,432            | 15.98                            | 16              |
| Alta.....                               | 731,605            | 16.56                            | 17              | 588,454            | 16.22                            | 16              | 374,295            | 12.41                            | 12              |
| B.C.....                                | 694,263            | 15.71                            | 16              | 524,582            | 14.46                            | 14              | 392,480            | 12.74                            | 13              |
| Quebec (with-<br>out New<br>Quebec).... | 2,872,078          | 65.00                            | 65              | 2,358,412          | 65.00                            | 65              | 2,003,232          | 65.00                            | 65              |
| <b>Totals</b> .....                     | <b>10,360,656</b>  | <b>-</b>                         | <b>244</b>      | <b>8,773,066</b>   | <b>-</b>                         | <b>244</b>      | <b>7,189,080</b>   | <b>-</b>                         | <b>231</b>      |
| Quebec (New<br>Quebec)....              | 2,177 <sup>1</sup> | -                                | -               | 2,253 <sup>1</sup> | -                                | -               | 2,544 <sup>1</sup> | -                                | -               |
| Yukon.....                              | 4,230              | -                                | 1               | 4,157              | -                                | 1               | 8,512              | -                                | 1               |
| N.W.T.....                              | 9,723              | -                                | -               | 7,988              | -                                | -               | 6,507              | -                                | -               |
| R.C. Navy...                            | -                  | -                                | -               | 485                | -                                | -               | -                  | -                                | -               |
| <b>Canada</b> .....                     | <b>10,376,786</b>  | <b>-</b>                         | <b>245</b>      | <b>8,787,949</b>   | <b>-</b>                         | <b>245</b>      | <b>7,206,643</b>   | <b>-</b>                         | <b>235</b>      |

<sup>1</sup> Represents the population in the area added to Quebec by the Quebec Boundaries Extension Act, 1912, the population of which by Sae. 2, ss. "A" of said Act, is to be excluded from the population of the province in ascertaining the unit of representation.

The application of the provisions of Subsection 4 of Section 51 of the British North America Act (quoted on p. 73) to Prince Edward Island, Nova Scotia,

New Brunswick, Ontario, Manitoba (the provinces in which a decrease in the rate of growth of population as compared with the rate of Canada as a whole, has taken place), is shown in the following statement:—

| Province.                 | Proportion which Population of each Province Bears to the Total Population in Canada. |           | Decrease in Proportion from 1921-1931. | Ratio of Decrease in Proportion from 1921 to 1931 to Proportion in 1921. | Decrease greater than, equal to or less than One-twentieth of Proportion in 1931. |
|---------------------------|---------------------------------------------------------------------------------------|-----------|----------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                           | 1921.                                                                                 | 1931.     |                                        |                                                                          |                                                                                   |
| Prince Edward Island..... | ·01008426                                                                             | ·00848412 | ·00160014                              | ·1587                                                                    | greater                                                                           |
| Nova Scotia.....          | ·05961197                                                                             | ·04942243 | ·01018954                              | ·1709                                                                    | greater                                                                           |
| New Brunswick.....        | ·04413965                                                                             | ·03933963 | ·00480002                              | ·1087                                                                    | greater                                                                           |
| Ontario.....              | ·33384627                                                                             | ·33070769 | ·00313858                              | ·0094                                                                    | less                                                                              |
| Manitoba.....             | ·06943053                                                                             | ·06747166 | ·00195887                              | ·0282                                                                    | less                                                                              |

The above figures show that no reduction should take place in the representation of Ontario or Manitoba, since the proportion which the population of each of these provinces bore to the number of the aggregate population of Canada at the readjustment of the number of members for the provinces, based on the Census of 1921, was ascertained at the Census of 1931 to be diminished by less than one-twentieth part. The situation as regards the other three provinces and Yukon is as follows:—

*Nova Scotia.*—The proportion for Nova Scotia having diminished by more than one-twentieth part, the provisions of Subsection 4 of Section 51 do not apply and the representation of Nova Scotia should be reduced, in accordance with the provisions of Section 51, Subsections 2 and 3 of the Act, by two members.

*Prince Edward Island.*—Prince Edward Island would only have two members on the strict basis of population but its representation remains unchanged at 4 under the B.N.A. Act of 1915 referred to above.

*New Brunswick.*—The representation of New Brunswick if fixed by the unit of representation (44,186) would be reduced from 11 to 9; but as the B.N.A. Act of 1915 provided that "a province shall always be entitled to a number of members in the House of Commons, not less than the number of senators representing such province", the representation of New Brunswick will be 10 instead of 9, corresponding with the number of senators from that province.

*Yukon.*—The representation of Yukon is not determined by the B.N.A. Act, but is within the competence of Parliament to decide. Pursuant to the Representation Act 1933, it will continue to be represented.

An Act to readjust the representation in the House of Commons (23-24 George V, Chapter 54) and cited as "The Representation Act, 1933" was assented to on May 27, 1933. The changes in representation made by the Act are exactly as outlined above, the provisions being:—

The House of Commons shall consist of two hundred and forty-five members, of whom eighty-two shall be elected for the province of Ontario, sixty-five for the province of Quebec, twelve for the province of Nova Scotia, ten for the province of New Brunswick, seventeen for the province of Manitoba, sixteen for the province of British Columbia, four for the province of Prince Edward Island, twenty-one for the province of Saskatchewan, seventeen for the province of Alberta, and one for Yukon Territory.

### Constituencies and Representatives in the Seventeenth Parliament.—

A complete list of the constituencies, with their 1931 populations, the voters on the list and votes polled at the general election of July 28, 1930, together with the



names and addresses of those then elected to the House of Commons of the seventeenth Parliament of Canada, will be found in Table 9. Changes occurring at subsequent by-elections to Mar. 5, 1935, are indicated in the footnotes.

**9.—Populations of Electoral Districts, Voters on Lists and Votes Polled, Names and Addresses of Members of the House of Commons, as Elected at the Seventeenth General Election.**

| Province and Electoral District. | Population, 1931. | Voters on List. | Votes Polled.       | Name of Member.                   | P.O. Address.                  |
|----------------------------------|-------------------|-----------------|---------------------|-----------------------------------|--------------------------------|
| <b>Prince Edward Island—</b>     |                   |                 |                     |                                   |                                |
| (4 members).....                 | 88,038            | 46,985          | 59,519              |                                   |                                |
| Kings.....                       | 19,147            | 10,253          | 9,159               | Macdonald, Hon. J. A.             | Cardigan, P.E.I.               |
| Prince.....                      | 31,500            | 16,350          | 14,584              | Maclean, A. E.                    | Summerside, P.E.I.             |
| Queens.....                      | 37,391            | 20,382          | 35,776 <sup>1</sup> | McLure, W. C. S.                  | Charlottetown, P.E.I.          |
|                                  |                   |                 |                     | (Myers, J. H.)                    | Hampton, P.E.I.                |
| <b>Nova Scotia—</b>              |                   |                 |                     |                                   |                                |
| (14 members).....                | 512,846           | 275,762         | 268,727             |                                   |                                |
| Antigonish-Guysborough..         | 25,516            | 14,877          | 12,215              | Duff, W.                          | Lunenburg, N.S.                |
| Cape Breton North—               |                   |                 |                     |                                   |                                |
| Victoria.....                    | 29,116            | 14,646          | 12,315              | Johnstone, L. W.                  | Sydney Mines, N.S.             |
| Cape Breton South.....           | 66,999            | 30,961          | 25,265              | MacDonald, F.                     | Sydney, N.S.                   |
| Colchester.....                  | 25,051            | 13,656          | 11,918              | Urquhart, M. L.                   | Truro, N.S.                    |
| Cumberland.....                  | 36,366            | 19,738          | 16,328              | Smith, R. K.                      | Amherst, N.S.                  |
| Digby-Annapolis.....             | 34,650            | 19,934          | 16,729              | Short, H. B.                      | Digby, N.S.                    |
| Halifax City and County..        | 100,204           | 53,154          | 81,662 <sup>1</sup> | (Black, W. A. <sup>5</sup> )      | Halifax, N.S.                  |
|                                  |                   |                 |                     | (Quinn, F. P.)                    | Halifax, N.S.                  |
| Hants-Kings.....                 | 43,750            | 24,171          | 21,125              | Isley, J. L.                      | Kentville, N.S.                |
| Inverness.....                   | 21,055            | 10,847          | 9,656               | MacDougall, I. D.                 | Port Hood, N.S.                |
| Pictou.....                      | 39,018            | 21,783          | 18,933              | Cantley, T.                       | New Glasgow, N.S.              |
| Queens-Lunenburg.....            | 42,286            | 24,713          | 19,969              | Ernst, W. G.                      | Bridgewater, N.S.              |
| Richmond-West Cp. Breton         | 15,411            | 9,608           | 7,542               | MacDonald, J. A. <sup>2</sup>     | St. Peters, N.S.               |
| Shelburne-Yarmouth.....          | 33,424            | 17,674          | 15,070              | Ralston, Hon. J. L.               | Yarmouth, N.S.                 |
| <b>New Brunswick—</b>            |                   |                 |                     |                                   |                                |
| (11 members).....                | 408,219           | 207,006         | 186,277             |                                   |                                |
| Charlotte.....                   | 21,337            | 12,627          | 9,757               | Ganong, A. D.                     | St. Stephen, N.B.              |
| Gloucester.....                  | 41,914            | 18,204          | 15,276              | Veniot, Hon. P. J.                | Bathurst, N.B.                 |
| Kent.....                        | 23,478            | 11,019          | 9,439               | Arsenault, T.                     | Richibucto, N.B.               |
| Northumberland.....              | 34,124            | 16,056          | 13,804              | McDade, G. M.                     | Chatham, N.B.                  |
| Restigouche-Madawaska..          | 54,386            | 23,932          | 19,771              | Cormier, M. D. <sup>4</sup>       | Edmundston, N.B.               |
| Royal.....                       | 31,026            | 17,469          | 14,550              | Jones, Hon. G. B. <sup>3</sup>    | Apohaqui, N.B.                 |
| Saint John-Albert.....           | 69,292            | 37,067          | 50,121 <sup>1</sup> | (MacLaren, Hon. M. <sup>6</sup> ) | Saint John, N.B.               |
|                                  |                   |                 |                     | (Bell, T.)                        | Saint John, N.B.               |
| Victoria-Carleton.....           | 35,703            | 18,635          | 14,480              | Smith, B. F.                      | East Florenceville, N.B.       |
| Westmorland.....                 | 57,506            | 29,668          | 24,286              | Price, O. B.                      | Moncton, N.B.                  |
| York-Sunbury.....                | 39,453            | 22,329          | 14,793              | Hanson, R. B.                     | Fredericton, N.B.              |
| <b>Quebec—</b>                   |                   |                 |                     |                                   |                                |
| (65 members).....                | 2,874,255         | 1,351,585       | 1,029,480           |                                   |                                |
| Argenteuil.....                  | 78,976            | 9,649           | 8,703               | Perley, Rt. Hon. Sir Geo. H.      | Ottawa, Ont.                   |
| Bagot.....                       | 16,914            | 7,917           | 7,174               | Dumaine, C.                       | Upton, Que.                    |
| Beauce.....                      | 57,544            | 23,745          | 18,784              | Lacroix, E.                       | St-Georges-de-Beauce, Que.     |
| Beauharnois.....                 | 25,163            | 11,238          | 9,797               | Raymond, M.                       | Outremont, Que.                |
| Bellechasse.....                 | 21,296            | 9,308           | 7,617               | Boulanger, O. L.                  | Quebec, Que.                   |
| Berthier-Maskinongé.....         | 35,545            | 17,546          | 14,132              | Barrette, J. A.                   | St.-Barthélemi, Que.           |
| Bonaventure.....                 | 32,432            | 14,051          | 11,822              | Marcel, Hon. C.                   | Ottawa, Ont.                   |
| Brome-Missisquoi.....            | 32,089            | 16,916          | 14,732              | Pickel, F. H.                     | Sweetsburg, Que.               |
| Chambly-Verchères.....           | 39,404            | 20,267          | 17,014              | Duranleau, Hon. A.                | Montreal, Que.                 |
| Champlain.....                   | 50,176            | 22,460          | 19,199              | Baribeau, J. L.                   | St-Geneviève-de-Batiscan, Que. |
| Charlevoix-Saguenay.....         | 54,999            | 23,028          | 19,063              | Casgrain, P. F.                   | Westmount, Que.                |
| Châteauguay-Huntingdon..         | 25,470            | 13,212          | 11,446              | Moore, J. C.                      | Huntingdon, Que.               |
| Chicoutimi.....                  | 55,724            | 23,622          | 20,539              | Dubuc, J. E. A.                   | Chicoutimi, Que.               |
| Compton.....                     | 31,858            | 15,263          | 13,153              | Gobeil, S.                        | La Patrie, Que.                |
| Dorchester.....                  | 31,693            | 13,270          | 11,266              | Gagnon, O.                        | Quebec, Que.                   |
| Drummond-Arthabaska.....         | 53,338            | 23,166          | 19,123              | Girouard, W.                      | Arthabaska, Que.               |
| Gaspé.....                       | 45,617            | 19,456          | 16,327              | Brasset, M.                       | Percé, Que.                    |

<sup>1</sup>Each voter could vote for two candidates. <sup>2</sup>Mr. J. A. MacDonald having accepted an office of emolument under the Crown, Hon. E. N. Rhodes was elected by acclamation Sept. 2, 1930. <sup>3</sup>Hon. G. B. Jones resigned his seat, April 12, 1932, and was re-elected, June 27, 1932. <sup>4</sup>Mr. Cormier died Jan. 14, 1933, and Mr. Joseph E. Michaud was elected Oct. 23, 1933. <sup>5</sup>Hon. W. A. Black died Sept. 1, 1934. <sup>6</sup>The Hon. M. MacLaren vacated his seat on Feb. 7, 1935, on his appointment as Lieutenant-Governor of New Brunswick.

9.—Populations of Electoral Districts, Voters on Lists and Votes Polled, Names and Addresses of Members of the House of Commons, as Elected at the Seventeenth General Election—continued.

| Province and Electoral District. | Population, 1931. | Voters on List. | Votes Polled. | Name of Member.                     | P.O. Address.                  |
|----------------------------------|-------------------|-----------------|---------------|-------------------------------------|--------------------------------|
| <b>Quebec—concluded.</b>         |                   |                 |               |                                     |                                |
| Hull.....                        | 49,196            | 22,790          | 18,586        | Fournier, A.....                    | Hull, Que.                     |
| Joliette.....                    | 27,585            | 12,721          | 10,964        | Ferland, C. E.....                  | Joliette, Que.                 |
| Kamouraska.....                  | 24,085            | 10,790          | 8,713         | Bouchard, G.....                    | Ste-Anne-de-la-Pocatière, Que. |
| Labelle.....                     | 36,953            | 1               | 1             | Bourassa, H.....                    | Outremont, Que.                |
| Lake St. John.....               | 50,253            | 19,181          | 16,694        | Duguay, J. L.....                   | St-Joseph-d'Alma, Que.         |
| Laprairie-Napierville.....       | 21,091            | 9,152           | 8,345         | Dupuis, V.....                      | Laprairie, Que.                |
| L'Assomption-Montcalm.....       | 29,188            | 14,061          | 11,299        | Séguin, P. A.....                   | L'Assomption, Que.             |
| Laval-Two Mountains.....         | 30,434            | 13,733          | 12,345        | Sauvé, Hon. A.....                  | Saint-Eustache, Que.           |
| Lévis.....                       | 35,656            | 16,677          | 14,074        | Fortin, E.....                      | Lévis, Que.                    |
| L'Islet.....                     | 19,404            | 8,535           | 6,804         | Fafard, J. F.....                   | L'Islet, Que.                  |
| Lotbinière.....                  | 23,034            | 10,381          | 8,989         | Verville, J. A.....                 | St. Flavien, Que.              |
| Matane.....                      | 45,272            | 18,249          | 14,805        | LaRue, J. E. H.....                 | Amqui, Que.                    |
| Mégantic.....                    | 35,492            | 15,889          | 13,461        | Roberge, E.....                     | Laurierville, Que.             |
| Montmagny.....                   | 20,239            | 9,405           | 7,550         | Laverne, A. <sup>8</sup> .....      | Quebec, Que.                   |
| Nicolet.....                     | 28,673            | 13,680          | 11,487        | Dubois, L.....                      | Gentilly, Que.                 |
| Pontiac.....                     | 64,155            | 29,732          | 21,918        | Belec, C.....                       | Fort Coulonge, Que.            |
| Portneuf.....                    | 39,522            | 18,418          | 15,175        | Desrochers, J.....                  | St-Raymond, Que.               |
| Quebec-Montmorency.....          | 39,552            | 16,673          | 14,592        | Dorion, C. N.....                   | Courville, Que.                |
| Quebec East.....                 | 55,596            | 27,049          | 21,611        | Lapointe, Hon. E.....               | Ottawa, Ont.                   |
| Quebec South.....                | 36,235            | 19,820          | 14,881        | Power, C. G.....                    | Quebec, Que.                   |
| Quebec West.....                 | 52,309            | 23,891          | 20,101        | Dupré, Hon. M.....                  | Quebec, Que.                   |
| Richelieu.....                   | 21,483            | 10,608          | 8,938         | Cardin, Hon. P. J. A.....           | Sorel, Que.                    |
| Richmond-Wolfe.....              | 41,867            | 19,391          | 16,998        | Lafêche, J. F.....                  | Windors Mills, Que.            |
| Rimouski.....                    | 33,151            | 13,564          | 11,043        | Pisot, Sir E.....                   | Rimouski, Que.                 |
| St-Hyacinthe-Rouville.....       | 39,630            | 20,492          | 16,187        | Fontaine, J. T. A.....              | St-Hyacinthe, Que.             |
| St. Johns-Iberville.....         | 27,051            | 14,346          | 12,099        | Rhéaume, M.....                     | St. Johns, Que.                |
| Shefford.....                    | 23,262            | 14,013          | 12,648        | Tétreault, J. E.....                | Granby, Que.                   |
| Sherbrooke.....                  | 37,386            | 19,865          | 16,700        | Howard, C. B.....                   | Sherbrooke, Que.               |
| Stanstead.....                   | 25,118            | 12,998          | 11,351        | Hackett, J. T.....                  | Stanstead, Que.                |
| Témiscouata.....                 | 50,163            | 20,706          | 17,584        | Pouliot, J. E.....                  | Rivière-du-Loup, Que.          |
| Terrebonne.....                  | 38,611            | 18,392          | 15,517        | Parent, L. E.....                   | St-Agathe-des-Monts, Que.      |
| Three Rivers-St-Maurice.....     | 69,095            | 32,978          | 26,110        | Bettez, A. <sup>2</sup> .....       | Three Rivers, Que.             |
| Vaudreuil-Soulanges.....         | 21,114            | 10,429          | 8,500         | Thauvette, J.....                   | Vaudreuil, Que.                |
| Wright.....                      | 27,107            | 12,927          | 11,020        | Perras, F. W.....                   | Gracefield, Que.               |
| Yamaska.....                     | 16,820            | 7,926           | 7,068         | Boucher, A. <sup>4</sup> .....      | Pierreville, Que.              |
| <b>Montreal Island—</b>          |                   |                 |               |                                     |                                |
| (13 members).....                | 1,003,868         | 508,062         | 325,495       |                                     |                                |
| Cartier.....                     | 48,064            | 25,442          | 12,262        | Jacobs, S. W.....                   | Montreal, Que.                 |
| Hochelaga.....                   | 87,096            | 43,728          | 28,652        | St-Père, E. C.....                  | Montreal, Que.                 |
| Jacques Cartier.....             | 130,776           | 61,453          | 44,801        | Laurin, J. G. P.....                | Montreal, Que.                 |
| Laurier-Outremont.....           | 88,579            | 45,968          | 27,310        | Mercier, J. A.....                  | Montreal, Que.                 |
| Maisonneuve.....                 | 116,311           | 50,593          | 34,196        | Robitaille, C. <sup>3</sup> .....   | Montreal, Que.                 |
| Mount Royal.....                 | 93,035            | 48,515          | 26,590        | White, R. S.....                    | Montreal, Que.                 |
| St. Ann.....                     | 60,696            | 31,256          | 22,770        | Sullivan, J. A.....                 | Montreal, Que.                 |
| St. Antoine.....                 | 36,033            | 19,956          | 12,639        | Bell, L. G.....                     | Montreal, Que.                 |
| St. Denis.....                   | 140,940           | 69,249          | 45,396        | Denis, J. A. <sup>6</sup> .....     | Montreal, Que.                 |
| St. Henri.....                   | 44,019            | 23,718          | 17,722        | Mercier, P.....                     | Montreal, Que.                 |
| St. James.....                   | 54,903            | 32,776          | 19,721        | Rinfret, Hon. F.....                | Montreal, Que.                 |
| St. Lawrence-St. George.....     | 37,861            | 19,646          | 10,479        | Cahan, Hon. C. H.....               | Montreal, Que.                 |
| St. Mary.....                    | 65,555            | 35,762          | 22,957        | Deslauriers, H.....                 | Montreal, Que.                 |
| <b>Ontario—</b>                  |                   |                 |               |                                     |                                |
| (82 members).....                | 3,431,683         | 1,894,624       | 1,364,960     |                                     |                                |
| Algoma East.....                 | 37,455            | 17,879          | 14,251        | Nicholson, G. B. <sup>7</sup> ..... | Chapleau, Ont.                 |
| Algoma West.....                 | 38,425            | 17,893          | 13,702        | Simpson, T. E.....                  | Sault Ste. Marie, Ont.         |
| Brant.....                       | 21,202            | 11,538          | 9,497         | Smoke, F.....                       | Paris, Ont.                    |
| Brantford City.....              | 32,274            | 19,018          | 15,309        | Ryerson, R. E.....                  | Brantford, Ont.                |
| Bruce North.....                 | 20,466            | 12,554          | 11,185        | Malcolm, Hon. J.....                | Kincardine, Ont.               |
| Bruce South.....                 | 21,820            | 13,339          | 10,602        | Hall, W. A.....                     | Walkerton, Ont.                |
| Carleton.....                    | 38,619            | 20,493          | 16,793        | Garland, W. F.....                  | Ottawa, Ont.                   |
| Dufferin-Simcoe.....             | 32,763            | 20,372          | 13,790        | Rowe, W. E.....                     | Newton Robinson, Ont.          |
| Durham.....                      | 25,782            | 16,338          | 12,068        | Bowen, F. W.....                    | Newcastle, Ont.                |
| Elgin West.....                  | 34,068            | 21,896          | 18,680        | Hepburn, M. F. <sup>5</sup> .....   | St. Thomas, Ont.               |

<sup>1</sup> Acclamation. <sup>2</sup> Mr. Bettez died Jan. 4, 1931, and Mr. Charles Bourgeois was elected Aug. 10, 1931. <sup>3</sup> Mr. Robitaille died Jan. 16, 1932, and Mr. Joseph Jean was elected June 27, 1932. <sup>4</sup> Election declared void by the Supreme Court of Canada, Dec. 23, 1932. Mr. Boucher re-elected Oct. 23, 1933. <sup>5</sup> Mr. Hepburn resigned June 8, 1934, and Mr. W. H. Mills was elected Sept. 24, 1934. <sup>6</sup> Mr. Denis died Oct. 1, 1934. <sup>7</sup> Mr. Nicholson died Jan. 1, 1935. <sup>8</sup> Mr. Laverne died Mar. 5, 1935.

**9.—Populations of Electoral Districts, Voters on Lists and Votes Polled, Names and Addresses of Members of the House of Commons, as Elected at the Seventeenth General Election—continued.**

| Province and Electoral District. | Population, 1931. | Voters on List. | Votes Polled.       | Name of Member.                       | P.O. Address.                    |
|----------------------------------|-------------------|-----------------|---------------------|---------------------------------------|----------------------------------|
| <b>Ontario—continued.</b>        |                   |                 |                     |                                       |                                  |
| Essex East.....                  | 42,976            | 21,097          | 16,453              | Morand, Hon. R. D.                    | Windsor, Ont.                    |
| Essex South.....                 | 35,044            | 17,996          | 14,609              | Gott, E. J.                           | Amherstburg, Ont.                |
| Essex West.....                  | 83,808            | 43,231          | 27,993              | Robinson, S. C.                       | Walkerville, Ont.                |
| Fort William.....                | 36,040            | 14,412          | 10,861              | Manion, Hon. R. J.                    | Fort William, Ont.               |
| Frontenac-Addington.....         | 29,434            | 17,058          | 11,537              | Spankie, W. <sup>5</sup>              | Wolfe Island, Ont.               |
| Glengarry.....                   | 18,666            | 10,615          | 8,948               | McGillis, A.                          | Williamstown, Ont.               |
| Grenville-Dundas.....            | 32,425            | 20,645          | 14,612              | Casselman, A. C.                      | Prescott, Ont.                   |
| Grey North.....                  | 30,288            | 18,899          | 15,068              | Porteous, V. C.                       | Owen Sound, Ont.                 |
| Grey Southeast.....              | 27,411            | 16,912          | 13,028              | Macphail, Agnes C.                    | Ceylon, Ont.                     |
| Haldimand.....                   | 21,428            | 12,835          | 11,064              | Senn, M. C.                           | Caledonia, Ont.                  |
| Halton.....                      | 26,558            | 16,035          | 12,826              | Anderson, R. K.                       | Milton, Ont.                     |
| Hamilton East.....               | 66,771            | 36,829          | 21,475              | Rennie, G. S. <sup>2</sup>            | Hamilton, Ont.                   |
| Hamilton West.....               | 56,305            | 30,928          | 17,335              | Bell, C. W.                           | Hamilton, Ont.                   |
| Hastings-Peterborough.....       | 27,160            | 14,804          | 10,034              | Embury, A. T.                         | Bancroft, Ont.                   |
| Hastings South.....              | 39,327            | 22,563          | 18,548              | Tummon, W. E.                         | Tweed, Ont.                      |
| Huron North.....                 | 22,662            | 14,488          | 12,116              | Spotton, Geo.                         | Wingham, Ont.                    |
| Huron South.....                 | 22,518            | 14,146          | 12,035              | McMillan, T. <sup>3</sup>             | Seaforth, Ont.                   |
| Kenora-Rainy River.....          | 33,925            | 15,661          | 12,178              | Heenan, Hon. P. <sup>6</sup>          | Kenora, Ont.                     |
| Kent.....                        | 54,715            | 29,006          | 23,051              | Rutherford, J. W.                     | Chatham, Ont.                    |
| Kingston City.....               | 26,180            | 14,569          | 11,164              | Ross, A. E.                           | Kingston, Ont.                   |
| Lambton East.....                | 26,736            | 16,391          | 12,622              | Sproule, J. T.                        | Oil Springs, Ont.                |
| Lambton West.....                | 34,040            | 18,957          | 15,236              | Gray, R. W.                           | Sarnia, Ont.                     |
| Lanark.....                      | 32,856            | 20,816          | 16,815              | Thompson, T. A.                       | Almonte, Ont.                    |
| Leeds.....                       | 35,157            | 20,987          | 15,699              | Stewart, Hon. H. A.                   | Brockville, Ont.                 |
| Lincoln.....                     | 54,199            | 30,802          | 21,076              | Chaplin, Hon. J. D.                   | St. Catharines, Ont.             |
| London.....                      | 59,821            | 37,465          | 23,810              | White, J. F.                          | London, Ont.                     |
| Middlesex East.....              | 34,788            | 19,170          | 14,188              | Boyes, F.                             | Dorchester Station, Ont.         |
| Middlesex West.....              | 23,632            | 14,138          | 11,204              | Elliot, Hon. J. C.                    | Strathroy, Ont.                  |
| Muskoka-Ontario.....             | 35,513            | 20,447          | 14,740              | McGibbon, P.                          | Bracebridge, Ont.                |
| Nipissing.....                   | 70,204            | 32,193          | 23,683              | Hurtubise, J. R.                      | Sudbury, Ont.                    |
| Norfolk-Elgin.....               | 40,727            | 23,134          | 18,902              | Taylor, W. H.                         | Scotland, Ont.                   |
| Northumberland.....              | 30,727            | 18,290          | 16,175              | Fraser, W. A.                         | Trenton, Ont.                    |
| Ontario.....                     | 45,139            | 24,952          | 19,843              | Moore, W. H.                          | Dunbarton, Ont.                  |
| Ottawa.....                      | 106,077           | 61,535          | 97,369 <sup>1</sup> | (Chevriar, E. R. E.<br>Ahearn, T. F.) | Ottawa, Ont.<br>Ottawa, Ont.     |
| Oxford North.....                | 25,244            | 15,405          | 13,428              | Sutherland, Hon.<br>D. M.             | Woodstock, Ont.<br>Norwich, Ont. |
| Oxford South.....                | 22,581            | 13,660          | 11,388              | Cayley, T. M. <sup>4</sup>            | Norwich, Ont.                    |
| Parkdale.....                    | 59,246            | 37,242          | 17,566              | Spence, D.                            | Toronto, Ont.                    |
| Parry Sound.....                 | 25,900            | 13,169          | 9,918               | Arthurs, J.                           | Parry Sound, Ont.                |
| Peel.....                        | 28,156            | 17,077          | 13,995              | Charters, S.                          | Brampton, Ont.                   |
| Perth North.....                 | 33,822            | 20,249          | 16,610              | Wright, D. M.                         | Stratford, Ont.                  |
| Perth South.....                 | 17,670            | 11,099          | 9,428               | Sanderson, F. G.                      | St. Marys, Ont.                  |
| Peterborough West.....           | 37,042            | 21,575          | 17,608              | Peck, E. A.                           | Peterborough, Ont.               |
| Port Arthur-Thunder Bay.....     | 35,865            | 14,364          | 10,859              | Cowan, D. J.                          | Port Arthur, Ont.                |
| Prescott.....                    | 24,596            | 12,498          | 8,927               | Bertrand, E. O.                       | L'Orignal, Ont.                  |
| Prince Edward-Lennox.....        | 25,718            | 15,786          | 12,414              | Weese, J. A.                          | Belleville, Ont.                 |
| Renfrew North.....               | 27,230            | 14,571          | 11,086              | Cotnam, I. D.                         | Pembroke, Ont.                   |
| Renfrew South.....               | 26,986            | 14,534          | 12,595              | Maloney, M. J.                        | Eganville, Ont.                  |
| Russell.....                     | 43,831            | 21,807          | 17,591              | Goulet, A.                            | Bourget, Ont.                    |
| Simcoe East.....                 | 36,572            | 19,442          | 15,669              | Thompson, A. B.                       | Penetanguishene, Ont.            |
| Simcoe North.....                | 29,224            | 16,125          | 13,791              | Simpson, J. T.                        | Barrie, Ont.                     |
| Stormont.....                    | 32,524            | 17,694          | 15,318              | Shaver, F. T.                         | Aultsville, Ont.                 |
| Timiskaming North.....           | 58,284            | 24,879          | 16,773              | Bradette, J. A.                       | Cochrane, Ont.                   |
| Timiskaming South.....           | 43,948            | 21,892          | 16,024              | Gordon, Hon. W. A.                    | Haileybury, Ont.                 |
| Toronto East.....                | 68,987            | 40,630          | 19,835              | Ryckman, Hon.<br>E. B. <sup>7</sup>   | Toronto, Ont.<br>Toronto, Ont.   |
| Toronto East Centre.....         | 66,341            | 37,971          | 16,514              | Matthews, R. C.                       | Toronto, Ont.                    |
| Toronto High Park.....           | 64,088            | 36,245          | 17,661              | Anderson, A. J.                       | Toronto, Ont.                    |
| Toronto Northeast.....           | 106,123           | 63,635          | 27,742              | Baker, R. L.                          | Toronto, Ont.                    |
| Toronto Northwest.....           | 70,729            | 42,875          | 19,902              | MacNicol, J. R.                       | Toronto, Ont.                    |
| Toronto Scarborough.....         | 87,656            | 50,372          | 23,321              | Harris, J. H.                         | Toronto, Ont.                    |
| Toronto South.....               | 46,065            | 18,005          | 7,681               | Geary, G. R.                          | Toronto, Ont.                    |
| Toronto West Centre.....         | 61,972            | 31,136          | 17,261              | Factor, S.                            | Toronto, Ont.                    |

<sup>1</sup> Each voter could vote for two candidates. <sup>2</sup> Mr. G. S. Rennie died Oct. 13, 1930, and Mr. Humphrey Mitchell was elected Aug. 10, 1931. <sup>3</sup> Mr. T. McMillan died June 7, 1932, and Mr. William H. Golding was elected Oct. 3, 1932. <sup>4</sup> Mr. Cayley died May 30, 1933, and Mr. Almon S. Rennie was elected April 16, 1934. <sup>5</sup> Dr. Spankie died May 27, 1934, and Mr. Colin Campbell was elected Sept. 24, 1934. <sup>6</sup> Hon. P. Heenan resigned July 10, 1934, and Mr. H. B. McKinnon was elected Sept. 24, 1934. <sup>7</sup> Hon. E. B. Ryckman died Jan. 11, 1934, and Mr. T. L. Church was elected Sept. 24, 1934.



9.—Populations of Electoral Districts, Voters on Lists and Votes Polled, Names and Addresses of Members of the House of Commons, as Elected at the Seventeenth General Election—continued.

| Province and Electoral District. | Population, 1931. | Voters on List. | Votes Polled. | Name of Member.                    | P.O. Address.            |
|----------------------------------|-------------------|-----------------|---------------|------------------------------------|--------------------------|
| <b>Ontario—concluded.</b>        |                   |                 |               |                                    |                          |
| Victoria.....                    | 31,841            | 19,725          | 15,342        | Stinson, T. H.....                 | Lindsay, Ont.            |
| Waterloo North.....              | 53,777            | 28,694          | 22,580        | Euler, Hon. W. D.....              | Kitchener, Ont.          |
| Waterloo South.....              | 36,075            | 20,922          | 13,984        | Edwards, A. Mc-Kay.....            | Galt, Ont.               |
| Welland.....                     | 82,731            | 41,568          | 28,831        | Pettit, G. H.....                  | Welland, Ont.            |
| Wellington North.....            | 19,035            | 11,826          | 9,365         | Blair, J. K.....                   | Arthur, Ont.             |
| Wellington South.....            | 39,129            | 22,515          | 16,818        | Guthrie, Hon. H.....               | Guelph, Ont.             |
| Wentworth.....                   | 66,943            | 34,655          | 24,782        | Wilson, G. C.....                  | Dundas, Ont.             |
| York North.....                  | 38,607            | 23,801          | 20,583        | Lennox, T. H. <sup>5</sup> .....   | Toronto, Ont.            |
| York South.....                  | 62,258            | 31,010          | 17,296        | McGregor, R. H.....                | Toronto, Ont.            |
| York West.....                   | 124,883           | 62,645          | 32,300        | Lawson, J. E.....                  | Toronto, Ont.            |
| <b>Manitoba—</b>                 |                   |                 |               |                                    |                          |
| (17 members).....                | 700,139           | 328,089         | 235,192       |                                    |                          |
| Brandon.....                     | 30,483            | 20,438          | 16,451        | Beaubier, D. W.....                | Brandon, Man.            |
| Dauphin.....                     | 37,703            | 16,842          | 13,621        | Bowman, J. L.....                  | Dauphin, Man.            |
| Lisgar.....                      | 31,891            | 13,217          | 10,200        | Brown, J. L.....                   | Pilot Mound, Man.        |
| Macdonald.....                   | 32,090            | 15,152          | 11,784        | Weir, W. G.....                    | Rosebank, Man.           |
| Marquette.....                   | 37,468            | 18,051          | 14,742        | Mullins, H. A.....                 | Winnipeg, Man.           |
| Neepawa.....                     | 27,429            | 13,249          | 10,855        | Murphy, Hon. T. G.                 | Neepawa, Man.            |
| Nelson.....                      | 32,238            | 11,050          | 8,873         | Stitt, B. M.....                   | The Pas, Man.            |
| Portage la Prairie.....          | 33,979            | 15,738          | 12,641        | Burns, W. H.....                   | Portage la Prairie, Man. |
| Provencher.....                  | 32,613            | 11,879          | 7,905         | Beaubien, A. L.....                | St. Jean Baptiste, Man.  |
| Selkirk.....                     | 44,506            | 19,287          | 14,454        | Stitt, J. H.....                   | Winnipeg, Man.           |
| Souris.....                      | 26,726            | 14,296          | 12,102        | Willis, E. F.....                  | Boissevain, Man.         |
| Springfield.....                 | 42,350            | 16,614          | 11,082        | Hay, T.....                        | Gonor, Man.              |
| St. Boniface.....                | 43,389            | 20,775          | 13,738        | Howden, J. P.....                  | St. Boniface, Man.       |
| Winnipeg North.....              | 63,917            | 24,781          | 14,313        | Heaps, A. A.....                   | Winnipeg, Man.           |
| Winnipeg North Centre.....       | 45,350            | 22,649          | 10,955        | Woodsworth, J. S.....              | Winnipeg, Man.           |
| Winnipeg South.....              | 51,618            | 27,959          | 20,275        | Rogers, Hon. R.....                | Winnipeg, Man.           |
| Winnipeg South Centre.....       | 77,489            | 46,112          | 31,201        | Kennedy, W. W.....                 | Winnipeg, Man.           |
| <b>Saskatchewan—</b>             |                   |                 |               |                                    |                          |
| (21 members).....                | 921,785           | 410,400         | 331,652       |                                    |                          |
| Assiniboia.....                  | 41,144            | 18,867          | 15,723        | McKenzie, R.....                   | Stoughton, Sask.         |
| Humboldt.....                    | 44,146            | 18,069          | 14,079        | Totzke, A. F.....                  | Vonda, Sask.             |
| Kindersley.....                  | 35,290            | 16,465          | 12,570        | Carmichael, A. M.....              | Kindersley, Sask.        |
| Last Mountain.....               | 36,507            | 15,215          | 12,946        | Butcher, H.....                    | Funnichy, Sask.          |
| Long Lake.....                   | 31,286            | 14,640          | 12,514        | Cowan, W. D. <sup>4</sup> .....    | Regina, Sask.            |
| Mackenzie.....                   | 44,869            | 17,652          | 13,592        | Campbell, M. N. <sup>3</sup> ..... | Pelly, Sask.             |
| Maple Creek.....                 | 43,903            | 20,799          | 17,449        | Swanson, J. B.....                 | Shaunavon, Sask.         |
| Melfort.....                     | 52,668            | 22,914          | 17,587        | Weir, Hon. Robt. W.                | Weldon, Sask.            |
| Melville.....                    | 39,338            | 16,677          | 14,273        | Motherwell, Hon. W. R.....         | Abernethy, Sask.         |
| Moose Jaw.....                   | 42,334            | 21,825          | 17,704        | Beynon, W. A.....                  | Moose Jaw, Sask.         |
| North Battleford.....            | 53,708            | 20,811          | 15,566        | McIntosh, C. R.....                | North Battleford, Sask.  |
| Prince Albert.....               | 50,896            | 20,676          | 17,464        | Mackenzie King, Rt. Hon. W. L..... | Ottawa, Ont.             |
| Qu'Appelle.....                  | 35,938            | 17,397          | 14,851        | Perley, E. D.....                  | Wolesey, Sask.           |
| Regina.....                      | 60,858            | 30,707          | 25,430        | Turnbull, F. W.....                | Regina, Sask.            |
| Rosetown.....                    | 32,526            | 15,286          | 12,448        | Loucks, W. J.....                  | Delisle, Sask.           |
| Saskatoon.....                   | 60,636            | 28,850          | 21,566        | MacMillan, F. R.....               | Saskatoon, Sask.         |
| South Battleford.....            | 45,199            | 20,026          | 16,223        | Vallance, J.....                   | Onward, Sask.            |
| Swift Current.....               | 41,717            | 17,775          | 14,010        | Bothwell, C. E.....                | Swift Current, Sask.     |
| Weyburn.....                     | 41,684            | 17,523          | 14,474        | Young, E. J.....                   | Dummer, Sask.            |
| Willow Bunch.....                | 48,466            | 22,638          | 18,799        | Donnelly, T. F.....                | Kincaid, Sask.           |
| Yorkton.....                     | 38,692            | 15,388          | 12,384        | McPhee, G. W.....                  | Yorkton, Sask.           |
| <b>Alberta—</b>                  |                   |                 |               |                                    |                          |
| (16 members).....                | 731,605           | 304,475         | 201,635       |                                    |                          |
| Acadia.....                      | 34,896            | 1               | 1             | Gardiner, R.....                   | Excel, Alta.             |
| Athabaska.....                   | 55,298            | 19,617          | 11,989        | Buckley, J. F. <sup>2</sup> .....  | St. Paul, Alta.          |
| Battle River.....                | 43,441            | 19,054          | 10,900        | Spencer, H. E.....                 | Edgerton, Alta.          |
| Bow River.....                   | 35,901            | 14,483          | 10,523        | Garland, E. J.....                 | Gleichen, Alta.          |

<sup>1</sup> Acclamation. <sup>2</sup> Mr. J. F. Buckley was killed Nov. 27, 1931, and Mr. P. G. Davies was elected Mar. 31, 1932. <sup>3</sup> Mr. Campbell resigned Feb. 6, 1933, and Mr. John A. MacMillan was elected Oct. 23, 1933. <sup>4</sup> Dr. Cowan died Sept. 28, 1934. <sup>5</sup> Col. Lennox died May 3, 1934, and Mr. W. P. Mulock was elected Sept. 24, 1934.

**9.—Populations of Electoral Districts, Voters on Lists and Votes Polled, Names and Addresses of Members of the House of Commons, as Elected at the Seventeenth General Election—concluded.**

| Province and Electoral District. | Population, 1931. | Voters on List. | Votes Polled. | Name of Member.                | P.O. Address.                         |
|----------------------------------|-------------------|-----------------|---------------|--------------------------------|---------------------------------------|
| <b>Alberta—concluded.</b>        |                   |                 |               |                                |                                       |
| Calgary East.....                | 51,640            | 25,355          | 17,442        | Stanley, G. D.....             | Calgary, Alta.                        |
| Calgary West.....                | 50,898            | 27,669          | 19,879        | Bennett, Rt. Hon.<br>R. B..... | Calgary, Alta.                        |
| Camrose.....                     | 39,806            | 17,462          | 10,970        | Lucas, W. T.....               | Lougheed, Alta.                       |
| Edmonton East.....               | 48,865            | 22,466          | 15,007        | Bury, A. U. G.....             | Edmonton, Alta.                       |
| Edmonton West.....               | 51,584            | 25,365          | 18,275        | Stewart, Hon. C. S.            | Edmonton, Alta.                       |
| Lethbridge.....                  | 47,871            | 17,555          | 12,579        | Stewart, J. S.....             | Lethbridge, Alta.                     |
| Macleod.....                     | 40,336            | 18,844          | 13,093        | Coote, G. G.....               | Nanton, Alta.                         |
| Medicine Hat.....                | 32,709            | 14,071          | 9,205         | Gershaw, F. W.....             | Medicine Hat, Alta.                   |
| Peace River.....                 | 76,778            | 31,741          | 18,732        | Kennedy, D. McB..              | Waterhole, Alta.                      |
| Red Deer.....                    | 39,385            | 18,182          | 10,901        | Speakman, A.....               | Red Deer, Alta.                       |
| Vegreville.....                  | 37,442            | 15,001          | 10,137        | Luchkovich, M.....             | Vegreville, Alta.                     |
| Wetaskiwin.....                  | 44,755            | 17,610          | 12,003        | Irvine, W.....                 | Wetaskiwin, Alta.                     |
| <b>British Columbia—</b>         |                   |                 |               |                                |                                       |
| (14 members).....                | 694,263           | 333,326         | 243,631       |                                |                                       |
| Cariboo.....                     | 52,702            | 22,197          | 16,889        | Fraser, J. A.....              | Quesnel, B.C.                         |
| Comox-Alberni.....               | 25,369            | 10,751          | 8,983         | Neill, A. W.....               | Alberni, B.C.                         |
| Fraser Valley.....               | 38,507            | 15,802          | 13,385        | Barber, H. J.....              | Chilliwack, B.C.                      |
| Kootenay East.....               | 22,566            | 10,834          | 9,212         | McLean, M. D. <sup>1</sup> ..  | Michel, B.C.                          |
| Kootenay West.....               | 39,943            | 17,911          | 14,150        | Eisling, W. K.....             | Rossland, B. C.                       |
| Nanaimo.....                     | 55,524            | 28,593          | 20,598        | Dickie, C. H.....              | Duncan, B.C.                          |
| New Westminster.....             | 69,294            | 32,647          | 23,970        | Reid, T.....                   | Newton (Surrey<br>Municipality), B.C. |
| Skeena.....                      | 30,358            | 11,770          | 9,733         | Hanson, O.....                 | Prince Rupert, B.C.                   |
| Vancouver-Burrard.....           | 82,519            | 45,220          | 31,878        | Hanbury, W.....                | Vancouver, B.C.                       |
| Vancouver Centre.....            | 75,234            | 33,483          | 22,244        | Mackenzie, Hon. I.             | Vancouver, B.C.                       |
| Vancouver North.....             | 32,972            | 16,737          | 12,661        | Munn, A. E.....                | Vancouver, B.C.                       |
| Vancouver South.....             | 89,556            | 47,226          | 31,728        | MacInnis, A.....               | Vancouver, B.C.                       |
| Victoria.....                    | 39,082            | 22,151          | 14,740        | Plunkett, D'A. B..             | Victoria, B.C.                        |
| Yale.....                        | 40,637            | 18,004          | 13,480        | Stirling, G.....               | Kelowna, B.C.                         |
| <b>Yukon—</b>                    |                   |                 |               |                                |                                       |
| (1 member).                      |                   |                 |               |                                |                                       |
| Yukon.....                       | 4,230             | 1,719           | 1,408         | Black, G.....                  | Dawson, Yukon.                        |

<sup>1</sup> Mr. M. D. McLean having accepted an office of emolument under the Crown, Hon. H. H. Stevens was elected by acclamation, Aug. 25, 1930.

Table 10, immediately following, gives the population of 1931 arranged for the readjustment of representation in the House of Commons already described on p. 77.

**10.—Populations of Electoral Districts According to the Representation Act of 1933.**

| Province and Electoral District. | 1931 Population. | Province and Electoral District. | 1931 Population. | Province and Electoral District. | 1931 Population. |
|----------------------------------|------------------|----------------------------------|------------------|----------------------------------|------------------|
| <b>Prince Edward Island.....</b> |                  | <b>Nova Scotia—con.</b>          |                  | <b>Quebec.....</b>               |                  |
| Kings.....                       | 88,038           | Pictou.....                      | 39,018           | Argenteuil.....                  | 2,874,255        |
| Prince.....                      | 19,147           | Queens-Lunenburg.....            | 42,286           | Beauce.....                      | 19,379           |
| Queens.....                      | 31,600           | Shelburne-Yarmouth-Clare.....    | 41,572           | Beauharnois.....                 | 51,614           |
|                                  | 37,391           |                                  |                  | Laprairie.....                   | 42,104           |
| <b>Nova Scotia.....</b>          |                  | <b>New Brunswick.....</b>        |                  | Bellechasse.....                 | 27,480           |
| Antigonish-Guysborough.....      | 512,846          | Charlotte.....                   | 408,219          | Berthier.....                    |                  |
| Cape Breton N.-Victoria.....     | 25,516           | Gloucester.....                  | 21,337           | Maskinongé.....                  | 35,545           |
| Cape Breton S.....               | 31,615           | Kent.....                        | 41,914           | Bonaventure.....                 | 36,184           |
| Colchester-Hants.....            | 65,198           | Northumberland.....              | 23,478           | Brome-Missisquoi.....            | 32,069           |
| Cumberland.....                  | 44,444           | Restigouche.....                 | 34,124           | Chambly-Rouville.....            | 39,648           |
| Digby-Annapolis-Kings.....       | 36,366           | Madawaska.....                   | 54,386           | Champlain.....                   | 37,526           |
| Halifax.....                     | 50,859           | Royal.....                       | 31,026           | Chapleau.....                    | 24,328           |
| Inverness.....                   | 100,204          | St-John-Albert.....              | 69,292           | Charlevoix.....                  |                  |
| Richmond.....                    | 35,768           | St-John-Carleton.....            | 35,703           | Saguenay.....                    | 55,594           |
|                                  |                  | Westmorland.....                 | 57,506           | Chateauguay.....                 |                  |
|                                  |                  | York-Sunbury.....                | 39,453           | Huntingdon.....                  | 24,412           |
|                                  |                  |                                  |                  | Chicoutimi.....                  | 55,724           |
|                                  |                  |                                  |                  | Compton.....                     | 31,858           |

## 10.—Populations of Electoral Districts According to the Representation Act of 1933—continued.

| Province and Electoral District.    | 1931 Population. | Province and Electoral District. | 1931 Population. | Province and Electoral District. | 1931 Population. |
|-------------------------------------|------------------|----------------------------------|------------------|----------------------------------|------------------|
| <b>Quebec—con.</b>                  |                  | <b>Ontario—con.</b>              |                  | <b>Ontario—con.</b>              |                  |
| Dorchester.....                     | 27,156           | Brantford City—                  | 32,274           | York S.....                      | 60,350           |
| Drummond.....                       |                  | Bruce.....                       | 29,842           | York W.....                      | 55,881           |
| Arthabaska.....                     | 53,338           | Carleton.....                    | 31,305           | <b>Toronto City—</b>             |                  |
| Gaspé.....                          | 47,160           | Cochrane.....                    | 58,284           | Broadview.....                   | 57,523           |
| Hull.....                           | 49,196           | Dufferin—Simcoe.....             | 27,394           | Danforth.....                    | 41,824           |
| Joliette—L'Assomption—Montcalm..... | 56,444           | Durham.....                      | 25,782           | Davenport.....                   | 57,039           |
| Kamouraska.....                     | 30,853           | Elgin.....                       | 43,436           | Eglinton.....                    | 54,859           |
| Labelle.....                        | 36,953           | Essex E.....                     | 51,718           | Greenwood.....                   | 57,296           |
| Lac St. Jean—                       |                  | Essex S.....                     | 31,970           | High Park.....                   | 52,971           |
| Roberval.....                       | 50,253           | Essex W.....                     | 75,350           | Parkdale.....                    | 51,398           |
| Laval-Deux Montagnes.....           | 26,224           | Fort William.....                | 34,656           | Rosedale.....                    | 53,081           |
| Lévis.....                          | 28,548           | Frontenac—                       |                  | St. Pauls.....                   | 62,283           |
| Lotbinière.....                     | 38,546           | Addington.....                   | 26,455           | Spadina.....                     | 82,127           |
| Matapédia—Matane.....               | 39,977           | Glengarry.....                   | 18,666           | Trinity.....                     | 60,806           |
| Mégantic—                           |                  | Grenville—Dundas.....            | 32,425           |                                  |                  |
| Frontenac.....                      | 44,440           | Grey—Bruce.....                  | 35,738           |                                  |                  |
| Montmagny—                          |                  | Grey N.....                      | 34,407           | <b>Manitoba.....</b>             | <b>700,139</b>   |
| L'Islet.....                        | 30,869           | Haldimand.....                   | 21,428           | Brandon.....                     | 40,483           |
| Nicolet—Yamaska.....                | 39,219           | Halton.....                      | 26,558           | Churchill.....                   | 32,133           |
| Pontiac.....                        | 43,045           | Hamilton E.....                  | 66,771           | Dauphin.....                     | 37,703           |
| Portneuf.....                       | 37,383           | Hamilton W.....                  | 56,305           | Lisgar.....                      | 30,547           |
| Quebec E.....                       | 58,145           | Hastings—                        |                  | Macdonald.....                   | 34,948           |
| Quebec S.....                       | 33,441           | Peterborough.....                | 27,160           | Marquette.....                   | 37,468           |
| Quebec W. and S.....                | 43,617           | Hastings S.....                  | 39,327           | Neepawa.....                     | 28,346           |
| Quebec—                             |                  | Huron N.....                     | 26,095           | Portage la Prairie.....          | 25,569           |
| Montmorency.....                    | 40,274           | Huron—Perth.....                 | 22,661           | Provencher.....                  | 32,613           |
| Richelieu—Verchères.....            | 35,901           | Kenora—Rainy                     |                  | St. Boniface.....                | 31,289           |
| Richmond—Wolfe.....                 | 36,568           | River.....                       | 39,834           | Selkirk.....                     | 52,222           |
| Rimouski.....                       | 40,208           | Kent.....                        | 50,994           | Souris.....                      | 25,094           |
| St. Hyacinthe—                      |                  | Kingston City.....               | 26,180           | Springfield.....                 | 42,350           |
| Bagot.....                          | 42,820           | Lambton—Kent.....                | 34,686           | Winnipeg N.....                  | 74,762           |
| St. Jean—Iberville—                 |                  | Lambton W.....                   | 32,601           | Winnipeg N. Centre.....          | 59,004           |
| Napierville.....                    | 32,259           | Lanark.....                      | 32,856           | Winnipeg S.....                  | 51,518           |
| St. Maurice—                        |                  | Leeds.....                       | 35,157           | Winnipeg S. Centre.....          | 64,090           |
| Laflèche.....                       | 45,450           | Lincoln.....                     | 54,199           |                                  |                  |
| Shefford.....                       | 28,262           | London.....                      | 59,821           | <b>Saskatchewan.....</b>         | <b>921,785</b>   |
| Sherbrooke.....                     | 37,386           | Middlesex E.....                 | 34,788           | Assiniboia.....                  | 41,036           |
| Stanstead.....                      | 25,118           | Middlesex W.....                 | 23,632           | Humboldt.....                    | 41,172           |
| Témiscouata.....                    | 42,679           | Muskoka—Ontario.....             | 35,513           | Kindersley.....                  | 39,362           |
| Terrebonne.....                     | 38,940           | Nipissing.....                   | 88,597           | Lake Centre.....                 | 42,532           |
| Three Rivers.....                   | 44,223           | Norfolk.....                     | 31,359           | Mackenzie.....                   | 46,171           |
| Vaudreuil—                          |                  | Northumberland.....              | 30,727           | Maple Creek.....                 | 42,428           |
| Soulanges.....                      | 21,114           | Ontario.....                     | 45,139           | Melford.....                     | 40,687           |
| Wright.....                         | 27,107           | Ottawa E.....                    | 51,667           | Melville.....                    | 48,910           |
| <b>Montreal Island—</b>             |                  | Ottawa W.....                    | 47,825           | Moose Jaw.....                   | 43,668           |
| Cartier.....                        | 61,280           | Oxford.....                      | 26,198           | North Battleford.....            | 41,513           |
| Hochelaga.....                      | 78,353           | Parry Sound.....                 | 28,156           | Prince Albert.....               | 39,869           |
| Jacques Cartier.....                | 42,671           | Peel.....                        | 47,816           | Qu'Appelle.....                  | 38,015           |
| Laurier.....                        | 68,784           | Perth.....                       | 37,042           | Regina City.....                 | 53,209           |
| Maisonneuve—                        |                  | Peterborough W.....              | 35,313           | Rosetown—Biggar.....             | 40,512           |
| Rosemont.....                       | 64,845           | Port Arthur.....                 | 24,596           | Rosthern.....                    | 43,855           |
| Mercier.....                        | 66,651           | Prescott.....                    |                  | Saskatoon City.....              | 47,362           |
| Mont Royal.....                     | 65,012           | Prince Edward—                   |                  | Swift Current.....               | 46,447           |
| Outremont.....                      | 46,136           | Lennox.....                      | 28,697           | The Battlefords.....             | 45,064           |
| Ste. Anne.....                      | 38,673           | Renfrew N.....                   | 27,230           | Weyburn.....                     | 44,710           |
| St. Antoine—                        |                  | Renfrew S.....                   | 26,986           | Wood Mountain.....               | 44,558           |
| Westmount.....                      | 50,009           | Russell.....                     | 26,899           | Yorkton.....                     | 50,405           |
| St. Denis.....                      | 76,930           | Simcoe E.....                    | 36,572           |                                  |                  |
| St. Henri.....                      | 78,127           | Simcoe N.....                    | 29,224           | <b>Alberta.....</b>              | <b>731,605</b>   |
| St. Jacques.....                    | 89,374           | Stormont.....                    | 32,524           | Acadia.....                      | 37,423           |
| St. Laurent—                        |                  | Timiskaming.....                 | 37,594           | Athabaska.....                   | 39,102           |
| St. Georges.....                    | 40,213           | Victoria.....                    | 31,841           | Battle River.....                | 41,881           |
| Ste. Marie.....                     | 77,472           | Waterloo N.....                  | 53,777           | Bow River.....                   | 44,491           |
| Verdun.....                         | 63,144           | Waterloo S.....                  | 36,075           | Calgary E.....                   | 44,745           |
| <b>Ontario.....</b>                 | <b>3,431,653</b> | Welland.....                     | 82,731           | Calgary W.....                   | 41,418           |
| Algoma E.....                       | 27,925           | Wellington N.....                | 27,677           | Camrose.....                     | 42,717           |
| Algoma W.....                       | 35,618           | Wellington S.....                | 35,866           | Edmonton E.....                  | 46,086           |
| Brant.....                          | 21,202           | Wentworth.....                   | 66,943           | Edmonton W.....                  | 39,712           |
|                                     |                  | York E.....                      | 66,194           |                                  |                  |
|                                     |                  | York N.....                      | 43,323           |                                  |                  |



**10.—Populations of Electoral Districts According to the Representation Act of 1933—concluded.**

| Province and Electoral District. | 1931 Population. | Province and Electoral District. | 1931 Population. | Province and Electoral District. | 1931 Population. |
|----------------------------------|------------------|----------------------------------|------------------|----------------------------------|------------------|
| <b>Alberta—con.</b>              |                  | <b>British Columbia....</b>      | <b>694,263</b>   | <b>Br. Columbia—con.</b>         |                  |
| Jasper-Edson.....                | 47,394           | Cariboo.....                     | 26,094           | Skeena.....                      | 30,391           |
| Lethbridge.....                  | 44,708           | Comox-Alberni.....               | 28,379           | Vancouver-Burrard.....           | 59,583           |
| Macleod.....                     | 44,325           | Fraser Valley.....               | 31,377           | Vancouver Centre.....            | 65,683           |
| Medicine Hat.....                | 40,986           | Kamloops.....                    | 29,249           | Vancouver E.....                 | 58,921           |
| Peace River.....                 | 43,761           | Kootenay E.....                  | 25,662           | Vancouver N.....                 | 48,906           |
| Red Deer.....                    | 39,758           | Kootenay W.....                  | 32,556           | Vancouver S.....                 | 63,122           |
| Vegreville.....                  | 47,768           | Nanaimo.....                     | 45,767           | Victoria.....                    | 48,599           |
| Wetaskiwin.....                  | 45,330           | New Westminster.....             | 59,170           | Yale.....                        | 40,804           |

**Subsection 5.—The Dominion Franchise.\***

It was provided by the B.N.A. Act, 1867, that, until otherwise directed by Parliament, elections to the House of Commons should be governed by the electoral laws of the several provinces. The qualifications of electors throughout the Dominion consequently remained the same for both Dominion and provincial elections until, in 1885, Parliament legislated on the subject by passing the Electoral Franchise Act (1885, c. 40). That Act defined a uniform qualification for voters throughout Canada for Dominion purposes, the basis of this new franchise being the ownership or occupation of land of a specified value, although the sons of owners, and particularly farmers' sons, were given the right to vote on special conditions; each province, of course, continued separately to define the qualifications of voters at provincial elections. This Dominion franchise remained in force for thirteen years, but between 1898 and 1920, under the Franchise Act of the former year (1898, c. 14), the provincial franchises were again made applicable at Dominion elections, except that on the constitution of the provinces of Alberta and Saskatchewan it was provided that manhood suffrage, which had already been adopted for the Northwest Territories under an Act to amend the N.W.T. Act (1895, c. 16), should continue in force for Dominion purposes independently of any action that might be taken by the newly elected legislatures of these two provinces (R.S.C. 1906, c. 6, ss. 31-65). In the other provinces the rules as to the qualifications of voters varied from time to time. In Manitoba manhood suffrage had been adopted in 1888 (1888, c. 2), and the franchise was extended to women on the same terms as to men in 1916 (1916, c. 36). Alberta and Saskatchewan, on their establishment as provinces, continued the previously existing manhood suffrage and both extended the franchise to women on the same terms as to men in 1916 (Alta. 1916, c. 5; Sask. 1916, c. 37). British Columbia adopted manhood suffrage in 1904 (1903-1904, c. 7), Ontario in 1907 (7 Edw. VII, c. 5), and New Brunswick in 1916 (6 Geo. V, c. 16); in British Columbia (1917, c. 23) and in Ontario (7 Geo. V, c. 5), the franchise was extended equally to women in 1917, and in New Brunswick this was done in 1919 (9 Geo. V, c. 63). In Quebec and Prince Edward Island the provincial franchises throughout the period in question were not so wide; in neither were women admitted to vote and certain property or other special qualifications were required in each. A property qualification was also required in Nova Scotia until 1920 (10-11 Geo. V, c. 49), but between 1918 and 1920 men and women had voted on equal terms (9 Geo. V, c. 3). The adoption of the provincial franchise laws for Dominion purposes was temporarily modified by the War Times Elections Act (1917, c. 39), which admitted certain near female relatives of serving soldiers and

\*Revised by John Thompson, Dominion Franchise Commissioner.

sailors to vote at Dominion elections, and three years later, on the adoption of a New Dominion Elections Act (1920, c. 46), the provincial franchises were again wholly abandoned and a new electoral qualification was established for Dominion elections throughout Canada. Subject to a modification of the usual rules as to changes of nationality, which was amended in 1921 (1921, c. 29, s. 3) and repealed in 1922 (1922, c. 20, s. 1), the right to vote was conferred by the new Act upon all British subjects, male and female, of 21 years and upwards, who had resided in Canada for a year, and for two months in the electoral district in which they desired to vote, this last restriction having been removed two years later (1922, c. 20), so far as it applied to general elections.

The right to vote is at present provided for in the Dominion Franchise Act, (24-25 Geo. V, c. 51). The franchise is conferred upon all British subjects who are of the full age of twenty-one years and who have been ordinarily resident in Canada for at least one year and for three months resident in the electoral district in which application is made for registration.

Those denied the right to vote are: prisoners undergoing punishment for any offence; persons restrained of their liberty or management of their property by reason of mental disease; Indians ordinarily resident on an Indian reservation who did not serve in the war 1914-1918; Judges appointed by Order in Council; persons who are disqualified under the law of Canada relating to the disqualification of electors for corrupt and illegal practices; inmates of an institution which is maintained by any government or municipality for the housing of the poor; Eskimos, whether born in Canada or elsewhere; persons who are disqualified by reason of race from voting at an election of a member of the Legislative Assembly of a province in which they are residing, and who did not serve in the war of 1914-1918; in the province of British Columbia, every Doukhobor or any descendant of such, whether born in that province or elsewhere who is by the law of that province disqualified to vote at an election of a member of the Legislative Assembly of that province.

**The Use of the Franchise.**—The number of voters on the lists and the number of votes polled at the general elections of 1921, 1925, 1926 and 1930, are given in Table 11.

# 11.—Number of Voters and Votes Polled in the General Elections of 1921, 1925, 1926 and 1930.

| Province.             | Number of Voters on the List. |                  |                              |                              | Number of Votes Polled. |                        |                              |                              |
|-----------------------|-------------------------------|------------------|------------------------------|------------------------------|-------------------------|------------------------|------------------------------|------------------------------|
|                       | 1921.                         | 1925.            | 1926.                        | 1930.                        | 1921.                   | 1925.                  | 1926.                        | 1930.                        |
| P. E. Island.....     | 46,879                        | 45,454           | 46,208                       | 46,985                       | 52,556 <sup>1</sup>     | 49,558 <sup>1</sup>    | 55,569 <sup>1</sup>          | 59,519 <sup>1</sup>          |
| Nova Scotia.....      | 294,473                       | 277,073          | 273,712                      | 275,762                      | 260,850 <sup>2</sup>    | 222,883 <sup>2</sup>   | 229,846 <sup>2</sup>         | 268,727 <sup>2</sup>         |
| New Brunswick.....    | 204,575                       | 211,190          | 210,028                      | 207,006                      | 156,263 <sup>3</sup>    | 152,652 <sup>3</sup>   | 162,777 <sup>3</sup>         | 186,277 <sup>3</sup>         |
| Quebec.....           | 1,056,792                     | 1,124,998        | 1,133,633                    | 1,351,585 <sup>4</sup>       | 779,951                 | 805,492                | 809,295                      | 1,029,480 <sup>5</sup>       |
| Ontario.....          | 1,738,020                     | 1,821,906        | 1,847,512                    | 1,894,024                    | 1,139,635 <sup>4</sup>  | 1,223,027 <sup>4</sup> | 1,226,267 <sup>4</sup>       | 1,364,960 <sup>4</sup>       |
| Manitoba.....         | 255,143                       | 250,505          | 257,244 <sup>5</sup>         | 328,089                      | 173,941                 | 171,124                | 198,028 <sup>5</sup>         | 235,192                      |
| Saskatchewan.....     | 333,613                       | 346,791          | 353,471                      | 410,400                      | 225,236                 | 197,246                | 246,460                      | 331,652                      |
| Alberta.....          | 273,706                       | 283,529          | 279,463                      | 304,475                      | 173,824                 | 161,423                | 157,993                      | 201,635                      |
| British Columbia..... | 230,451                       | 244,352          | 262,262                      | 333,326                      | 156,012                 | 183,748                | 185,345                      | 243,631                      |
| Yukon.....            | 1,658                         | 1,621            | 1,848                        | 1,719                        | 1,388                   | 1,259                  | 1,482                        | 1,408                        |
| <b>Totals.....</b>    | <b>4,435,310</b>              | <b>4,607,419</b> | <b>4,665,381<sup>5</sup></b> | <b>5,153,971<sup>6</sup></b> | <b>3,119,306</b>        | <b>3,168,412</b>       | <b>3,273,062<sup>5</sup></b> | <b>3,922,481<sup>6</sup></b> |

<sup>1</sup> Each voter in the double member constituency of Queens County, P.E.I., had two votes; in 1930, 20,382 voters on the list cast 35,776 votes. <sup>2</sup> Each voter in the double member constituency of Halifax, N.S., had two votes; in 1930, 53,154 voters on the list cast 81,662 votes. <sup>3</sup> Each voter in the double member constituency of Saint John-Albert, N.B., had two votes; in 1930, 37,067 voters on the list cast 50,121 votes. <sup>4</sup> Each voter in the double member constituency of Ottawa, Ont., had two votes; in 1930, 61,535 voters on the list cast 97,369 votes. <sup>5</sup> Not including one electoral district in which the return was by acclamation. <sup>6</sup> Not including two electoral districts in which the returns were by acclamation.

## Section 2.—Provincial Governments.

Table 12 gives the names and areas, as in 1934, of the several provinces, territories and provisional districts of the Dominion, together with the dates of their creation or admission into the Confederation and the legislative process by which this was effected.

**12.—Provinces and Territories of Canada, with Present Areas, Dates of Admission to Confederation and Legislative Process by which Admission was Effected.**

| Province, Territory or District. | Date of Admission or Creation. | Legislative Process.                            | Present Area (square miles). |                     |                      |
|----------------------------------|--------------------------------|-------------------------------------------------|------------------------------|---------------------|----------------------|
|                                  |                                |                                                 | Land.                        | Fresh Water.        | Total.               |
| Ontario.....                     | July 1, 1867                   | Act of Imperial Parliament — The                | 363,282                      | 49,300              | 412,582 <sup>1</sup> |
| Quebec.....                      | " 1, 1867                      | British North America Act, 1867                 | 523,534                      | 71,000 <sup>2</sup> | 594,534              |
| Nova Scotia.....                 | " 1, 1867                      | (30-31 Vict., c. 3), and Imperial               | 20,743                       | 325                 | 21,068               |
| New Brunswick.....               | " 1, 1867                      | Order in Council of May 22, 1867.               | 27,710                       | 275                 | 27,985               |
| Manitoba.....                    | " 15, 1870                     | Manitoba Act, 1870 (33 Vict., c. 3) and         |                              |                     |                      |
|                                  |                                | Imperial Order in Council, June 23, 1870        | 219,723                      | 26,789              | 246,512 <sup>3</sup> |
| British Columbia.....            | " 20, 1871                     | Imperial Order in Council, May 16, 1871         | 359,279                      | 6,976               | 366,255              |
| P. E. Island.....                | " 1, 1873                      | Imperial Order in Council, June 26, 1873        | 2,184                        | —                   | 2,184                |
| Saskatchewan.....                | Sept. 1, 1905                  | Saskatchewan Act, 1905 (4-5 Edw. VII, c. 42).   | 237,975                      | 13,725              | 251,700 <sup>4</sup> |
| Alberta.....                     | " 1, 1905                      | Alberta Act, 1905 (4-5 Edw. VII, c. 3).         | 248,800                      | 6,485               | 255,285 <sup>4</sup> |
| Yukon.....                       | June 13, 1898                  | Yukon Territory Act, 1898 (61 Vict., c. 6)..... | 205,346                      | 1,730               | 207,076              |
| Mackenzie.....                   | Jan. 1, 1920                   |                                                 | 493,225                      | 34,265              | 527,490 <sup>5</sup> |
| Keewatin.....                    | " 1, 1920                      |                                                 | 218,460                      | 9,700               | 228,160 <sup>5</sup> |
| Franklin.....                    | " 1, 1920                      | Order in Council, Mar. 16, 1918.....            | 546,532                      | 7,500               | 554,032 <sup>5</sup> |
| <b>Totals.....</b>               |                                |                                                 | <b>3,466,793</b>             | <b>228,070</b>      | <b>3,694,863</b>     |

<sup>1</sup>The area of Ontario was extended by the Ontario Boundaries Extension Act, 1912 (2 Geo. V, c. 40).

<sup>2</sup>Extended by Quebec Boundaries Extension Act, 1912 (2 Geo. V, c. 45), and diminished in consequence of the award of the Judicial Committee of the British Privy Council (Mar. 1, 1927), whereby some 112,400 square miles of territory, formerly considered as part of Quebec, were assigned to Newfoundland.

<sup>3</sup>Extended by Extension of Boundaries of Manitoba Act, 1881, and Manitoba Boundaries Extension Act, 1912 (2 Geo. V, c. 32).

<sup>4</sup>Alberta and Saskatchewan now cover approximately the area formerly comprised in the districts of Assiniboia, Athabaska, Alberta and Saskatchewan, established May 17, 1882, by minute of Canadian P.C., concurred in by Dominion Parliament and Order in Council of Oct. 2, 1895.

<sup>5</sup>By an Order in Council of June 23, 1870, Rupert's Land, acquired under the Rupert's Land Acts of 1867 and 1868, and the undefined Northern Territories were admitted into the Confederation. The original Northwest Territories, mentioned in the Manitoba Act, 1870, were established by the Northwest Territories Act, 1880 (43 Vict., c. 25), the district of Keewatin having been previously defined by an Act of the Dominion Parliament (39 Vict., c. 21). The provisional districts of Yukon, Mackenzie, Franklin and Ungava were defined in an Order in Council of Oct. 2, 1895, their boundaries being changed by Order in Council of Dec. 18, 1897. By Order in Council of July 24, 1905, the area of Keewatin, not included in the Northwest Territories, was annexed to the latter from Sept. 1, 1905. By the Extension of Boundaries Act, 1912, Ungava was made a part of the province of Quebec, and the remaining area of the Northwest Territories south of 60° N. latitude was divided between Manitoba and Ontario.

In each of the provinces the King is represented by a Lieutenant-Governor appointed by the Governor General in Council, and governs with the advice and assistance of his Ministry or Executive Council, which is responsible to the Legislature and resigns office when it ceases to enjoy the confidence of that body. The Legislatures of all the provinces with the exception of Quebec are now unicameral,\* consisting of a Legislative Assembly elected by the people. In Quebec there is a Legislative Council as well as a Legislative Assembly. For detailed description of the Provincial Governments, the reader is referred to pp. 101-115 of the 1922-23 edition of the Year Book.

The Lieutenant-Governors of the provinces, together with the names of the Ministers of the present administrations, are given in Table 13. Details regarding Provincial Legislatures and Ministries from Confederation to 1924 were given on pp. 75-84 of the 1924 Year Book.

\*The Legislative Council of Nova Scotia ceased to exist in 1923.



**13.—Lieutenant-Governors of Provinces, 1867-1934, and Present Ministries.**

NOTE.—The Lieutenant-Governor of a province is styled "His Honour" and is also styled "Honourable" throughout his life.

**PRINCE EDWARD ISLAND.**

**LIUTENANT-GOVERNORS.**

| Name.                           | Date of Appointment. | Name.                  | Date of Appointment. |
|---------------------------------|----------------------|------------------------|----------------------|
| W. C. F. Robinson.....          | June 10, 1873        | D. A. McKinnon.....    | Oct. 3, 1904         |
| Sir Robert Hodgson.....         | Nov. 22, 1873        | Benjamin Rogers.....   | June 1, 1910         |
| Thomas H. Haviland.....         | July 14, 1879        | A. C. Macdonald.....   | June 2, 1915         |
| Andrew Archibald Macdonald..... | Aug. 1, 1884         | Murdock McKinnon.....  | Sept. 3, 1919        |
| Jedediah S. Carvell.....        | Sept. 21, 1889       | Frank R. Heartz.....   | Sept. 8, 1924        |
| Geo. W. Howland.....            | Feb. 21, 1894        | Charles Dalton.....    | Nov. 29, 1930        |
| P. A. McIntyre.....             | May 13, 1899         | George D. DeBlois..... | Dec. 28, 1933        |

**NINETEENTH MINISTRY.**

| Office.                                                                                  | Name.                              | Date of Appointment. |
|------------------------------------------------------------------------------------------|------------------------------------|----------------------|
| Premier, Provincial Secretary-Treasurer and Minister of Education and Public Health..... | Hon. William J. P. MacMillan, M.D. | Aug. 29, 1931        |
| Minister of Public Works and Highways.....                                               | Hon. G. Shelton Sharp.....         | Aug. 29, 1931        |
| Minister of Agriculture.....                                                             | Hon. Thomas McNutt.....            | Nov. 28, 1932        |
| Attorney and Advocate General.....                                                       | Hon. H. Francis McPhee, B.A.       | Aug. 29, 1931        |
| Minister without Portfolio.....                                                          | Hon. Adrian F. Arsenaault, B.A.    | Aug. 29, 1931        |
| Minister without Portfolio.....                                                          | Hon. Harry D. McLean.....          | Aug. 29, 1931        |
| Minister without Portfolio.....                                                          | Hon. Walter G. McKenzie.....       | Aug. 29, 1931        |
| Minister without Portfolio.....                                                          | Hon. Matthew W. Wood.....          | Aug. 29, 1931        |
| Minister without Portfolio.....                                                          | Hon. A. A. MacDonald, M.D.         | Oct. 14, 1933        |

**NOVA SCOTIA.**

**LIUTENANT-GOVERNORS.**

| Name.                              | Date of Appointment.       | Name.                   | Date of Appointment.       |
|------------------------------------|----------------------------|-------------------------|----------------------------|
| Lieut.-Gen. Sir W. F. Williams.... | July 1, 1867               | Alfred G. Jones.....    | Aug. 7, 1900               |
| Major-Gen. Sir C. Hastings Doyle   | Oct. 18, 1867              | Duncan C. Fraser.....   | Mar. 27, 1906              |
| Lieut.-Gen. Sir C. Hastings Doyle  | Jan. 31, 1868              | James D. MacGregor..... | Oct. 18, 1910              |
| Sir E. Kenny (acting).....         | May 31, 1870               | David MacKeen.....      | Oct. 19, 1915              |
| Joseph Howe.....                   | May 1, 1873                | McCallum Grant.....     | Nov. 29, 1916              |
| Sir. A. G. Archibald.....          | July 4, 1873               | McCallum Grant.....     | Mar. 21, 1922 <sup>1</sup> |
| Matthew Henry Richey.....          | July 4, 1883               | J. Robson Douglas.....  | Jan. 23, 1925              |
| A. W. McLelan.....                 | July 9, 1888               | James C. Tory.....      | Sept. 24, 1925             |
| Sir Malachy Bowes Daly.....        | July 11, 1890              | Frank Stanfield.....    | Dec. 2, 1930               |
| Sir Malachy Bowes Daly.....        | July 29, 1895 <sup>1</sup> | Walter H. Covert.....   | Oct. 5, 1931               |

<sup>1</sup>Second term.

**TWELFTH MINISTRY**

| Office.                                                                   | Name.                           | Date of Appointment. |
|---------------------------------------------------------------------------|---------------------------------|----------------------|
| Premier and President of Council, Provincial Secretary and Treasurer..... | Hon. Angus Lewis Macdonald..... | Sept. 5, 1933        |
| Attorney General.....                                                     | Hon. Josiah H. MacQuarrie.....  | Sept. 5, 1933        |
| Minister of Highways.....                                                 | Hon. A. Sterling MacMillan..... | Sept. 5, 1933        |
| Minister of Public Works and Mines and Minister of Labour.....            | Hon. Michael Dwyer.....         | Sept. 5, 1933        |
| Minister of Agriculture and Marketing.....                                | Hon. John A. McDonald.....      | Sept. 5, 1933        |
| Minister of Health.....                                                   | Hon. Frank R. Davis, M.D., C.M. | Sept. 5, 1933        |
| Minister without Portfolio.....                                           | Hon. Clarence W. Anderson.....  | Sept. 5, 1933        |
| Minister without Portfolio.....                                           | Hon. J. Willie Comeau.....      | Sept. 5, 1933        |

## 13.—Lieutenant-Governors of Provinces, 1867-1934, and Present Ministries—continued.

## NEW BRUNSWICK.

## LIEUTENANT-GOVERNORS.

| Name.                            | Date of Appointment. | Name.                     | Date of Appointment. |
|----------------------------------|----------------------|---------------------------|----------------------|
| Major-Gen. Sir C. Hastings Doyle | July 1, 1867         | A. R. McClellan           | Dec. 9, 1896         |
| Col. F. P. Harding               | Oct. 18, 1867        | Jabez B. Snowball         | Feb. 5, 1902         |
| L. A. Wilmot                     | July 14, 1868        | L. J. Tweedie             | Mar. 2, 1907         |
| Samuel Leonard Tilley            | Nov. 5, 1873         | Josiah Wood               | Mar. 6, 1912         |
| E. Baron Chandler                | July 16, 1878        | G. W. Ganong              | June 29, 1916        |
| Robert Duncan Wilmot             | Feb. 11, 1880        | William Pugsley           | Nov. 6, 1917         |
| Sir Samuel Leonard Tilley        | Oct. 31, 1885        | William F. Todd           | Feb. 24, 1923        |
| John Boyd                        | Sept. 21, 1893       | Major-Gen. Hugh H. McLean | Dec. 28, 1928        |
| John A. Fraser                   | Dec. 20, 1893        | Murray MacLaren           | Feb. 5, 1935         |

## NINETEENTH MINISTRY.

| Office.                        | Name.                  | Date of Appointment. |
|--------------------------------|------------------------|----------------------|
| Premier and Attorney General   | Hon. L. P. D. Tilley   | May 20, 1931         |
| President of Council           | Hon. G. H. I. Cockburn | June 1, 1933         |
| Minister of Public Works       | Hon. D. A. Stewart     | Sept. 14, 1925       |
| Provincial Secretary-Treasurer | Hon. A. J. Leger       | Sept. 14, 1925       |
| Minister of Lands and Mines    | Hon. L. P. D. Tilley   | May 20, 1931         |
| Minister of Agriculture        | Hon. Lewis Smith       | Sept. 14, 1925       |
| Minister of Health             | Hon. H. I. Taylor      | Sept. 14, 1925       |
| Minister without Portfolio     | Hon. E. A. Reilly      | Sept. 14, 1925       |
| Attorney General               | Hon. W. H. Harrison    | June 1, 1933         |

## QUEBEC.

## LIEUTENANT-GOVERNORS.

| Name.                    | Date of Appointment. | Name.                              | Date of Appointment. |
|--------------------------|----------------------|------------------------------------|----------------------|
| Sir N. F. Belleau        | July 1, 1867         | Sir Charles A. P. Pelletier        | Sept. 4, 1908        |
| Sir N. F. Belleau        | Jan. 31, 1868        | Sir François Langelier             | May 5, 1911          |
| Réné Edouard Caron       | Feb. 11, 1873        | Sir Pierre Evariste Leblanc        | Feb. 9, 1915         |
| Luc Letellier de St-Just | Dec. 15, 1876        | Right Hon. Sir Charles Fitzpatrick | Oct. 21, 1918        |
| Theodore Robitaille      | July 26, 1879        | L. P. Brodeur                      | Oct. 31, 1923        |
| L. F. R. Masson          | Nov. 7, 1884         | N. Perodeau                        | Jan. 8, 1924         |
| A. R. Angers             | Oct. 24, 1887        | Sir Lomer Gouin                    | Jan. 10, 1929        |
| Sir J. A. Chapleau       | Dec. 5, 1892         | H. G. Carroll                      | April 2, 1929        |
| L. A. Jetté              | Feb. 2, 1898         | E. Patenaude                       | May 3, 1934          |
| Sir L. A. Jetté          | Feb. 2, 1903         |                                    |                      |

<sup>1</sup> Second term.

## SIXTEENTH MINISTRY.

| Office.                                                                | Name.                 | Date of Appointment. |
|------------------------------------------------------------------------|-----------------------|----------------------|
| Premier, Attorney General, Minister of Municipal Affairs and Treasurer | Hon. L. A. Taschereau | July 9, 1920         |
| Minister of Agriculture                                                | Hon. A. Godbout       | Nov. 27, 1930        |
| Minister of Lands and Forests                                          | Hon. H. Mercier       | July 9, 1920         |
| Minister of Public Works                                               | Hon. J. N. Francoeur  | June 15, 1930        |
| Minister of Colonization and Game and Fisheries                        | Hon. Irénée Vautrin   | July 25, 1934        |
| Provincial Secretary and Registrar                                     | Hon. A. David         | July 9, 1920         |
| Minister of Roads and Mines                                            | Hon. J. Ed. Perrault  | April 24, 1929       |
| Minister of Labour                                                     | Hon. C.-A. Arcand     | Oct. 28, 1931        |
| Minister without Portfolio                                             | Hon. E. Moreau        | Sept. 27, 1921       |
| Minister without Portfolio                                             | Hon. L. Lapierre      | June 4, 1924         |
| Minister without Portfolio                                             | Hon. J. H. Dillon     | Jan. 10, 1927        |
| Minister without Portfolio                                             | Hon. Jacob Nicol      | July 25, 1934        |

13.—Lieutenant-Governors of Provinces, 1867-1934, and Present Ministries—continued.

ONTARIO.

LIEUTENANT-GOVERNORS.

| Name.                            | Date of Appointment. | Name.                             | Date of Appointment. |
|----------------------------------|----------------------|-----------------------------------|----------------------|
| Major-General H. W. Stisted..... | July 1, 1867         | Sir William Mortimer Clark.....   | April 20, 1903       |
| W. P. Howland.....               | July 14, 1868        | Sir John M. Gibson.....           | Sept. 22, 1908       |
| John W. Crawford.....            | Nov. 5, 1873         | Lt.-Col. Sir John S. Hendrie..... | Sept. 26, 1914       |
| D. A. Macdonald.....             | May 13, 1875         | Lionel H. Clarke.....             | Nov. 27, 1919        |
| John Beverly Robinson.....       | June 30, 1880        | Col. Henry Cockshutt.....         | Sept. 10, 1921       |
| Sir Alexander Campbell.....      | Feb. 8, 1887         | William Donald Ross.....          | Dec. 30, 1926        |
| Sir George A. Kirkpatrick.....   | May 30, 1892         | Col. Herbert Alexander Bruce..... | Oct. 25, 1932        |
| Sir Oliver Mowat.....            | Nov. 18, 1897        |                                   |                      |

ELEVENTH MINISTRY.

| Office.                                                    | Name.                               | Date of Appointment. |
|------------------------------------------------------------|-------------------------------------|----------------------|
| Premier and Provincial Treasurer.....                      | Hon. Mitchell F. Hepburn.....       | July 10, 1934        |
| Attorney General and Minister of Labour.....               | Hon. A. W. Roebuck, K.C.....        | July 10, 1934        |
| Minister of Education.....                                 | Hon. L. J. Simpson, M.D.....        | July 10, 1934        |
| Minister of Health.....                                    | Hon. James Faulkner, M.D., C.M..... | July 10, 1934        |
| Minister of Mines.....                                     | Hon. Paul Ledue.....                | July 10, 1934        |
| Minister of Public Works and Highways.....                 | Hon. Thomas McQuesten, LL.B.....    | July 10, 1934        |
| Minister of Lands and Forests.....                         | Hon. Peter Heenan.....              | July 10, 1934        |
| Minister of Welfare and Minister of Municipal Affairs..... | Hon. D. A. Croll.....               | July 10, 1934        |
| Minister of Agriculture.....                               | Hon. Duncan Marshall.....           | July 10, 1934        |
| Provincial Secretary and Registrar.....                    | Hon. H. C. Nixon.....               | July 10, 1934        |

MANITOBA.

LIEUTENANT-GOVERNORS.

| Name.                           | Date of Appointment. | Name.                        | Date of Appointment.      |
|---------------------------------|----------------------|------------------------------|---------------------------|
| A. G. Archibald.....            | May 20, 1870         | Sir D. H. McMillan.....      | May 11, 1906 <sup>1</sup> |
| Francis Goodschall Johnson..... | April 9, 1872        | Sir D. C. Cameron.....       | Aug. 1, 1911              |
| Alexander Morris.....           | Dec. 2, 1872         | Sir James A. M. Aikins.....  | Aug. 3, 1916              |
| Joseph Ed. Cauchon.....         | Dec. 2, 1877         | Sir James A. M. Aikins.....  | Aug. 7, 1921              |
| James C. Aikins.....            | Sept. 22, 1882       | Theodore A. Burrows.....     | Oct. 9, 1926              |
| J. C. Schultz.....              | July 1, 1888         | J. D. McGregor.....          | Jan. 25, 1929             |
| J. C. Patterson.....            | Sept. 2, 1895        | William Johnston Tupper..... | Nov. 17, 1934             |
| Sir D. H. McMillan.....         | Oct. 16, 1900        |                              |                           |

<sup>1</sup> Second term.

TWELFTH MINISTRY.

| Office.                                                                    | Name.                      | Date of Appointment.          |
|----------------------------------------------------------------------------|----------------------------|-------------------------------|
| Premier, President of the Council.....                                     | Hon. John Bracken.....     | Aug. 8, 1922<br>Jan. 12, 1925 |
| Attorney General and Minister of Telephones and Telegraphs.....            | Hon. W. J. Major, K.C..... | April 29, 1927                |
| Minister of Public Works and Labour.....                                   | Hon. W. R. Clubb.....      | Aug. 8, 1922                  |
| Municipal Commissioner, Provincial Secretary and Railway Commissioner..... | Hon. D. I. McLeod.....     | Aug. 8, 1922                  |
| Minister of Agriculture and Immigration.....                               | Hon. D. G. McKenzie.....   | May 27, 1932                  |
| Minister of Education.....                                                 | Hon. R. A. Hoey.....       | April 21, 1927                |
| Minister of Health and Public Welfare.....                                 | Hon. R. A. Hoey.....       | Oct. 14, 1932                 |
| Minister of Mines and Natural Resources.....                               | Hon. J. S. McDiarmid.....  | May 27, 1932                  |
| Provincial Treasurer.....                                                  | Hon. E. A. McPherson.....  | May 27, 1932                  |



**13.—Lieutenant-Governors of Provinces, 1867-1934, and Present Ministries—continued.****SASKATCHEWAN.****LIEUTENANT-GOVERNORS.**

| Name.                        | Date of Appointment. | Name.                              | Date of Appointment.       |
|------------------------------|----------------------|------------------------------------|----------------------------|
| A. E. Forget.....            | Sept. 1, 1905        | H. W. Newlands.....                | Feb. 17, 1921              |
| Geo. W. Brown.....           | Oct. 5, 1910         | H. W. Newlands.....                | Feb. 22, 1926 <sup>1</sup> |
| Sir Richard Stuart Lake..... | Oct. 6, 1915         | Lieut.-Col. H. E. Monroe, O.B.E... | Mar. 31, 1931              |

<sup>1</sup>Second term.**SIXTH MINISTRY.**

| Office.                                                                                                                                                              | Name.                       | Date of Appointment. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------|
| Premier, President of the Council and Provincial Treasurer.....                                                                                                      | Hon. J. G. Gardiner.....    | July 19, 1934        |
| Attorney General and Minister in Charge of the Loan Companies Act and Trust Companies Act.....                                                                       | Hon. T. C. Davis, K.C.....  | July 19, 1934        |
| Minister of Public Health and Provincial Secretary                                                                                                                   | Hon. J. M. Uhrich, M.D..... | July 19, 1934        |
| Minister of Education.....                                                                                                                                           | Hon. J. W. Estey, K.C.....  | July 19, 1934        |
| Minister of Agriculture.....                                                                                                                                         | Hon. J. G. Taggart.....     | July 19, 1934        |
| Minister of Municipal Affairs.....                                                                                                                                   | Hon. R. J. M. Parker.....   | July 19, 1934        |
| Minister of Natural Resources, Minister of Telephones and Minister in Charge of the Insurance Department.....                                                        | Hon. W. J. Patterson.....   | July 19, 1934        |
| Minister of Public Works and Minister of Railways, Labour and Industries.....                                                                                        | Hon. George Spence.....     | July 19, 1934        |
| Minister of Highways, and Minister in Charge of the Bureau of Child Protection and Old Age Pensions, the Bureau of Publications and the King's Printer's Office..... | Hon. C. M. Dunn.....        | July 19, 1934        |

**ALBERTA.****LIEUTENANT-GOVERNORS.**

| Name.                    | Date of Appointment.      | Name.                    | Date of Appointment.       |
|--------------------------|---------------------------|--------------------------|----------------------------|
| George H. V. Bulyea..... | Sept. 1, 1905             | Robert George Brett..... | Oct. 20, 1920 <sup>1</sup> |
| George H. V. Bulyea..... | Oct. 5, 1910 <sup>1</sup> | William Egbert.....      | Oct. 20, 1925              |
| Robert George Brett..... | Oct. 6, 1915              | William L. Walsh.....    | April 24, 1931             |

<sup>1</sup>Second term.**SIXTH MINISTRY.**

| Office.                                                             | Name.                    | Date of Appointment. |
|---------------------------------------------------------------------|--------------------------|----------------------|
| Premier and Provincial Secretary.....                               | Hon. R. G. Reid.....     | July 10, 1934        |
| Attorney General.....                                               | Hon. J. F. Lymburn.....  | July 10, 1934        |
| Provincial Treasurer.....                                           | Hon. J. R. Love.....     | July 10, 1934        |
| Minister of Lands and Mines, and Minister of Municipal Affairs..... | Hon. Hugh Allen.....     | July 10, 1934        |
| Minister of Agriculture.....                                        | Hon. F. S. Grisdale..... | July 10, 1934        |
| Minister of Health, and Minister of Railways and Telephones.....    | Hon. Geo. Hoadley.....   | July 10, 1934        |
| Minister of Public Works.....                                       | Hon. J. J. McLellan..... | July 10, 1934        |
| Minister of Education.....                                          | Hon. Perren Baker.....   | July 10, 1934        |
| Minister without Portfolio.....                                     | Hon. Irene Farby.....    | July 10, 1934        |

13.—Lieutenant-Governors of Provinces, 1867-1934, and Present Ministries—concluded.

BRITISH COLUMBIA.

LIEUTENANT-GOVERNORS.

| Name.                                | Date of Appointment. | Name.                      | Date of Appointment. |
|--------------------------------------|----------------------|----------------------------|----------------------|
| J. W. Trutch.....                    | July 20, 1871        | James Dunsmuir.....        | May 11, 1906         |
| Albert Norton Richards.....          | July 20, 1876        | T. W. Paterson.....        | Dec. 3, 1909         |
| Clement F. Cornwall.....             | July 20, 1881        | Sir Frank S. Barnard.....  | Dec. 5, 1914         |
| Hugh Nelson.....                     | Feb. 8, 1887         | Col. Edward G. Prior.....  | Dec. 9, 1919         |
| Edgar Dewdney.....                   | Nov. 1, 1892         | Walter C. Nichol.....      | Dec. 24, 1920        |
| Thomas R. McInnes.....               | Nov. 18, 1897        | R. Randolph Bruce.....     | Jan. 21, 1926        |
| Sir Henry G. Joly de Lotbinière..... | June 21, 1900        | J. W. Fordham Johnson..... | Aug. 1, 1931         |

TWENTY-SECOND MINISTRY.

| Office.                                                                | Name.                      | Date of Appointment. |
|------------------------------------------------------------------------|----------------------------|----------------------|
| Premier, Minister of Railways, and President of Executive Council..... | Hon. T. D. Pattullo.....   | Nov. 15, 1933        |
| Minister of Finance and Industries.....                                | Hon. John Hart.....        | Nov. 15, 1933        |
| Provincial Secretary and Minister of Education.....                    | Hon. G. M. Weir.....       | Nov. 15, 1933        |
| Attorney General.....                                                  | Hon. G. McG. Sloan.....    | Nov. 15, 1933        |
| Minister of Lands and Municipalities.....                              | Hon. A. Wells Gray.....    | Nov. 15, 1933        |
| Minister of Agriculture.....                                           | Hon. K. C. MacDonald.....  | Nov. 15, 1933        |
| Minister of Mines and Labour, and Commissioner of Fisheries.....       | Hon. G. S. Pearson.....    | Nov. 15, 1933        |
| Minister of Public Works.....                                          | Hon. F. M. MacPherson..... | Nov. 15, 1933        |

THE TERRITORIES.

NOTE.—In 1883 the districts of Alberta, Assiniboia, Athabaska and Saskatchewan, then called the Northwest Territories, with their capital at Regina, were given local responsible government, and the old Northwest Council was replaced by the Northwest Legislature, which existed until Aug. 31, 1905. When the area included in these districts was formed into the provinces of Alberta and Saskatchewan, on Sept. 1, 1905, these provinces were given systems of government similar to the other provinces of the Dominion. The remaining areas (Yukon and the provisional districts of Franklin, Keewatin and Mackenzie) are now administered by the Lands, Northwest Territories and Yukon Branch, Department of the Interior. The Deputy Minister of the Department is, *ex officio*, the Commissioner of the Northwest Territories which comprises the three provisional districts.

LIEUTENANT-GOVERNORS.

| Name.                          | Date of Appointment. | Name.                 | Date of Appointment.       |
|--------------------------------|----------------------|-----------------------|----------------------------|
| A. G. Archibald.....           | May 10, 1870         | Joseph Royal.....     | July 1, 1888               |
| Francis GoodschaU Johnson..... | April 9, 1872        | C. H. Mackintosh..... | Oct. 31, 1893              |
| Alexander Morris.....          | Dec. 2, 1872         | M. C. Cameron.....    | May 30, 1898               |
| David Laird.....               | Oct. 7, 1876         | A. E. Forget.....     | Oct. 11, 1898              |
| Edgar Dewdney.....             | Dec. 3, 1881         | A. E. Forget.....     | Mar. 30, 1904 <sup>1</sup> |

<sup>1</sup>Second term.

PART IV.—REPRESENTATIVES IN OTHER COUNTRIES.\*

Section 1.—Representatives within the Empire.

The policy of the early North American colonies, of maintaining in London accredited representatives for business and diplomatic purposes, was recognized in the eighteenth century as being a more satisfactory means of communication

\*Revised by the Department of External Affairs, Ottawa.

with the British Government than that provided by occasional official visits or by correspondence. Edmund Burke, the noted British statesman, held the position of agent for the colony of New York for some years following 1771. Of the Canadian colonies, Nova Scotia was the first to adopt this plan, its Legislature having appointed an agent in London in 1761. New Brunswick was similarly represented in 1786, Upper Canada as early as 1794, Lower Canada in 1812 and British Columbia in 1857. Following Confederation, several of the provinces continued to adhere to, and in certain cases enlarge upon, the practice to the extent of themselves appointing Crown Agents or Agents General. Such developments as have taken place are dealt with in the following paragraphs.

*Prince Edward Island.*—Prince Edward Island appointed its first official Agent General to London, England, by Order in Council of May 14, 1902. The appointee held office until his resignation on Aug. 17, 1917. Since 1917, the province has been without an Agent General in England or elsewhere.

*Nova Scotia.*—The first Agent General from Nova Scotia was appointed on Oct. 24, 1885, by Order in Council. This appointment was honorary but later the Legislature estimated for a salary to be paid. The office has never been abolished, although the last appointee died in 1929 and, since the end of the fiscal year 1932 no estimate has been made by the Legislature for remuneration or other expenses in connection with the office.

*New Brunswick.*—A London office was opened by the province of New Brunswick on April 6, 1887. The last appointee to the position of Agent died in 1920; no successor was appointed and the office was then closed.

*Quebec.*—This province appointed its first "Agent-General for the Province [of Quebec] in the United Kingdom of Great Britain and Ireland" on Aug. 7, 1911, although legislative action had been taken to establish the office in 1908, the Act being declared to come into force by proclamation. The office of Agent General of Quebec has not been abolished and is still functioning. The Agent General is located in London.

*Ontario.*—In 1872 the Ontario Government had Agents established in various important centres in England and also in Scotland and Ireland, in connection with immigration matters. Later all these, excepting the Agent at London, were withdrawn. It is only during the past fifteen or twenty years, however, that the term "Agent General" has been used in connection with the London appointee. The London office was closed on Aug. 31, 1934.

*Manitoba.*—The Provincial Government of Manitoba has never had an Agent or Agent General in London.

*Saskatchewan.*—The province of Saskatchewan is represented by one of its government officials in Canada House, but has never established its own headquarters nor the office of Agent General.

*Alberta.*—The office of the Agent General for the province of Alberta was established in London on Feb. 2, 1927, by order of the Lieutenant-Governor in Council. The office was abolished on Aug. 31, 1933.

*British Columbia.*—By the Agent General Act, 1901, (B.C. I Ed. VII, c. 1) assented to on May 11 of that year, the office of Agent General for British Columbia, was established, and London was made the seat of this official representative.



**The High Commissioner for Canada.**—With the federation of the provinces of British North America in 1867, a new political entity which could not avail itself of the services of the provincial agents was brought into existence. To supplement the ordinary method of communication between the Canadian and British Governments (which at that time was by correspondence between the Governor General and the Secretary of State for the Colonies, and is now between the Secretary of State for External Affairs of Canada and the Secretary of State for Dominion Affairs in London), the position of High Commissioner for Canada was created in 1880 (see R.S.C. 1927, c. 92). The duties of the office are defined in the Act as follows:—

“The High Commissioner shall—

- “(a) act as representative and resident agent of Canada in Great Britain and in that capacity, execute such powers and perform such duties as are, from time to time, conferred upon and assigned to him by the Governor in Council;
- “(b) take the charge, supervision and control of the immigration offices and agencies in Great Britain, under the Minister of Immigration and Colonization;
- “(c) carry out such instructions as he, from time to time, receives from the Governor in Council respecting the commercial, financial and general interests of Canada in Great Britain and elsewhere.”

Sir Alexander Galt was the first Canadian High Commissioner, holding office from May 11, 1880, until May, 1883; in 1884 he was succeeded by Sir Charles Tupper. Lord Strathcona and Mount Royal was appointed in 1896. Sir George H. Perley took charge of the High Commissioner's Office in 1914 but was appointed High Commissioner only on Oct. 12, 1917. The Hon. P. C. Larkin was appointed in February, 1922, and after his decease (Feb. 3, 1930) the Hon. G. Howard Ferguson was appointed on Nov. 28, 1930. The office of the High Commissioner for Canada is in Canada House, Trafalgar Square, London, S.W. 1.

**High Commissioner of the United Kingdom in Canada.**—His Majesty's Government in the United Kingdom appointed in April, 1928, a High Commissioner in Canada, Sir William H. Clark, who was succeeded in January, 1935, by Sir Francis Floud, K.C.B. The High Commissioner resides in Ottawa, and his position corresponds to that of the High Commissioner for Canada in the United Kingdom. This appointment was made in consequence of discussions at the Imperial Conference of 1926. The relevant passage in the report of the Inter-Imperial Relations Committee runs as follows:—

“A special aspect of the question of consultation which we considered was that concerning the representation of Great Britain in the Dominions. By reason of his constitutional position, as explained in Section IV (b) of this report, the Governor General is no longer the representative of His Majesty's Government in Great Britain. There is no one therefore in the Dominion capitals in a position to represent with authority the views of His Majesty's Government in Great Britain.

“We summed up our conclusions in the following resolution which is submitted for the consideration of the Conference:—

“The Governments represented at the Imperial Conference are impressed with the desirability of developing a system of personal contact, both in London and in the Dominion capitals, to supplement the present system of intercommunication and the reciprocal supply of information on affairs requiring joint consideration. The manner in which any new system is to be worked out is a matter for consideration and settlement between His Majesty's Governments in Great Britain and the Dominions, with due regard to the circumstances of

each particular part of the Empire, it being understood that any new arrangements should be supplementary to, and not in replacement of, the system of direct communication from Government to Government and the special arrangements which have been in force since 1918 for communications between Prime Ministers' ”.

## Section 2.—Representatives outside the Empire.

**The Canadian Minister to the United States.**—For many years the diplomatic business between Canada and the United States has been steadily increasing, as the natural result of the proximity of the two countries and the closeness of the business relationships between their citizens. Before the Great War a former British Ambassador at Washington, Lord Bryce, said that between two-thirds and three-quarters of the work of the British Embassy in the United States was occasioned by Canadian affairs.

In January, 1918, a temporary Canadian War Mission was established at Washington under the chairmanship of Mr. Lloyd Harris, and was maintained for some years after the close of the War. Though not a formal diplomatic mission, its duties extended to questions usually dealt with through diplomatic channels. After the retirement of this mission Canada was represented in Washington by Mr. M. M. Mahoney, who acted as agent of the Department of External Affairs, and, through the courtesy of the British Government, occupied an office at the British Embassy.

In 1920, following discussions between the British and Canadian Governments, it was announced that agreement had been reached upon the appointment of a Canadian Minister at Washington, who would act for the British Ambassador in the latter's absence. No appointment was made until Nov. 26, 1926, when, after decision to omit the arrangement that the Canadian Minister should substitute for the British Ambassador, Hon. Vincent Massey was appointed as His Majesty's Envoy Extraordinary and Minister Plenipotentiary in the United States of America to represent the interests of the Dominion of Canada. Mr. Massey took up his duties in February, 1927, and held office until July 23, 1930. Hon. W. D. Herridge was appointed Minister to the United States on Mar. 7, 1931. The Canadian Legation in Washington is situated at 1746 Massachusetts Ave.

The United States Government reciprocated in 1927 by appointing Hon. William Phillips its first Minister to Canada; his successor, Hon. Hanford MacNider, was appointed in August, 1930, and resigned in September, 1932. The United States Minister in Ottawa is now the Hon. W. D. Robbins, appointed in May, 1933.

**The Canadian Minister to France.**—For many years the Canadian Government maintained an agency at Paris. The post was first occupied in 1882 by Hon. Hector Fabre, who also represented for a time the Government of Quebec. After his death Hon. Philippe Roy was appointed in May, 1911, with the title of Commissioner-General of Canada in France. In 1928 an exchange of Ministers was agreed upon between Canada and France, and in September of that year Hon. Philippe Roy was appointed as His Majesty's Envoy Extraordinary and Minister Plenipotentiary in France to represent the interests of the Dominion of Canada. The Canadian Legation in Paris is situated at No. 1, rue François premier.

The French Government appointed M. Georges Jean Knight as its first Minister in Canada in 1928. From March, 1931, to September, 1934, M. Charles Arsène Henry was Minister. He was succeeded in September, 1934, by M. R. Brugère.

**The Canadian Minister to Japan.**—In 1928 an exchange of Ministers was agreed upon between the Governments of Canada and Japan, and Hon. H. M. Marler was appointed in 1929 as His Majesty's Envoy Extraordinary and Minister Plenipotentiary in Japan to represent the interests of the Dominion of Canada. The Canadian Legation is at 16 Omote-Cho, Sanchome, Akasaka-Ku, Tokyo.

The Japanese Government appointed Mr. Iyemasa Tokugawa as its first Minister in Canada in 1929. Mr. Tokugawa presented his Letters of Recall towards the close of 1934. A successor has not yet (Mar. 1, 1935), been appointed.

**Canadian Advisory Officer, League of Nations.**—The practice of appointing permanent representatives at Geneva accredited to the League of Nations has been largely followed by those nations which are situated at a distance from Geneva. It was found that, while countries adjacent to the seat of the League were able without difficulty to include in the personnel of their delegations to the Assembly and Council various advisors and assistants at a minimum of expense, distant countries were at a disadvantage in this respect. Canada's duties as a member of the Assembly and of the International Labour Conference, and as one of the countries represented on the Governing Body of the International Labour Office, made this disadvantage especially felt. Accordingly, the position of Dominion of Canada Advisory Officer, League of Nations, was created by Order in Council P.C. 2174 of Dec. 17, 1924, and Dr. W. A. Riddell was appointed to the post on Jan. 1, 1925.

The duties of the Canadian Advisory Officer are "to establish and maintain as close relations as possible with the Secretariats of the League of Nations and the International Labour Office", to "communicate with the Government of Canada as to all matters arising and requiring its attention", and to "act in all such matters in an advisory capacity to the Government of Canada and to delegates from the Government of Canada to conferences arising out of the organizations before-named". The office of the Canadian Advisory Officer is situated at 41, Quai Wilson, Geneva.

## PART V.—CANADA AND THE LEAGUE OF NATIONS.\*

The League of Nations is an association of fully self-governing States whose relations are governed by the Covenant. The League of Nations acts through an Assembly and Council composed of representatives of Governments. Sixty States are at present Members of the League, as compared with forty-two at the time of the first Assembly in 1920. Canada, as a signatory of the Treaties of Peace, is an original Member of the League.

The League of Nations has two aims: (1) to preserve peace and to seek a settlement of international disputes; and (2) to organize in the most varied spheres co-operation of peoples, with a view to the material and moral welfare of humanity.

The Covenant, which constitutes the fundamental charter of the League of

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\*Prepared by N. A. Robertson, Department of External Affairs. A fuller article on Canada and the League of Nations, contributed by Mr. N. A. Robertson of the Department of External Affairs to the 1931 Year Book, gave information regarding the budget of the League, mandates, minorities, the economic and financial organization, the organization for communications and transit, the health organization and social and humanitarian work of the League, in addition to fuller treatment of the subjects here dealt with. This article appeared at pp. 115-22 of the 1931 Year Book. The League of Nations Society in Canada, 124 Wellington St., Ottawa, is the authorized agent for the publications of the League of Nations.



Nations, was formed in 1919 by a Commission set up for the purpose, which drew up the twenty-six articles of which it is composed. The Covenant was inserted at the head of the several Treaties of Peace and came into force on Jan. 10, 1920.

**The Organs of the League.**—The organs of the League are:—

- (a) The Assembly;
- (b) The Council;
- (c) The Secretariat;
- (d) The International Labour Organization; (see Chapter XIX).
- (e) The Permanent Court of International Justice.

*The Assembly.*—The Assembly consists of representatives of the members of the League, and meets annually in regular session each September in Geneva. At the 15th Assembly in September, 1934, the Canadian Delegation was headed by the Rt. Hon. R. B. Bennett, Prime Minister and Secretary of State for External Affairs.

*The Council.*—The Council, which originally consisted of five permanent members and four non-permanent members, now consists of six permanent members (the British Empire, France, Italy, Germany,\* Japan† and the U.S.S.R.) together with ten non-permanent members elected for three years (three retiring each year) from among the sixty States which are Members of the League. The non-permanent members of the Council are at present as follows: Czechoslovakia, the United States of Mexico and Poland, terms expiring 1935; Argentine Republic, Australia, Denmark and Portugal, terms expiring 1936; Chile, Spain and Turkey, terms expiring 1937. Canada was a member of the Council of the League from 1927 to 1930.

The Council, which normally meets four times a year and more frequently if circumstances should require it to do so, may deal at its meetings with any matter within the sphere of action of the League or affecting the peace of the world.

*The Secretariat.*—The Permanent Secretariat represents the Civil Service of the League. The staff is appointed by the Secretary General with the approval of the Council. The officials of the Secretariat of the League are exclusively international officials, having international and not national duties. The first Secretary General, Sir Eric Drummond, who was named in the Annex to the Covenant, resigned in 1933 and was succeeded by M. Joseph Avenol, who is assisted by two Deputy Secretaries General (one Spanish and one Italian) and by one Under-Secretary General (British).

*Permanent Court of International Justice.*—The Permanent Court of International Justice was established by the Protocol of Dec. 16, 1920, in accordance with Article 14 of the Covenant of the League of Nations. It is composed of a body of fifteen judges elected by the Assembly and Council of the League of Nations for a term of nine years, and sits at the Hague. The Court is competent to hear and determine any dispute of an international character which the parties thereto submit to it; it may also give an advisory opinion upon any dispute or question referred to it by the Council or the Assembly. Article 36 of the Statute of the Court provides that any State may recognize as compulsory the jurisdiction of the Court in all or any classes of legal dispute concerning:—

For footnotes see end of article, p. 97.

(a) The interpretation of a Treaty.

(b) Any question of international law.

(c) The existence of any fact which, if established, would constitute a breach of an international obligation, and the nature and extent of the reparations to be made for the breach of the international obligation.

Canada has been a Member of the Court from its establishment, and in 1929 accepted, subject to certain reservations, the compulsory jurisdiction of the Court in the cases contemplated in Article 36.

**The Budget of the League.**—The expenditure of the League is covered by the contributions of States Members which are fixed in accordance with a scale which takes into account the population, area and public revenue of each State concerned. The Budget for the year 1934 was 30,827,805 gold francs, of which 20,031,102 francs were for the work of the Assembly, Council and Secretariat, 8,257,576 francs for the International Labour Office, and 2,538,827 for the Permanent Court of International Justice. Canada's share of this outlay assessed at 35/1013 of the total was 1,065,126.55 francs gold, or 205,569.42 dollars gold.

**Membership of the League of Nations.**—The 60 States which are Members of the League (November, 1934), are as follows:—

|                       |                         |                     |
|-----------------------|-------------------------|---------------------|
| Abyssinia             | Estonia                 | New Zealand         |
| Afghanistan           | Finland                 | Nicaragua           |
| Union of South Africa | France                  | Norway              |
| Albania               | Germany*                | Panama              |
| Argentine Republic    | Greece                  | Paraguay†           |
| Australia             | Guatemala               | Persia              |
| Austria               | Haiti                   | Peru                |
| Belgium               | Honduras                | Poland              |
| Bolivia               | Hungary                 | Portugal            |
| British Empire        | India                   | Roumania            |
| Bulgaria              | Iraq                    | Salvador            |
| Canada                | Irish Free State        | Siam                |
| Chile                 | Italy                   | Union of Soviet     |
| China                 | Japan†                  | Socialist Republics |
| Colombia              | Latvia                  | Spain               |
| Cuba                  | Liberia                 | Sweden              |
| Czechoslovakia        | Lithuania               | Switzerland         |
| Denmark               | Luxemburg               | Turkey              |
| Dominican Republic    | United States of Mexico | Uruguay             |
| Ecuador               | Netherlands             | Venezuela           |
|                       |                         | Yugoslavia          |

\*By a letter received on Oct. 21, 1933, Germany gave notice of her intention to withdraw from the League of Nations, in accordance with Article 1, paragraph 3, of the Covenant, which provides that after two years' notice a Member which has discharged its international obligations and other obligations under the Covenant, may withdraw from the League.

†By a telegram received Mar. 27, 1933, Japan gave notice of her intention to withdraw from the League of Nations, in accordance with Article 1, paragraph 3, of the Covenant.

‡By a telegram sent May 23, 1934, Paraguay gave notice of her intention to withdraw from the League of Nations, in accordance with Article 1, paragraph 3, of the Covenant.

## CHAPTER IV.—POPULATION.\*

The Population chapter of the Year Book is a *précis* of the results of investigations into the number and the constitution of the population made in the seven censuses of Canada since Confederation, summarizing the growth and distribution of population between 1871 and 1931, as shown by the successive decennial censuses, in regard to the chief matters investigated at the censuses.

The modern census, now established in all civilized countries as the chief method of measuring periodically the population and its social and economic condition, has been described by a modern United States' writer as the greatest single peace-time activity in which a government engages, both in respect of the physical extent of its organization and the important part which its results play in the general administration of public affairs.

Under the Canadian constitution, the legal *raison d'être* of the census is to determine representation in the House of Commons; after each decennial census a redistribution of seats in the House, following the course of the movement of population, is made in the manner described on pp. 74-77 of this volume. But the census, especially since the introduction of methods of mechanical tabulation, has become far more than a mere counting of heads. It is a great periodical stock-taking of the people and their affairs, designed to show as fully as possible the stage which has been reached in the progress of the nation. Thus the numbers, local distribution, age, sex, racial origin, nationality, language, religion, education, housing and occupations of the people, severally, constitute investigations of enormous importance, to which all the continuous and routine statistics collected in the ordinary course of administration must be related if their importance is to be realized. The census, in fine, rounds out and completes the scheme of information upon which the Government relies in conducting the business of the country.

On account of the requirements as to parliamentary representation and the payment of provincial subsidies, which are based on population, the Canadian census is taken on the *de jure* principle; *i.e.*, each person is counted as belonging to the locality in which he is regularly domiciled, irrespective of where he may be at the date of the enumeration. Under the *de facto* method, adopted in the United Kingdom, each individual is counted as belonging to the locality where he is found on the census date. The *de facto* method is undoubtedly simpler, but the *de jure* plan better portrays the permanent condition of the population. The chief difficulty in the application of the latter method is found in connection with holiday resorts, in the segregation of "visitors" and the tracing of "absentees". A date prior to the opening of the holiday season is accordingly chosen for the date of the census. In the Canadian census, students and inmates of hospitals are assigned to their home localities, while inmates of prisons, jails, lunatic asylums, etc., are counted where found.

### Section 1.—Census Statistics of General Population.

Since the creation of the Dominion of Canada, in 1867, decennial censuses have been taken on the *de jure* plan as of the dates April 2, 1871, April 4, 1881, April 5, 1891, April 1, 1901, June 1, 1911, 1921, and 1931. The population of Canada and its percentage distribution as on each date, together with the absolute and percentage increases from decade to decade, are given in Tables 1 to 4 immediately following.

\*This chapter has been revised by A. J. Pelletier, Chief, Demography Branch, Dominion Bureau of Statistics. A list of the publications of this branch will be found in Chapter XXIX, Section I, under "Population".



### 1.—Population of Canada, by Provinces and Territories, in the Census Years 1871 to 1931.<sup>1</sup>

| Province or Territory.                   | 1871.            | 1881.            | 1891.            | 1901.            | 1911.                  | 1921.                        | 1931.             |
|------------------------------------------|------------------|------------------|------------------|------------------|------------------------|------------------------------|-------------------|
|                                          | No.              | No.              | No.              | No.              | No.                    | No.                          | No.               |
| Prince Edward Island.....                | 94,021           | 108,891          | 109,078          | 103,259          | 93,728                 | 88,615                       | 88,038            |
| Nova Scotia.....                         | 387,800          | 440,572          | 450,396          | 459,574          | 492,338                | 523,837                      | 512,846           |
| New Brunswick.....                       | 285,594          | 321,233          | 321,263          | 331,120          | 351,889                | 387,876                      | 408,219           |
| Quebec.....                              | 1,191,516        | 1,359,027        | 1,488,535        | 1,648,898        | 2,005,776 <sup>2</sup> | 2,360,665 <sup>2</sup>       | 2,874,255         |
| Ontario.....                             | 1,620,851        | 1,926,922        | 2,114,321        | 2,182,947        | 2,527,292 <sup>2</sup> | 2,933,662                    | 3,431,683         |
| Manitoba.....                            | 25,228           | 62,260           | 152,506          | 255,211          | 461,394 <sup>2</sup>   | 610,118                      | 700,139           |
| Saskatchewan.....                        | —                | —                | —                | 91,279           | 492,432                | 757,510                      | 921,785           |
| Alberta.....                             | —                | —                | —                | 73,022           | 374,295 <sup>2</sup>   | 588,454                      | 731,605           |
| British Columbia.....                    | 36,247           | 49,459           | 98,173           | 178,657          | 392,480                | 524,582                      | 694,263           |
| Yukon.....                               | —                | —                | —                | 27,219           | 8,512                  | 4,157                        | 4,230             |
| Northwest Territories <sup>3</sup> ..... | 48,000           | 56,446           | 98,967           | 20,129           | 6,507 <sup>2</sup>     | 7,988                        | 9,723             |
| Royal Canadian Navy.....                 | —                | —                | —                | —                | —                      | 485                          | —                 |
| <b>Totals.....</b>                       | <b>3,689,257</b> | <b>4,324,810</b> | <b>4,833,239</b> | <b>5,371,315</b> | <b>7,206,643</b>       | <b>8,787,949<sup>2</sup></b> | <b>10,376,786</b> |

### 2.—Percentage Distribution of Canadian Population, by Provinces and Territories, 1871 to 1931.

| Province or Territory.                   | 1871.        | 1881.        | 1891.        | 1901.        | 1911.        | 1921.        | 1931.        |
|------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                          | p.c.         | p.c.         | p.c.         | p.c.         | p.c.         | p.c.         | p.c.         |
| Prince Edward Island.....                | 2.55         | 2.52         | 2.25         | 1.92         | 1.30         | 1.01         | 0.85         |
| Nova Scotia.....                         | 10.51        | 10.19        | 9.32         | 8.56         | 6.83         | 5.96         | 4.94         |
| New Brunswick.....                       | 7.74         | 7.43         | 6.65         | 6.16         | 4.88         | 4.41         | 3.94         |
| Quebec.....                              | 32.30        | 31.42        | 30.80        | 30.70        | 27.83        | 26.86        | 27.70        |
| Ontario.....                             | 43.94        | 44.56        | 43.74        | 40.64        | 35.07        | 33.38        | 33.07        |
| Manitoba.....                            | 0.68         | 1.44         | 3.16         | 4.75         | 6.40         | 6.94         | 6.75         |
| Saskatchewan.....                        | —            | —            | —            | 1.70         | 6.84         | 8.62         | 8.88         |
| Alberta.....                             | —            | —            | —            | 1.36         | 5.19         | 6.70         | 7.05         |
| British Columbia.....                    | 0.98         | 1.14         | 2.03         | 3.33         | 5.45         | 5.97         | 6.69         |
| Yukon.....                               | —            | —            | —            | 0.51         | 0.12         | 0.05         | 0.04         |
| Northwest Territories <sup>3</sup> ..... | 1.30         | 1.30         | 2.05         | 0.37         | 0.09         | 0.09         | 0.09         |
| <b>Totals.....</b>                       | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> |

### 3.—Population of Canada, by Provinces and Territories, in 1871 and 1931, Numerical Increase in each Decade from 1871 to 1931 and Total Increase.

| Province or Territory.    | Popula-<br>tion<br>in<br>1871. | Increase in each Decade from 1871 to 1931. |                     |                     |                     |                              |                     | Popula-<br>tion<br>in<br>1931. | Increase,<br>1871<br>to<br>1931. |
|---------------------------|--------------------------------|--------------------------------------------|---------------------|---------------------|---------------------|------------------------------|---------------------|--------------------------------|----------------------------------|
|                           |                                | 1871<br>to<br>1881.                        | 1881<br>to<br>1891. | 1891<br>to<br>1901. | 1901<br>to<br>1911. | 1911<br>to<br>1921.          | 1921<br>to<br>1931. |                                |                                  |
|                           | No.                            | No.                                        | No.                 | No.                 | No.                 | No.                          | No.                 | No.                            | No.                              |
| P.E. Island.....          | 94,021                         | 14,870                                     | 187                 | -5,819              | -9,531              | -5,113                       | -577                | 88,038                         | -5,983                           |
| N.S.....                  | 387,800                        | 52,772                                     | 9,824               | 9,178               | 32,764              | 31,499                       | -10,991             | 512,846                        | 125,046                          |
| N.B.....                  | 285,594                        | 35,639                                     | 30                  | 9,857               | 20,789              | 35,987                       | 20,343              | 408,219                        | 122,625                          |
| Que.....                  | 1,191,516                      | 167,511                                    | 129,508             | 160,363             | 356,878             | 354,889 <sup>4</sup>         | 513,590             | 2,874,255                      | 1,682,739                        |
| Ont.....                  | 1,620,851                      | 306,071                                    | 187,399             | 68,626              | 344,345             | 406,370                      | 498,021             | 3,431,683                      | 1,810,832                        |
| Man.....                  | 25,228                         | 37,032                                     | 90,246              | 102,705             | 206,183             | 148,724                      | 90,021              | 700,139                        | 674,911                          |
| Sask.....                 | —                              | —                                          | —                   | 91,279              | 401,153             | 265,078                      | 164,275             | 921,785                        | 921,785                          |
| Alta.....                 | —                              | —                                          | —                   | 73,022              | 301,273             | 214,159                      | 143,151             | 731,605                        | 731,605                          |
| B.C.....                  | 36,247                         | 13,212                                     | 48,714              | 80,484              | 213,823             | 132,102                      | 169,681             | 694,263                        | 658,016                          |
| Yukon.....                | —                              | —                                          | —                   | 27,219              | -18,707             | -4,355                       | 73                  | 4,230                          | 4,230                            |
| N.W.T. <sup>4</sup> ..... | 48,000                         | 8,446                                      | 42,521              | -78,838             | -13,622             | 1,481                        | 1,735               | 9,723                          | -38,277                          |
| Royal Cdn. Navy.....      | —                              | —                                          | —                   | —                   | —                   | 485                          | —                   | —                              | —                                |
| <b>Totals.....</b>        | <b>3,689,257</b>               | <b>635,553</b>                             | <b>508,429</b>      | <b>538,076</b>      | <b>1,835,323</b>    | <b>1,531,306<sup>5</sup></b> | <b>1,588,837</b>    | <b>10,376,786</b>              | <b>6,687,529</b>                 |

<sup>1</sup>The population of the Prairie Provinces in 1906, 1916 and 1926 is shown on pp. 127-128 of the 1930 Year Book. For intercensal estimated populations, see Table 50, p. 164. <sup>2</sup>Corrected as a result of the Extension of Boundaries Act, 1912. <sup>3</sup>Corrected by transfer of population of Fort Smith (368) to Northwest Territories. <sup>4</sup>The decreases shown in the population of the Northwest Territories since 1891 are due to the separation therefrom of vast areas to form Alberta, Saskatchewan and Yukon and to extend the boundaries of Quebec, Ontario and Manitoba. <sup>5</sup>Revised in accordance with the Labrador award of the Privy Council, Mar. 1, 1927. <sup>6</sup>Members of the Royal Canadian Navy were counted in their homes in the Census of 1931.

**4.—Population of Canada, by Provinces and Territories, in 1871, and Increase Per Cent, by Decades, from 1871 to 1931.**

| Province or Territory.                   | Population in 1871. | Increase per cent, by Decades, from 1871 to 1931. |               |               |               |                          |               | Increase per cent in 60 Years. |
|------------------------------------------|---------------------|---------------------------------------------------|---------------|---------------|---------------|--------------------------|---------------|--------------------------------|
|                                          |                     | 1871 to 1881.                                     | 1881 to 1891. | 1891 to 1901. | 1901 to 1911. | 1911 to 1921.            | 1921 to 1931. |                                |
|                                          | No.                 | p.c.                                              | p.c.          | p.c.          | p.c.          | p.c.                     | p.c.          | p. c.                          |
| Prince Edward Island.....                | 94,021              | 15.82                                             | 0.17          | -5.33         | -9.23         | -5.46                    | -0.65         | -6.36                          |
| Nova Scotia.....                         | 387,800             | 13.61                                             | 2.23          | 2.04          | 7.13          | 6.40                     | -2.10         | 32.24                          |
| New Brunswick.....                       | 285,594             | 12.48                                             | 0.01          | 3.07          | 6.27          | 10.23                    | 5.24          | 42.94                          |
| Quebec.....                              | 1,191,516           | 14.06                                             | 9.53          | 10.77         | 21.64         | 17.69 <sup>2</sup>       | 21.76         | 141.23                         |
| Ontario.....                             | 1,620,851           | 18.88                                             | 9.73          | 3.25          | 15.77         | 16.08                    | 16.98         | 111.72                         |
| Manitoba.....                            | 25,228              | 146.79                                            | 144.95        | 67.34         | 80.79         | 32.23                    | 14.75         | 2,675.25                       |
| Saskatchewan.....                        | —                   | —                                                 | —             | —             | 439.48        | 63.83                    | 21.69         | —                              |
| Alberta.....                             | —                   | —                                                 | —             | —             | 412.58        | 57.22                    | 24.33         | —                              |
| British Columbia.....                    | 36,247              | 36.45                                             | 98.49         | 81.98         | 119.68        | 33.66                    | 32.35         | 1,815.37                       |
| Yukon.....                               | —                   | —                                                 | —             | —             | 68.73         | 51.16                    | 1.76          | —                              |
| Northwest Territories <sup>1</sup> ..... | 48,000              | 17.60                                             | 75.33         | -79.66        | -67.67        | 22.76                    | 21.72         | -79.74                         |
| <b>Totals.....</b>                       | <b>3,689,257</b>    | <b>17.23</b>                                      | <b>11.76</b>  | <b>11.13</b>  | <b>34.17</b>  | <b>21.94<sup>2</sup></b> | <b>18.08</b>  | <b>181.27</b>                  |

<sup>1</sup>The decreases shown in the population of the Northwest Territories since 1891 are due to the separation therefrom of immense areas to form Yukon and the provinces of Alberta and Saskatchewan as well as to extend the boundaries of the older provinces of Quebec, Ontario and Manitoba.

<sup>2</sup>Revised in accordance with the Labrador award of the Privy Council, Mar. 1, 1927.

**Early Censuses.**—The credit of taking the first census of modern times belongs to Canada. The year was 1666, the census that of the colony of New France. Still earlier records of settlement at Port Royal (1605) and Quebec (1608) are extant; but the Census of 1666 was a systematic “nominal” enumeration of the people, taken on the *de jure* principle on a fixed date, showing age, sex, occupation and conjugal and family condition. A second census in 1667 included the areas under cultivation and the numbers of sheep and cattle. When it is recalled that in Europe the first census dates only from the eighteenth century (those of France and England from the first year of the nineteenth) and that, in the United States, the census begins only with 1790, the achievement of the primitive St. Lawrence colony, in instituting what is to-day one of the principal instruments of government throughout the civilized world, may call for more than passing appreciation.

The Census of 1666 (the results occupy 154 pages in manuscript, and are still to be seen in the Archives in Paris, or in a transcript at Ottawa) showed some 3,215 souls. It was repeated at intervals more or less regularly for a hundred years. By 1685 the total had risen to 10,904, including 1,538 Indians settled in villages and living a civilized life under the supervision of the missionaries. By the end of the century it had passed 15,000, and this was doubled in the next twenty-five years. Not to present further details, some of which will be found in the Chronology on pp. 54-63, it may be said that at the time of the cession (1763) the population of New France was nearly 70,000 (69,810 in 1765), whilst another 10,000 French (thinned to these proportions by the expulsion of the Acadians) were scattered through what are now Nova Scotia, New Brunswick and Prince Edward Island. The British population of Nova Scotia was 8,104 in 1762, thirteen years after the foundation of Halifax in 1749.

Our chief sources of statistics for half a century and more after the cession are the reports—more or less sporadic—of colonial governors, though censuses of the different sections under British rule were taken at irregular intervals. British settlement on a substantial scale in the Gulf provinces and in Ontario dates only from the Loyalist movement which followed the American Revolution, at the end of which, *i.e.*, about the year of the Constitutional Act (1791), the population of

Lower Canada was approximately 163,000, whilst the newly constituted province of Upper Canada, under Lieutenant-Governor Simcoe, numbered perhaps 15,000, and the addition of the maritime colonies brought the total to well over 200,000. A decade later Canada began the nineteenth century with a population of probably not less than 250,000 or 260,000. Subsequent censuses gave the populations of the different colonies as follows: Upper Canada (1824) 150,066, (1840) 432,159; Lower Canada (1822) 427,465, (1844) 697,084; New Brunswick (1824) 74,176, (1840) 156,162; Nova Scotia (1817) 81,351, (1838) 202,575; Prince Edward Island (1822) 24,600, (1841) 47,042.\*

The policy of irregular census-taking was supposed to have been ended after the union of Upper and Lower Canada by an Act, passed on Sept. 18, 1841, which provided for a census in the year 1842 and every fifth year thereafter, but under this Act only the census of Upper Canada was taken and the following year on Dec. 9, the Act was amended, the reason being stated as follows: "Whereas the Census of the inhabitants of Lower Canada, for the year one thousand eight hundred and forty-two as required by an Act of this Legislature, . . . hath not been duly taken . . . and whereas it is of the greatest importance that such Census should be taken . . . Be it therefore enacted . . . ." The Census of 1844 of Lower Canada was taken under this Act.

Another Act was passed and given Royal Assent on July 28, 1847, creating a "Board of Registration and Statistics" with instructions "to collect statistics and adopt measures for disseminating or publishing the same" and providing for a census to be taken in the year 1848, to be repeated in 1850 and every fifth year thereafter. This Act resulted in the Census of Upper Canada of 1848.

Finally an Act was passed on Aug. 30, 1851, providing for a census to be taken in January, 1852, then in the year 1861 and thereafter every tenth year, and that better provision should be made for taking the census. The first census thereunder was taken in January, 1852, and, as similar censuses were taken by New Brunswick and Nova Scotia, we have a regular measure of population growth in Canada over the past 80 years. The 'fifties saw a very rapid development, especially in Ontario, whilst the 'sixties showed only less substantial gains. In the years following Confederation there was a spurt, the increase between 1871 and 1881 (which included several lean years towards the end) being 635,553, or 17.23 p.c. In neither of the last two decades of the nineteenth century, however, was this record equalled either absolutely or relatively, the gains in each being under 550,000, or 12 p.c. With the end of the century the population of Canada had reached approximately five and a third millions, or twenty times that of 1800. It has increased by five millions in the past thirty years.

**Expansion in the Twentieth Century.** It is within the present century that the most spectacular expansion of the population of Canada has taken place. The outstanding feature was, of course, the opening to settlement of the "last best West". The unorganized territories of British North America had been ceded to the Dominion soon after Confederation, and the West had been tapped and traversed by the Canadian Pacific Railway in the 'eighties and 'nineties. But though western population was doubled in each of these decades, it was only with the launching of a large-scale immigration movement after 1900 that western settlement and production became a first-rate economic factor. Simultaneously an almost equally striking development occurred in the industrial centres of Eastern

\*A résumé of the results of all the censuses taken in Canada between 1666 and 1931 has been published in bulletin form and will be included in Vol. I, Census of 1931.



Canada, forming the immediate basis for the move upon the West. At the back, of course, was the heavy inflow of British and other capital—a total of \$1,500,000,000 between 1900 and 1912—which went to finance the large constructive undertakings (chiefly railway, municipal and industrial) which characterized the movement and which represented at bottom the traditional policy of England in search of cheap and abundant food for her workshop population. The years 1901 to 1911, in brief, form the *decas mirabilis* of Canadian expansion. The immigration movement just mentioned, which had previously run well under 50,000 per annum, rose rapidly to over five times that volume, eventually passing 400,000 in a single year. In the ten years between 1901 and 1911 it exceeded 1,800,000 and, though at least a third of these were lost (partly in the return to Europe of labour temporarily attracted by the railway and other developments in progress, and partly in the never-ceasing and natural “drag” of the United States upon a virile and less wealthy people), it formed the chief factor in the gain of 34 p.c. which the total population of Canada registered in that decade, and which was larger than the relative growth of any other country during the same period. The movement was continued and even intensified in the first three years of the second decade of the century, after which a recession set in to which the outbreak of war gave a new and wholly unexpected turn. Nevertheless, the decade which closed with the census of 1921 showed over 1,700,000 immigrant arrivals in Canada, and, though the proportionate loss of these was very heavy (probably as much as two-thirds), Canada’s relative gain for the decade was again among the largest in the world.

**Results of the Census of 1931.**—According to the final results of the Census of 1931 the total population of the Dominion on June 1, 1931, was 10,376,786, as compared with 8,787,949 on June 1, 1921, an increase of 1,588,837 or 18·08 p.c. in the decade, as compared with 21·94 p.c. and 34·17 p.c. during the decades 1911 to 1921 and 1901 to 1911 respectively.

During the decade 1911-21 the countries which comprise the British Empire, and more especially the United States which was in the Great War for only nineteen months as against Canada’s fifty-two, had suffered less in actual loss of life from the War and its consequences than the continental countries of Europe. None of them declined in population during the period, as many continental European countries did. Their percentage increases, however, were in almost all cases lower than in the previous decade. Thus the population of England and Wales increased between 1911 and 1921 only from 36,070,492 to 37,886,699, or 5·0 p.c., as compared with an increase of 10·9 p.c. in the previous decade; Scotland, again, increased only from 4,760,904 to 4,882,497, or 2·6 p.c., as compared with 6·5 p.c. between 1901 and 1911. Nor has this situation been much improved in the post-war decade 1921-31, for the increase in England and Wales during these years was but 5·4 p.c. and Scotland actually showed a decrease of 0·8 p.c. Of the overseas Dominions, New Zealand, according to the latest official estimate (the 1931 census was postponed), increased her population from 1,218,913 to 1,510,940 or by nearly 24 p.c. for the decade ended 1931, as compared with 20·9 p.c. and 30·5 p.c. respectively for the decades ended 1921 and 1911. In the case of the white population of South Africa, much the same condition obtained. The Commonwealth of Australia, the only Dominion to grow more rapidly in the second decade of the twentieth century than in the first, increased from 4,455,005 in 1911 to 5,435,734 in 1921 or by 22·01 p.c. as compared with 18·05 p.c. for the previous decade and by 19·85 p.c. to 6,630,600 in the most recent twelve-year period 1921-33.\* The population of the

\*As in the case of New Zealand the 1931 census was postponed, but was taken as of June 30, 1933.

continental United States increased between 1920 and 1930 from 105,710,620 to 122,775,046, an increase of 16.1 p.c., as compared with 14.9 p.c. in the decade 1910-20 and 21 p.c. in the decade 1900-10.

Considering now the movement of population within the Dominion of Canada itself, it is evident from Table 1 that in this country, as formerly in the United States, there is a distinct movement of population from east to west. In the decade from 1911 to 1921 this was clearly apparent, for the four western provinces then increased their population by no less than 44 p.c. and for the decade 1921-31 the increase was from 2,480,664 to 3,047,792, or 22.86 p.c. From 1921 to 1931 the five eastern provinces increased from 6,294,655 to 7,315,041, an increase of 1,020,386 persons, which, though absolutely larger than the figure for the West, constitutes an increase of only 16.2 p.c. over the 1921 population. The same conclusion may be deduced from Table 2, which shows that while in 1871 only 2.97 p.c. and in 1881 only 3.89 p.c. of the population of the country dwelt west of the lake of the Woods, the percentage in 1891 was 7.23; in 1901, 12.02; in 1911, 24.08; in 1921, 28.37; and in 1931, 29.51.

On the other hand, the Maritime Provinces, which in 1871 contained 20.80 p.c. of the total population of the Dominion, had in 1881 20.13 p.c., in 1891 18.22 p.c., in 1901 16.64 p.c., in 1911 13.02 p.c., in 1921 11.38 p.c., and in 1931 only 9.72 p.c. of the population. Ontario and Quebec—the old pre-Confederation Province of Canada—still remain the chief centre of population. Their proportion of the total was 60.77 p.c. in 1931, as compared with 76.23 p.c. in 1871, 75.98 p.c. in 1881, 74.54 p.c. in 1891, 71.34 p.c. in 1901, 62.90 p.c. in 1911 and 60.25 p.c. in 1921. In other words, the net result of the sixty years has been that in 1931 three-fifths of the population of the Dominion lived in these provinces as compared with more than three-fourths in 1871.

Table 5 gives the population of each county and census division for each of the census years, 1871 to 1931.

#### 5.—Population of Canada, by Provinces and Counties, or Census Divisions, 1871-1931.

| Province and County.    | 1871.            | 1881.            | 1891.            | 1901.            | 1911.            | 1921.            | 1931.             |
|-------------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| <b>Canada.....</b>      | <b>3,689,257</b> | <b>4,324,810</b> | <b>4,833,239</b> | <b>5,371,315</b> | <b>7,206,643</b> | <b>8,787,949</b> | <b>10,376,786</b> |
| <b>P.E. Island.....</b> | <b>94,021</b>    | <b>108,891</b>   | <b>109,078</b>   | <b>103,259</b>   | <b>93,728</b>    | <b>88,615</b>    | <b>88,038</b>     |
| Kings.....              | 23,068           | 26,433           | 26,633           | 24,725           | 22,636           | 20,445           | 19,147            |
| Prince.....             | 28,302           | 34,347           | 36,470           | 35,400           | 32,779           | 31,520           | 31,500            |
| Queens.....             | 42,651           | 48,111           | 45,975           | 43,134           | 38,313           | 36,650           | 37,391            |
| <b>Nova Scotia.....</b> | <b>387,800</b>   | <b>440,572</b>   | <b>450,396</b>   | <b>459,574</b>   | <b>492,338</b>   | <b>523,837</b>   | <b>512,846</b>    |
| Annapolis.....          | 18,121           | 20,598           | 19,350           | 18,842           | 18,581           | 18,153           | 16,297            |
| Antigonish.....         | 16,512           | 18,060           | 16,114           | 13,617           | 11,962           | 11,580           | 10,073            |
| Cape Breton.....        | 26,454           | 31,258           | 34,244           | 49,166           | 73,330           | 86,296           | 92,419            |
| Colchester.....         | 23,331           | 26,720           | 27,160           | 24,900           | 23,664           | 25,196           | 25,051            |
| Cumberland.....         | 23,518           | 27,368           | 34,529           | 36,168           | 40,543           | 41,191           | 36,366            |
| Digby.....              | 17,037           | 19,881           | 19,897           | 20,322           | 20,167           | 19,612           | 18,353            |
| Guysborough.....        | 16,555           | 17,808           | 17,195           | 18,320           | 17,048           | 15,518           | 15,443            |
| Halifax.....            | 56,963           | 67,917           | 71,358           | 74,662           | 80,257           | 97,228           | 100,204           |
| Hants.....              | 21,301           | 23,359           | 22,052           | 20,056           | 19,703           | 19,739           | 19,393            |
| Inverness.....          | 23,415           | 25,651           | 25,779           | 24,353           | 25,571           | 23,808           | 21,055            |
| Kings.....              | 21,510           | 23,489           | 22,489           | 21,937           | 21,780           | 23,723           | 24,357            |
| Lunenburg.....          | 23,834           | 28,583           | 31,075           | 32,389           | 33,260           | 33,742           | 31,674            |
| Pictou.....             | 32,114           | 35,535           | 34,541           | 33,459           | 35,858           | 40,851           | 39,018            |
| Queens.....             | 10,554           | 10,577           | 10,610           | 10,226           | 10,106           | 9,944            | 10,612            |
| Richmond.....           | 14,268           | 15,121           | 14,399           | 13,515           | 13,273           | 12,577           | 11,098            |
| Shelburne.....          | 12,417           | 14,913           | 14,956           | 14,202           | 14,105           | 13,491           | 12,485            |
| Victoria.....           | 11,846           | 12,470           | 12,432           | 10,571           | 9,910            | 8,814            | 8,009             |
| Yarmouth.....           | 18,550           | 21,284           | 22,210           | 22,860           | 23,220           | 22,374           | 20,939            |

Includes personnel of Royal Canadian Navy.

**5.—Population of Canada, by Provinces and Counties, or Census Divisions,  
1871-1931—continued.**

| Province and County.                              | 1871.            | 1881.            | 1891.            | 1901.            | 1911.            | 1921.                        | 1931.            |
|---------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------------------|------------------|
| <b>New Brunswick.....</b>                         | <b>285,594</b>   | <b>321,233</b>   | <b>321,263</b>   | <b>331,120</b>   | <b>351,889</b>   | <b>387,876</b>               | <b>408,219</b>   |
| Albert.....                                       | 10,672           | 12,329           | 10,971           | 10,925           | 9,691            | 8,607                        | 7,679            |
| Carleton.....                                     | 19,938           | 23,365           | 22,529           | 21,621           | 21,446           | 21,100                       | 20,796           |
| Charlotte.....                                    | 25,882           | 26,087           | 23,752           | 22,415           | 21,147           | 21,435                       | 21,337           |
| Gloucester.....                                   | 18,810           | 21,614           | 24,897           | 27,936           | 32,662           | 38,684                       | 41,914           |
| Kent.....                                         | 19,101           | 22,618           | 23,845           | 23,958           | 24,376           | 23,916                       | 23,478           |
| Kings.....                                        | 24,593           | 25,617           | 23,087           | 21,655           | 20,594           | 20,399                       | 19,807           |
| Madawaska.....                                    | 7,234            | 8,676            | 10,512           | 12,311           | 16,678           | 20,138                       | 24,527           |
| Northumberland.....                               | 20,116           | 25,109           | 25,713           | 28,543           | 31,194           | 33,985                       | 34,124           |
| Queens.....                                       | 13,847           | 14,017           | 12,152           | 11,177           | 10,897           | 11,679                       | 11,219           |
| Restigouche.....                                  | 5,575            | 7,058            | 8,308            | 10,586           | 15,687           | 22,839                       | 29,859           |
| St. John.....                                     | 52,120           | 52,966           | 49,574           | 51,759           | 53,572           | 60,486                       | 61,613           |
| Sunbury.....                                      | 6,824            | 6,651            | 5,762            | 5,729            | 6,219            | 6,162                        | 6,999            |
| Victoria.....                                     | 4,407            | 7,010            | 7,705            | 8,825            | 11,544           | 12,800                       | 14,907           |
| Westmorland.....                                  | 29,335           | 37,719           | 41,477           | 42,060           | 44,621           | 53,387                       | 57,506           |
| York.....                                         | 27,140           | 30,397           | 30,979           | 31,620           | 31,561           | 32,259                       | 32,454           |
| <b>Quebec.....</b>                                | <b>1,191,516</b> | <b>1,359,027</b> | <b>1,488,535</b> | <b>1,648,898</b> | <b>2,005,776</b> | <b>2,360,665<sup>1</sup></b> | <b>2,874,255</b> |
| Abitibi <sup>2</sup> .....                        | 12,806           | 14,947           | 15,158           | 16,467           | 16,766           | 17,165                       | 18,976           |
| Argenteuil.....                                   | 17,241           | 19,153           | 23,254           | 22,958           | 24,441           | 24,848                       | 27,159           |
| Arthabaska.....                                   | 19,491           | 21,199           | 21,695           | 18,181           | 18,206           | 18,035                       | 16,914           |
| Bagot.....                                        | 23,485           | 27,201           | 30,837           | 33,198           | 38,161           | 40,308                       | 44,793           |
| Beauce.....                                       | 14,757           | 16,005           | 16,662           | 21,732           | 20,802           | 19,888                       | 25,163           |
| Beauharnois.....                                  | 17,637           | 18,068           | 18,368           | 18,706           | 21,141           | 21,813                       | 22,006           |
| Berthier.....                                     | 19,804           | 22,238           | 20,399           | 20,710           | 20,606           | 20,509                       | 19,506           |
| Bonaventure.....                                  | 15,923           | 18,908           | 20,835           | 24,495           | 28,110           | 29,092                       | 32,432           |
| Brome.....                                        | 13,757           | 15,827           | 14,709           | 13,397           | 13,216           | 13,381                       | 12,433           |
| Chambly.....                                      | 10,498           | 10,858           | 11,704           | 12,779           | 16,711           | 21,924                       | 26,801           |
| Champlain.....                                    | 21,254           | 25,550           | 27,335           | 32,015           | 43,866           | 54,034                       | 59,935           |
| Charlevoix.....                                   | 15,611           | 17,901           | 19,038           | 19,334           | 20,637           | 20,708                       | 22,940           |
| Châteauguay.....                                  | 16,166           | 14,393           | 13,864           | 13,583           | 13,322           | 13,557                       | 13,125           |
| Chicoutimi.....                                   | 11,812           | 13,801           | 14,244           | 16,872           | 23,375           | 37,578                       | 55,724           |
| Compton.....                                      | 11,988           | 15,115           | 17,886           | 19,343           | 21,235           | 23,271                       | 21,917           |
| Deux-Montagnes.....                               | 15,615           | 15,894           | 15,027           | 14,438           | 13,868           | 14,309                       | 14,284           |
| Dorchester.....                                   | 17,779           | 18,710           | 18,364           | 20,697           | 24,457           | 26,788                       | 27,994           |
| Drummond.....                                     | 10,975           | 14,130           | 16,639           | 16,041           | 17,149           | 19,975                       | 26,179           |
| Frontenac.....                                    | 5,445            | 9,285            | 12,431           | 17,358           | 22,272           | 24,090                       | 25,681           |
| Gaspé.....                                        | 18,729           | 25,001           | 26,875           | 30,683           | 35,001           | 40,375                       | 45,617           |
| Hochelaga (included in<br>Montreal Island).       |                  |                  |                  |                  |                  |                              |                  |
| Hull.....                                         | 23,057           | 28,891           | 37,712           | 42,830           | 48,332           | 54,682                       | 63,870           |
| Huntingdon.....                                   | 16,304           | 15,495           | 14,385           | 13,979           | 13,240           | 13,174                       | 12,345           |
| Iberville.....                                    | 15,413           | 14,459           | 11,893           | 9,673            | 9,493            | 9,299                        | 9,402            |
| Jacques Cartier (included<br>in Montreal Island). |                  |                  |                  |                  |                  |                              |                  |
| Joliette.....                                     | 23,075           | 21,988           | 22,921           | 22,255           | 23,911           | 25,913                       | 27,585           |
| Kamouraska.....                                   | 21,254           | 22,181           | 20,454           | 19,099           | 20,888           | 22,014                       | 23,954           |
| Labelle.....                                      | 336              | 1,727            | 2,676            | 7,175            | 13,691           | 19,734                       | 20,140           |
| Lac-St-Jean.....                                  | 5,681            | 9,729            | 14,048           | 20,156           | 27,111           | 35,539                       | 50,253           |
| Laprairie.....                                    | 11,861           | 11,436           | 10,900           | 11,057           | 11,623           | 12,071                       | 13,491           |
| L'Assomption.....                                 | 15,473           | 15,282           | 13,674           | 13,995           | 15,164           | 14,331                       | 15,323           |
| Laval (included in Jesus<br>Island).              |                  |                  |                  |                  |                  |                              |                  |
| Lévis.....                                        | 24,831           | 27,980           | 25,995           | 26,210           | 28,913           | 33,323                       | 35,656           |
| L'Islet.....                                      | 13,517           | 14,917           | 13,823           | 14,439           | 16,435           | 17,859                       | 19,404           |
| Lotbinière.....                                   | 20,606           | 20,857           | 20,688           | 20,439           | 22,158           | 21,837                       | 23,034           |
| Maskinongé.....                                   | 15,079           | 17,093           | 17,266           | 15,083           | 15,775           | 16,253                       | 16,039           |
| Matane.....                                       | 10,022           | 13,544           | 14,621           | 20,456           | 27,539           | 36,303                       | 45,272           |
| Mégantic.....                                     | 18,879           | 19,056           | 22,233           | 23,878           | 31,314           | 33,633                       | 35,492           |
| Missisquoi.....                                   | 16,922           | 17,784           | 18,549           | 17,339           | 17,466           | 17,709                       | 19,636           |
| Montcalm.....                                     | 12,742           | 12,966           | 12,131           | 13,001           | 13,342           | 13,987                       | 13,865           |
| Montmagny.....                                    | 13,555           | 15,268           | 14,726           | 14,757           | 17,356           | 21,997                       | 20,239           |
| Montmorency.....                                  | 12,085           | 12,322           | 12,309           | 12,311           | 13,215           | 14,008                       | 16,955           |
| Montreal Island and Jesus<br>Island.....          | 153,516          | 202,633          | 286,961          | 371,086          | 566,168          | 738,210                      | 1,020,018        |
| Napierville.....                                  | 11,688           | 10,511           | 10,101           | 8,576            | 7,712            | 7,994                        | 7,600            |
| Nicolet.....                                      | 23,262           | 26,874           | 28,735           | 27,209           | 30,055           | 29,695                       | 28,673           |
| Papineau.....                                     | 14,521           | 18,814           | 22,972           | 25,726           | 27,180           | 26,558                       | 29,246           |
| Pontiac.....                                      | 15,501           | 18,840           | 20,381           | 21,442           | 21,123           | 20,271                       | 21,241           |
| Portneuf.....                                     | 22,569           | 25,175           | 25,813           | 27,159           | 30,529           | 32,960                       | 35,890           |
| Quebec.....                                       | 79,306           | 82,724           | 82,593           | 90,941           | 104,554          | 124,627                      | 170,915          |

<sup>1</sup>Northwest River Arm and Rigolet on Hamilton Inlet populations deducted from Quebec, as these parts were awarded to Newfoundland by decision of the Judicial Committee of the Privy Council, Mar. 1, 1927.

<sup>2</sup>Includes districts of Abitibi and Mistassini.



**5.—Population of Canada, by Provinces and Counties, or Census Divisions,  
1871-1931—continued.**

| Province and County.        | 1871.            | 1881.            | 1891.            | 1901.            | 1911.            | 1921.            | 1931.            |
|-----------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>Quebec—concluded.</b>    |                  |                  |                  |                  |                  |                  |                  |
| Richelieu.....              | 20,048           | 20,424           | 21,652           | 19,518           | 20,686           | 19,548           | 21,483           |
| Richmond.....               | 11,213           | 14,598           | 16,329           | 17,821           | 21,282           | 24,067           | 24,956           |
| Rimouski.....               | 17,396           | 20,247           | 18,809           | 19,701           | 23,951           | 27,520           | 33,151           |
| Rouville.....               | 17,634           | 18,547           | 16,012           | 13,407           | 13,131           | 13,656           | 13,776           |
| Saguenay <sup>1</sup> ..... | 5,487            | 8,879            | 9,989            | 11,263           | 15,402           | 16,818           | 21,754           |
| Shefford.....               | 19,077           | 23,233           | 23,263           | 23,628           | 23,976           | 25,734           | 28,262           |
| Sherbrooke.....             | 8,516            | 12,221           | 16,088           | 18,426           | 23,211           | 30,786           | 37,386           |
| Soulanges.....              | 10,808           | 10,220           | 9,608            | 9,928            | 9,400            | 10,065           | 9,099            |
| Stanstead.....              | 13,138           | 15,556           | 18,067           | 18,998           | 20,765           | 23,380           | 25,118           |
| St-Hyacinthe.....           | 18,310           | 20,425           | 21,135           | 21,543           | 22,342           | 23,098           | 25,854           |
| St-Jean.....                | 12,122           | 12,265           | 12,282           | 11,006           | 12,389           | 14,219           | 17,649           |
| St-Maurice.....             | 20,297           | 23,550           | 23,033           | 29,311           | 35,045           | 50,845           | 69,095           |
| Temiskaming.....            | 1,024            | 1,099            | 1,903            | 4,280            | 8,293            | 11,764           | 20,609           |
| Témiscouata.....            | 22,491           | 25,484           | 25,698           | 29,185           | 36,430           | 44,310           | 50,294           |
| Terrebonne.....             | 19,591           | 22,969           | 23,128           | 26,816           | 29,018           | 33,908           | 38,611           |
| Vaudreuil.....              | 11,003           | 11,485           | 10,792           | 10,445           | 11,039           | 11,555           | 12,015           |
| Verchères.....              | 12,717           | 12,449           | 12,257           | 11,539           | 12,004           | 12,719           | 12,603           |
| Wolfe.....                  | 8,823            | 11,741           | 15,018           | 16,316           | 18,209           | 18,181           | 16,911           |
| Yamaska.....                | 19,993           | 20,905           | 20,088           | 20,564           | 19,511           | 18,056           | 16,820           |
| <b>Ontario.....</b>         | <b>1,620,851</b> | <b>1,926,922</b> | <b>2,114,321</b> | <b>2,182,947</b> | <b>2,527,292</b> | <b>2,933,662</b> | <b>3,431,683</b> |
| Addington.....              | 10,309           | 10,170           | 9,850            | 9,925            | 8,138            | 7,184            | 6,879            |
| Algoma.....                 | 4,569            | 6,934            | 13,534           | 25,273           | 40,962           | 43,695           | 46,444           |
| Brant.....                  | 32,259           | 33,869           | 36,445           | 38,140           | 45,876           | 53,377           | 53,476           |
| Bruce.....                  | 48,515           | 65,218           | 64,603           | 59,020           | 50,032           | 44,285           | 42,286           |
| Carleton.....               | 52,932           | 64,103           | 77,630           | 96,904           | 119,384          | 148,705          | 170,400          |
| Cochrane.....               | —                | —                | —                | —                | 12,236           | 26,293           | 58,033           |
| Dufferin.....               | 16,689           | 22,084           | 22,332           | 21,036           | 17,740           | 15,415           | 14,892           |
| Dundas.....                 | 18,777           | 20,598           | 20,132           | 19,757           | 18,165           | 17,309           | 16,098           |
| Durham.....                 | 37,380           | 36,265           | 32,427           | 27,570           | 26,411           | 24,629           | 25,782           |
| Elgin.....                  | 33,666           | 42,361           | 43,377           | 43,586           | 44,312           | 44,984           | 43,436           |
| Essex.....                  | 32,697           | 46,962           | 55,545           | 58,734           | 67,547           | 102,575          | 159,780          |
| Frontenac.....              | 39,720           | 42,384           | 47,009           | 44,544           | 42,604           | 44,494           | 45,756           |
| Glengarry.....              | 20,524           | 22,221           | 22,447           | 22,131           | 21,259           | 20,518           | 18,666           |
| Grenville.....              | 22,616           | 22,741           | 21,609           | 21,021           | 17,545           | 16,644           | 16,327           |
| Grey.....                   | 57,352           | 70,539           | 71,214           | 69,590           | 65,891           | 59,051           | 57,699           |
| Haldimand.....              | 24,851           | 24,980           | 23,440           | 21,233           | 21,562           | 21,287           | 21,428           |
| Haliburton.....             | 2,676            | 5,911            | 6,350            | 6,559            | 6,320            | 6,209            | 5,997            |
| Halton.....                 | 22,606           | 21,919           | 21,982           | 19,545           | 22,208           | 24,899           | 26,558           |
| Hastings.....               | 48,364           | 55,061           | 59,084           | 59,291           | 55,803           | 57,523           | 58,846           |
| Huron.....                  | 66,165           | 76,526           | 66,781           | 61,820           | 52,983           | 47,088           | 45,180           |
| Kenora.....                 | —                | 4,564            | 4,984            | 10,369           | 15,490           | 16,662           | 21,946           |
| Kent.....                   | 40,634           | 54,310           | 57,814           | 57,194           | 55,995           | 57,949           | 62,865           |
| Lambton.....                | 38,897           | 52,034           | 58,810           | 56,642           | 51,332           | 52,879           | 54,674           |
| Lanark.....                 | 33,020           | 33,975           | 37,725           | 37,232           | 34,376           | 32,993           | 32,856           |
| Leeds.....                  | 35,302           | 38,434           | 39,279           | 37,975           | 36,763           | 34,909           | 35,157           |
| Lennox.....                 | 16,396           | 16,314           | 14,900           | 13,421           | 12,248           | 11,810           | 12,004           |
| Lincoln.....                | 29,547           | 31,573           | 30,079           | 30,552           | 35,429           | 48,625           | 54,199           |
| Manitoulin.....             | 2,011            | 8,460            | 10,794           | 11,828           | 11,324           | 10,468           | 10,734           |
| Middlesex.....              | 82,595           | 93,081           | 92,344           | 92,702           | 97,065           | 106,865          | 118,241          |
| Muskoka.....                | 5,360            | 12,973           | 15,666           | 20,971           | 21,233           | 19,601           | 20,985           |
| Nipissing.....              | 1,791            | 1,774            | 10,654           | 17,306           | 28,066           | 34,541           | 41,207           |
| Norfolk.....                | 30,760           | 33,527           | 30,992           | 29,147           | 27,110           | 26,366           | 31,359           |
| Northumberland.....         | 40,231           | 41,123           | 38,035           | 34,479           | 33,759           | 31,285           | 31,452           |
| Ontario.....                | 43,890           | 48,812           | 45,355           | 40,408           | 41,006           | 46,494           | 59,667           |
| Oxford.....                 | 48,237           | 50,159           | 49,849           | 48,404           | 47,371           | 46,762           | 47,825           |
| Parry Sound.....            | 1,559            | 14,231           | 21,152           | 24,938           | 26,547           | 26,860           | 25,900           |
| Peel.....                   | 26,011           | 26,175           | 24,871           | 21,475           | 22,102           | 23,896           | 28,156           |
| Perth.....                  | 46,536           | 53,693           | 51,716           | 49,871           | 49,182           | 50,843           | 51,392           |
| Peterborough.....           | 27,167           | 30,472           | 34,597           | 36,066           | 40,783           | 42,261           | 43,958           |
| Prescott.....               | 17,647           | 22,857           | 24,173           | 27,035           | 26,968           | 26,478           | 24,596           |
| Prince Edward.....          | 20,336           | 21,044           | 18,889           | 17,864           | 17,150           | 16,806           | 16,693           |
| Rainy River.....            | —                | —                | 2,210            | 6,568            | 10,429           | 13,518           | 17,359           |
| Renfrew.....                | 27,977           | 38,482           | 46,977           | 52,715           | 51,856           | 51,505           | 52,227           |
| Russell.....                | 8,696            | 13,080           | 18,289           | 20,282           | 21,649           | 21,121           | 18,487           |
| Simcoe.....                 | 56,762           | 74,803           | 82,727           | 82,315           | 85,053           | 84,032           | 83,667           |
| Stormont.....               | 18,987           | 23,198           | 27,156           | 27,042           | 24,775           | 25,134           | 32,524           |
| Sudbury.....                | —                | —                | 4,842            | 16,103           | 29,778           | 43,029           | 58,251           |
| Thunder Bay.....            | 438              | 4,056            | 8,000            | 11,219           | 39,496           | 49,560           | 65,118           |
| Timiskaming.....            | —                | —                | —                | 1,252            | 26,592           | 26,657           | 37,043           |
| Victoria.....               | 29,685           | 33,655           | 32,991           | 31,952           | 30,179           | 27,786           | 25,844           |
| Waterloo.....               | 40,251           | 42,740           | 50,464           | 52,594           | 62,607           | 75,266           | 89,852           |
| Welland.....                | 25,760           | 31,771           | 30,631           | 31,588           | 42,163           | 66,668           | 82,731           |
| Wellington.....             | 56,128           | 64,641           | 59,350           | 55,646           | 54,492           | 54,160           | 58,164           |

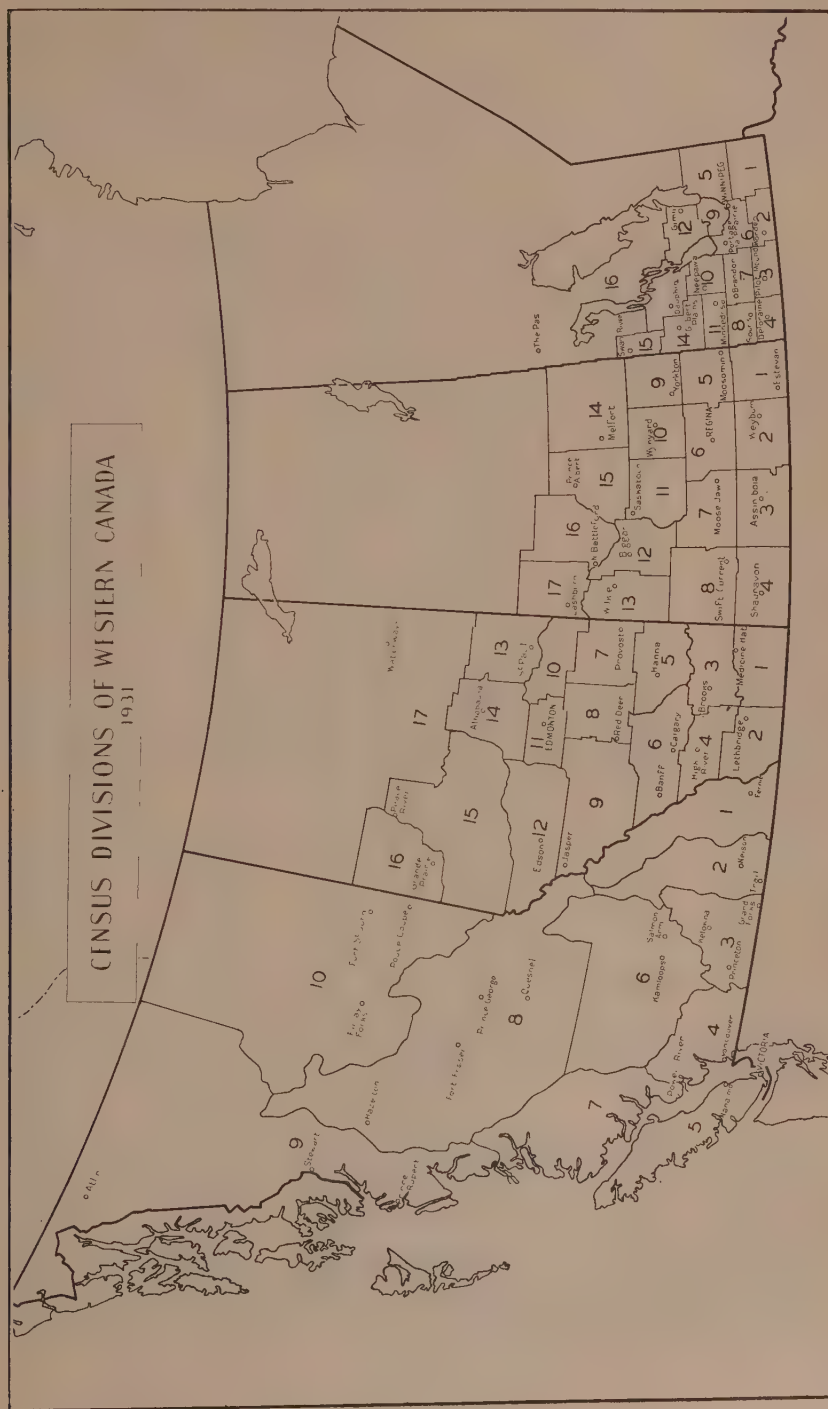
<sup>1</sup>Includes New Quebec district.

**5.—Population of Canada, by Provinces and Counties, or Census Divisions,  
1871-1931—concluded.**

| Province and County<br>or Census Division. | 1871.         | 1881.         | 1891.          | 1901.          | 1911.          | 1921.          | 1931.          |
|--------------------------------------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|
| <b>Ontario—concluded.</b>                  |               |               |                |                |                |                |                |
| Wentworth.....                             | 57,599        | 66,952        | 77,114         | 79,452         | 111,706        | 153,567        | 190,019        |
| York.....                                  | 115,974       | 153,113       | 245,101        | 272,663        | 444,234        | 647,665        | 856,955        |
| District of Patricia.....                  | 1             | 1             | 1              | 1              | 4,017          | 2,477          | 3,973          |
| <b>Manitoba<sup>2</sup>.....</b>           | <b>25,228</b> | <b>62,260</b> | <b>152,506</b> | <b>255,211</b> | <b>461,394</b> | <b>610,118</b> | <b>700,139</b> |
| Division No. 1.....                        | 543           | 3,774         | 5,663          | 8,693          | 15,401         | 20,009         | 22,817         |
| Division No. 2.....                        | 1,124         | 12,060        | 20,923         | 29,948         | 31,954         | 37,413         | 38,810         |
| Division No. 3.....                        | -             | 2,335         | 12,995         | 20,193         | 23,218         | 24,042         | 26,753         |
| Division No. 4.....                        | 990           | 1,505         | 6,539          | 14,258         | 17,764         | 17,241         | 18,253         |
| Division No. 5.....                        | 3,175         | 4,895         | 6,372          | 9,748          | 20,120         | 33,783         | 46,228         |
| Division No. 6.....                        | 5,157         | 19,297        | 40,387         | 65,346         | 172,126        | 229,084        | 283,828        |
| Division No. 7.....                        | -             | 1,051         | 16,034         | 24,652         | 33,904         | 35,810         | 36,912         |
| Division No. 8.....                        | 2,200         | 3,000         | 10,044         | 14,063         | 20,394         | 19,663         | 19,846         |
| Division No. 9.....                        | 5,727         | 6,120         | 8,819          | 12,520         | 23,129         | 39,528         | 45,414         |
| Division No. 10.....                       | 432           | 1,083         | 7,122          | 12,402         | 16,655         | 19,802         | 17,916         |
| Division No. 11.....                       | 2,800         | 3,200         | 9,750          | 15,580         | 22,305         | 27,059         | 28,100         |
| Division No. 12.....                       | 1,701         | 1,598         | 3,338          | 5,629          | 15,581         | 27,750         | 24,344         |
| Division No. 13.....                       | -             | 500           | 665            | 9,254          | 16,374         | 25,941         | 24,263         |
| Division No. 14.....                       | 521           | 975           | 2,708          | 8,425          | 17,251         | 23,735         | 25,978         |
| Division No. 15.....                       | -             | -             | -              | 1,849          | 4,682          | 8,856          | 10,008         |
| Division No. 16.....                       | 858           | 877           | 1,167          | 2,651          | 10,536         | 20,402         | 30,669         |
| <b>Saskatchewan<sup>2</sup>.....</b>       | <b>-</b>      | <b>-</b>      | <b>-</b>       | <b>91,279</b>  | <b>492,432</b> | <b>757,510</b> | <b>921,785</b> |
| Division No. 1.....                        | -             | -             | -              | 9,657          | 32,301         | 35,297         | 41,544         |
| Division No. 2.....                        | -             | -             | -              | 837            | 29,386         | 36,414         | 42,831         |
| Division No. 3.....                        | -             | -             | -              | 467            | 14,363         | 38,900         | 46,881         |
| Division No. 4.....                        | -             | -             | -              | 1,324          | 10,497         | 23,198         | 28,126         |
| Division No. 5.....                        | -             | -             | -              | 17,502         | 40,505         | 50,543         | 53,948         |
| Division No. 6.....                        | -             | -             | -              | 15,843         | 75,686         | 89,207         | 109,906        |
| Division No. 7.....                        | -             | -             | -              | 3,417          | 39,896         | 60,433         | 63,230         |
| Division No. 8.....                        | -             | -             | -              | 379            | 17,569         | 45,667         | 49,361         |
| Division No. 9.....                        | -             | -             | -              | 13,481         | 38,870         | 57,265         | 60,539         |
| Division No. 10.....                       | -             | -             | -              | 1,320          | 23,184         | 36,026         | 41,890         |
| Division No. 11.....                       | -             | -             | -              | 694            | 41,007         | 68,023         | 87,976         |
| Division No. 12.....                       | -             | -             | -              | 1,670          | 22,586         | 35,885         | 40,612         |
| Division No. 13.....                       | -             | -             | -              | 141            | 19,611         | 35,483         | 42,632         |
| Division No. 14.....                       | -             | -             | -              | 952            | 9,687          | 24,262         | 46,222         |
| Division No. 15.....                       | -             | -             | -              | 13,174         | 44,120         | 65,284         | 83,697         |
| Division No. 16.....                       | -             | -             | -              | 2,279          | 18,991         | 33,267         | 48,736         |
| Division No. 17.....                       | -             | -             | -              | 1,057          | 9,279          | 17,911         | 27,315         |
| Division No. 18.....                       | -             | -             | -              | 7,085          | 4,894          | 4,445          | 6,339          |
| <b>Alberta<sup>2</sup>.....</b>            | <b>-</b>      | <b>-</b>      | <b>-</b>       | <b>73,022</b>  | <b>374,295</b> | <b>588,454</b> | <b>731,605</b> |
| Division No. 1.....                        | -             | -             | -              | 3,144          | 24,738         | 30,664         | 28,849         |
| Division No. 2.....                        | -             | -             | -              | 11,357         | 38,989         | 46,823         | 57,186         |
| Division No. 3.....                        | -             | -             | -              | 278            | 9,330          | 17,404         | 15,066         |
| Division No. 4.....                        | -             | -             | -              | 2,536          | 18,375         | 23,302         | 29,067         |
| Division No. 5.....                        | -             | -             | -              | 75             | 13,170         | 31,220         | 26,651         |
| Division No. 6.....                        | -             | -             | -              | 11,358         | 73,178         | 112,689        | 140,624        |
| Division No. 7.....                        | -             | -             | -              | 59             | 22,107         | 37,143         | 38,106         |
| Division No. 8.....                        | -             | -             | -              | 11,904         | 42,976         | 56,820         | 61,016         |
| Division No. 9.....                        | -             | -             | -              | 1,747          | 13,043         | 17,728         | 24,503         |
| Division No. 10.....                       | -             | -             | -              | 5,694          | 29,378         | 45,579         | 58,049         |
| Division No. 11.....                       | -             | -             | -              | 18,491         | 58,703         | 95,334         | 126,832        |
| Division No. 12.....                       | -             | -             | -              | -              | 3,197          | 8,750          | 13,815         |
| Division No. 13.....                       | -             | -             | -              | 1,490          | 7,273          | 16,288         | 24,936         |
| Division No. 14.....                       | -             | -             | -              | 1,012          | 9,998          | 25,299         | 39,508         |
| Division No. 15.....                       | -             | -             | -              | -              | 951            | 6,358          | 13,664         |
| Division No. 16.....                       | -             | -             | -              | -              | 273            | 12,131         | 27,945         |
| Division No. 17.....                       | -             | -             | -              | 3,877          | 8,616          | 4,922          | 5,788          |
| <b>British Columbia<sup>2</sup>.....</b>   | <b>36,247</b> | <b>49,459</b> | <b>98,173</b>  | <b>178,657</b> | <b>392,480</b> | <b>524,582</b> | <b>694,263</b> |
| Division No. 1.....                        | -             | 863           | 8,446          | 1,220          | 22,466         | 19,137         | 22,566         |
| Division No. 2.....                        | -             | 817           | 2,185          | 23,516         | 25,373         | 31,075         | 40,455         |
| Division No. 3.....                        | -             | 7,939         | 3,360          | 12,085         | 28,066         | 35,522         | 40,523         |
| Division No. 4.....                        | -             | 17,292        | 41,507         | 53,641         | 183,108        | 256,679        | 379,858        |
| Division No. 5.....                        | -             | 6,753         | 35,744         | 60,886         | 81,241         | 108,792        | 120,933        |
| Division No. 6.....                        | -             | 2,208         | 8,191          | 11,563         | 19,031         | 24,484         | 30,025         |
| Division No. 7.....                        | -             | 9,825         | 2,475          | 3,743          | 3,545          | 10,232         | 12,658         |
| Division No. 8.....                        | -             | 2,862         | 2,003          | 4,523          | 8,411          | 17,631         | 21,534         |
| Division No. 9.....                        | -             | 1,000         | 548            | 9,270          | 16,595         | 18,986         | 18,698         |
| Division No. 10.....                       | -             | -             | 940            | 984            | 1,544          | 2,144          | 7,013          |
| <b>Yukon.....</b>                          | <b>-</b>      | <b>-</b>      | <b>-</b>       | <b>27,219</b>  | <b>8,512</b>   | <b>4,157</b>   | <b>4,230</b>   |
| <b>Northwest Territories.....</b>          | <b>48,000</b> | <b>56,446</b> | <b>98,967</b>  | <b>20,129</b>  | <b>6,507</b>   | <b>7,988</b>   | <b>9,723</b>   |

<sup>1</sup>Included in Northwest Territories.

<sup>2</sup>Populations for the provinces of Saskatchewan and Alberta are included in the N.W.T. for censuses prior to 1901. Comparative figures for the census divisions of British Columbia are not available for 1871. The chart on p. 107 shows the boundaries of the census divisions of the Prairie Provinces and British Columbia.





**Centres of Population.**—The “centre of population”\* for the Dominion of Canada has been carefully worked out for each census from 1851-1931 inclusive and shows a definite north-westward movement up to 1911, westward for the next decade and northward for 1931. For the censuses 1851 to 1881 the location was near Valleyfield, Que.; in 1891, it was 25 miles west of Ottawa; in 1901, near Pembroke; in 1911, 45 miles west of Sudbury; in 1921, 50 miles north-east of Sault Ste. Marie; and in 1931, 35 miles north of Sault Ste. Marie.

**Density of Population.**—The density of population in 1931 (*i.e.*, the number of persons per square mile of the land area as in that year), as compared with 1921, 1911 and 1901 is shown by provinces and for the country as a whole in Table 6, and by counties or census divisions in Table 7. Generally speaking the density of population decreases as one travels westward, but the enormous area of the province of Quebec unduly reduces the density of its population, which was 5.49 in 1931. As among the nine provinces, the density of population is greatest in Prince Edward Island and least in British Columbia.

#### 6.—Area and Density of Population of Canada, by Provinces, 1901-31.

| Province.                                         | Land Area in sq. miles. | Population, 1901. <sup>1</sup> |               | Population, 1911. |               | Population, 1921.            |               | Population, 1931. |               |
|---------------------------------------------------|-------------------------|--------------------------------|---------------|-------------------|---------------|------------------------------|---------------|-------------------|---------------|
|                                                   |                         | Total.                         | Per sq. mile. | Total.            | Per sq. mile. | Total.                       | Per sq. mile. | Total.            | Per sq. mile. |
| P. E. Island.....                                 | 2,184                   | 103,259                        | 47.28         | 93,728            | 42.92         | 88,615                       | 40.57         | 88,038            | 40.31         |
| Nova Scotia.....                                  | 20,743                  | 459,574                        | 22.16         | 492,338           | 23.74         | 523,837                      | 25.25         | 512,846           | 24.72         |
| New Brunswick.....                                | 27,710                  | 331,120                        | 11.95         | 351,889           | 12.70         | 387,876                      | 14.00         | 408,219           | 14.73         |
| Quebec.....                                       | 523,534                 | 1,648,898                      | 3.15          | 2,005,776         | 3.83          | 2,360,665 <sup>2</sup>       | 4.51          | 2,874,255         | 5.49          |
| Ontario.....                                      | 363,282                 | 2,182,947                      | 6.01          | 2,527,292         | 6.96          | 2,933,662                    | 8.08          | 3,431,683         | 9.45          |
| Manitoba.....                                     | 219,723                 | 255,211                        | 1.16          | 461,394           | 2.10          | 610,118                      | 2.78          | 700,139           | 3.19          |
| Saskatchewan.....                                 | 237,975                 | 91,279                         | 0.38          | 462,432           | 2.07          | 757,510                      | 3.18          | 921,785           | 3.87          |
| Alberta.....                                      | 248,800                 | 73,022                         | 0.29          | 374,295           | 1.50          | 588,454                      | 2.37          | 731,605           | 2.94          |
| British Columbia.....                             | 359,279                 | 178,657                        | 0.50          | 392,480           | 1.09          | 524,582                      | 1.46          | 694,263           | 1.93          |
| <b>Canada (Exclusive of the Territories).....</b> | <b>2,003,230</b>        | <b>5,323,967</b>               | <b>2.66</b>   | <b>7,191,624</b>  | <b>3.59</b>   | <b>8,775,319</b>             | <b>4.38</b>   | <b>10,362,833</b> | <b>5.17</b>   |
| Yukon.....                                        | 205,346                 | 27,219                         | 0.13          | 8,512             | 0.04          | 4,157                        | 0.02          | 4,230             | 0.02          |
| N.W.T.....                                        | 1,258,217               | 20,129                         | 0.02          | 6,507             | 0.01          | 7,988                        | 0.01          | 9,723             | 0.01          |
| R. C. Navy.....                                   | —                       | —                              | —             | —                 | —             | —                            | —             | —                 | —             |
| <b>Canada.....</b>                                | <b>3,466,793</b>        | <b>5,371,315</b>               | <b>1.55</b>   | <b>7,206,643</b>  | <b>2.08</b>   | <b>8,787,949<sup>2</sup></b> | <b>2.53</b>   | <b>10,376,786</b> | <b>2.99</b>   |

<sup>1</sup>The populations of Ontario, Quebec, Manitoba and Northwest Territories in 1901 are not adjusted according to the provisions of the Boundary Extensions Act, 1912.

<sup>2</sup>Populations of Northwest River Arm and Rigolet, on Hamilton inlet, as in 1921, have been deducted from Quebec, as these parts were awarded to Newfoundland by decision of the Judicial Committee of the Privy Council, Mar. 1, 1927.

**Elements of Growth.**—The former lack of comprehensive and comparable vital statistics for the whole of Canada, together with the lack of statistics of emigration, makes it difficult to determine how far the growth of population since the

\*The centres of population are the centres of gravity (not the intersection of median lines). The units of area in which the moments (*i.e.*, population multiplied by distance from a fixed point) were calculated were the permanent counties or census divisions, of which there are about 220, the same units being used so far as possible for all censuses from 1851 to 1931. The geographical centre of the unit area was assumed to be the centre of population of that unit except in the cases of the thinly settled northern areas of the counties with very large cities, where special adjustments were made.

commencement of the twentieth century is due to natural increase and how far to immigration. The following estimate (Table 8) may, however, be of interest. During the decade 1911-21, in addition to 60,000 Canadians who died overseas and nearly 20,000 who took their discharge in the United Kingdom, there were also great numbers of residents of Canada—most of them recent immigrants—who left Canada to join the forces of the Mother Country and her allies in the Great War and did not return.

### 7.—Area and Density of Population, by Counties or Census Divisions, 1931.

| Province and County.              | Land Area in sq. miles. | Population, 1931. |               | Province and County.        | Land Area in sq. miles. | Population, 1931. |               |
|-----------------------------------|-------------------------|-------------------|---------------|-----------------------------|-------------------------|-------------------|---------------|
|                                   |                         | Total.            | Per sq. mile. |                             |                         | Total.            | Per sq. mile. |
| <b>CANADA</b> .....               | <b>3,466,793</b>        | <b>10,376,786</b> | <b>2.99</b>   | <b>Quebec—concluded.</b>    |                         |                   |               |
| <b>Prince Edward Island</b> ..... | <b>2,184</b>            | <b>88,038</b>     | <b>40.31</b>  | Charlevoix.....             | 2,273                   | 22,940            | 10.09         |
| Kings.....                        | 641                     | 19,147            | 29.87         | Chateauguay.....            | 265                     | 13,125            | 49.53         |
| Prince.....                       | 778                     | 31,500            | 40.49         | Chicoutimi.....             | 17,800                  | 55,724            | 3.13          |
| Queens.....                       | 765                     | 37,391            | 48.88         | Compton.....                | 933                     | 21,917            | 23.49         |
| <b>Nova Scotia</b> .....          | <b>20,743</b>           | <b>512,846</b>    | <b>24.72</b>  | Deux-Montagnes.....         | 279                     | 14,284            | 51.20         |
| Annapolis.....                    | 1,285                   | 16,297            | 12.68         | Dorchester.....             | 842                     | 27,994            | 33.25         |
| Antigonish.....                   | 541                     | 10,073            | 18.62         | Drummond.....               | 532                     | 26,179            | 49.21         |
| Cape Breton.....                  | 972                     | 92,419            | 95.08         | Frontenac.....              | 1,370                   | 25,681            | 18.75         |
| Colchester.....                   | 1,451                   | 25,051            | 17.26         | Gaspé.....                  | 4,551                   | 45,617            | 10.02         |
| Cumberland.....                   | 1,683                   | 36,366            | 21.61         | Hull.....                   | 2,432                   | 63,870            | 26.26         |
| Digby.....                        | 970                     | 18,353            | 18.92         | Huntingdon.....             | 361                     | 12,345            | 34.20         |
| Guysborough.....                  | 1,611                   | 15,443            | 9.59          | Iberville.....              | 198                     | 9,402             | 47.48         |
| Halifax.....                      | 2,063                   | 100,204           | 48.57         | Joliette.....               | 2,506                   | 27,585            | 11.01         |
| Hants.....                        | 1,229                   | 19,393            | 15.78         | Kamouraska.....             | 1,038                   | 23,954            | 23.08         |
| Inverness.....                    | 1,409                   | 21,055            | 14.94         | Labelle.....                | 2,392                   | 20,140            | 8.42          |
| Kings.....                        | 842                     | 24,357            | 28.93         | Lac-St-Jean.....            | 23,590                  | 50,253            | 2.13          |
| Laurenburg.....                   | 1,169                   | 31,674            | 27.09         | Laprairie.....              | 170                     | 13,491            | 79.36         |
| Pictou.....                       | 1,124                   | 39,018            | 34.71         | L'Assomption.....           | 247                     | 15,323            | 62.04         |
| Queens.....                       | 983                     | 10,612            | 10.80         | Lévis.....                  | 272                     | 35,656            | 131.09        |
| Richmond.....                     | 489                     | 11,098            | 22.70         | L'Islet.....                | 773                     | 19,404            | 25.10         |
| Shelburne.....                    | 979                     | 12,485            | 12.75         | Lotbinière.....             | 726                     | 23,034            | 31.73         |
| Victoria.....                     | 1,105                   | 8,009             | 7.25          | Maskinongé.....             | 2,378                   | 16,039            | 6.74          |
| Yarmouth.....                     | 838                     | 20,939            | 24.99         | Matane.....                 | 3,496                   | 45,272            | 12.95         |
| <b>New Brunswick</b> ..           | <b>27,710</b>           | <b>408,219</b>    | <b>14.73</b>  | Mégantic.....               | 780                     | 35,492            | 45.50         |
| Albert.....                       | 687                     | 7,679             | 11.18         | Missisquoi.....             | 375                     | 19,636            | 52.36         |
| Carleton.....                     | 1,311                   | 20,796            | 15.86         | Montcalm.....               | 3,894                   | 13,865            | 3.56          |
| Charlotte.....                    | 1,254                   | 21,337            | 17.02         | Montmagny.....              | 630                     | 20,239            | 32.13         |
| Gloucester.....                   | 1,870                   | 41,914            | 22.41         | Montmorency.....            | 2,137                   | 16,955            | 7.93          |
| Kent.....                         | 1,749                   | 23,478            | 13.42         | Montreal and                |                         |                   |               |
| Kings.....                        | 1,386                   | 19,807            | 14.29         | Jesus Islands...            | 294                     | 1,020,018         | 3,469.45      |
| Madawaska.....                    | 1,273                   | 24,527            | 19.27         | Montreal Island             | 201                     | 1,003,868         | 4,994.37      |
| Northumberland                    | 4,711                   | 34,124            | 7.24          | Jesus Island....            | 93                      | 16,150            | 173.66        |
| Queens.....                       | 1,385                   | 11,219            | 8.10          | Napierville.....            | 149                     | 7,600             | 51.01         |
| Hestigouche.....                  | 3,270                   | 29,859            | 9.13          | Nicolet.....                | 626                     | 28,673            | 45.80         |
| St. John.....                     | 616                     | 61,613            | 100.02        | Papineau.....               | 1,581                   | 29,246            | 18.50         |
| Sunbury.....                      | 1,088                   | 6,999             | 6.43          | Pontiac.....                | 9,560                   | 21,241            | 2.22          |
| Victoria.....                     | 2,092                   | 14,907            | 7.13          | Portneuf.....               | 1,440                   | 35,890            | 24.92         |
| Westmorland.....                  | 1,442                   | 57,506            | 39.88         | Quebec.....                 | 2,745                   | 170,915           | 62.26         |
| York.....                         | 3,576                   | 32,454            | 9.08          | Richelieu.....              | 221                     | 21,483            | 97.21         |
| <b>Quebec</b> .....               | <b>523,534</b>          | <b>2,874,255</b>  | <b>5.49</b>   | Richmond.....               | 544                     | 24,956            | 45.88         |
| Abitibi <sup>1</sup> .....        | 76,725                  | 23,692            | 0.31          | Rimouski.....               | 2,089                   | 33,151            | 15.87         |
| Argenteuil.....                   | 783                     | 18,976            | 24.23         | Rouville.....               | 243                     | 13,776            | 56.69         |
| Arthabaska.....                   | 666                     | 27,159            | 40.78         | Saguenay <sup>2</sup> ..... | 315,176                 | 21,754            | 0.07          |
| Bagot.....                        | 346                     | 16,914            | 48.88         | Shefford.....               | 567                     | 28,262            | 49.84         |
| Beauce.....                       | 1,128                   | 44,793            | 39.71         | Sherbrooke.....             | 238                     | 37,386            | 157.08        |
| Beauharnois.....                  | 147                     | 25,163            | 171.18        | Soulanges.....              | 136                     | 9,099             | 66.90         |
| Bellechasse.....                  | 653                     | 22,006            | 33.70         | Stanstead.....              | 432                     | 25,118            | 58.14         |
| Berthier.....                     | 1,816                   | 19,506            | 10.74         | St-Hyacinthe...             | 278                     | 25,854            | 93.00         |
| Bonaventure.....                  | 3,464                   | 32,432            | 9.36          | St-Jean.....                | 205                     | 17,649            | 86.09         |
| Brome.....                        | 488                     | 12,433            | 25.48         | St-Maurice.....             | 1,820                   | 69,065            | 37.96         |
| Chambly.....                      | 138                     | 26,801            | 194.21        | Temiskaming....             | 8,977                   | 20,609            | 2.30          |
| Champlain.....                    | 8,586                   | 59,935            | 6.98          | Témiscouata....             | 1,806                   | 50,294            | 27.85         |
|                                   |                         |                   |               | Terrebonne.....             | 782                     | 38,611            | 49.37         |
|                                   |                         |                   |               | Vaudreuil.....              | 201                     | 12,015            | 59.73         |
|                                   |                         |                   |               | Verchères.....              | 199                     | 12,603            | 63.38         |
|                                   |                         |                   |               | Wolfe.....                  | 680                     | 16,911            | 24.87         |
|                                   |                         |                   |               | Yamaska.....                | 365                     | 16,820            | 461.08        |

<sup>1</sup>Includes districts of Abitibi and Mistassini.<sup>2</sup>Includes district of New Quebec.

**7.—Area and Density of Population, by Counties or Census Divisions, 1931—**  
concluded.

| Province and<br>County or<br>Census Division. | Land<br>Area in<br>sq. miles. | Population, 1931. |                  | Province and<br>Census Division. | Land<br>Area in<br>sq. miles. | Population, 1931. |                  |
|-----------------------------------------------|-------------------------------|-------------------|------------------|----------------------------------|-------------------------------|-------------------|------------------|
|                                               |                               | Total.            | Per sq.<br>mile. |                                  |                               | Total.            | Per sq.<br>mile. |
| <b>Ontario</b> .....                          | <b>363,282</b>                | <b>3,431,683</b>  | <b>9.45</b>      | <b>Manitoba-con.</b>             |                               |                   |                  |
| Addington.....                                | 873                           | 6,879             | 7.88             | Division No. 8...                | 2,160                         | 19,846            | 9.19             |
| Algoma.....                                   | 19,320                        | 46,444            | 2.40             | Division No. 9...                | 1,217                         | 45,414            | 37.32            |
| Brant.....                                    | 421                           | 53,476            | 127.02           | Division No. 10...               | 2,377                         | 17,916            | 7.54             |
| Bruce.....                                    | 1,650                         | 42,286            | 25.63            | Division No. 11...               | 2,914                         | 28,100            | 9.64             |
| Carleton.....                                 | 947                           | 170,040           | 179.56           | Division No. 12...               | 3,240                         | 24,344            | 7.51             |
| Cochrane.....                                 | 52,237                        | 58,033            | 1.11             | Division No. 13...               | 3,324                         | 24,263            | 7.30             |
| Dufferin.....                                 | 557                           | 14,892            | 26.74            | Division No. 14...               | 3,636                         | 25,978            | 7.14             |
| Dundas.....                                   | 384                           | 16,098            | 41.92            | Division No. 15...               | 2,304                         | 10,008            | 4.34             |
| Durham.....                                   | 629                           | 25,782            | 40.99            | Division No. 16...               | 176,637                       | 30,669            | 0.17             |
| Elgin.....                                    | 720                           | 43,436            | 60.33            |                                  |                               |                   |                  |
| Essex.....                                    | 707                           | 159,780           | 226.00           | <b>Saskatchewan</b> ....         | <b>237,975</b>                | <b>921,785</b>    | <b>3.87</b>      |
| Frontenac.....                                | 1,599                         | 45,756            | 28.62            | Division No. 1...                | 5,944                         | 41,544            | 6.99             |
| Glengarry.....                                | 478                           | 18,660            | 39.05            | Division No. 2...                | 6,686                         | 42,831            | 6.41             |
| Grenville.....                                | 463                           | 16,327            | 35.26            | Division No. 3...                | 7,646                         | 46,881            | 6.13             |
| Grey.....                                     | 1,708                         | 57,699            | 33.78            | Division No. 4...                | 7,579                         | 28,126            | 3.71             |
| Haldimand.....                                | 488                           | 21,428            | 43.91            | Division No. 5...                | 5,760                         | 53,948            | 9.37             |
| Haliburton.....                               | 1,486                         | 5,997             | 4.04             | Division No. 6...                | 6,787                         | 109,906           | 16.19            |
| Halton.....                                   | 363                           | 26,558            | 73.16            | Division No. 7...                | 7,471                         | 63,230            | 8.46             |
| Hastings.....                                 | 2,323                         | 58,846            | 25.33            | Division No. 8...                | 9,264                         | 49,361            | 5.33             |
| Huron.....                                    | 1,295                         | 45,180            | 34.89            | Division No. 9...                | 5,010                         | 60,539            | 12.08            |
| Kenora.....                                   | 18,150                        | 21,946            | 1.21             | Division No. 10...               | 4,860                         | 41,890            | 8.62             |
| Kent.....                                     | 918                           | 62,865            | 68.48            | Division No. 11...               | 5,979                         | 87,976            | 14.71            |
| Lambton.....                                  | 1,124                         | 54,674            | 48.64            | Division No. 12...               | 5,982                         | 40,612            | 6.79             |
| Lanark.....                                   | 1,138                         | 32,856            | 28.87            | Division No. 13...               | 6,848                         | 42,632            | 6.23             |
| Leeds.....                                    | 900                           | 35,157            | 39.06            | Division No. 14...               | 13,419                        | 46,222            | 3.44             |
| Lennox.....                                   | 297                           | 12,004            | 40.42            | Division No. 15...               | 8,082                         | 83,697            | 10.36            |
| Lincoln.....                                  | 332                           | 54,199            | 163.25           | Division No. 16...               | 8,912                         | 48,736            | 5.47             |
| Manitoulin.....                               | 1,588                         | 10,734            | 6.76             | Division No. 17...               | 6,913                         | 27,315            | 3.95             |
| Middlesex.....                                | 1,240                         | 118,241           | 95.36            | Division No. 18...               | 114,833                       | 6,339             | 0.06             |
| Muskoka.....                                  | 1,585                         | 20,985            | 13.24            |                                  |                               |                   |                  |
| Nipissing.....                                | 7,560                         | 41,207            | 5.45             | <b>Alberta</b> .....             | <b>248,800</b>                | <b>731,605</b>    | <b>2.94</b>      |
| Norfolk.....                                  | 634                           | 31,359            | 49.46            | Division No. 1...                | 7,323                         | 28,849            | 3.94             |
| Northumberland                                | 734                           | 31,452            | 42.85            | Division No. 2...                | 6,342                         | 57,186            | 9.02             |
| Ontario.....                                  | 853                           | 59,667            | 69.95            | Division No. 3...                | 7,018                         | 15,066            | 2.15             |
| Oxford.....                                   | 765                           | 47,825            | 62.52            | Division No. 4...                | 6,119                         | 29,067            | 4.75             |
| Parry Sound.....                              | 4,336                         | 25,900            | 5.97             | Division No. 5...                | 7,681                         | 26,651            | 3.47             |
| Peel.....                                     | 469                           | 28,156            | 60.03            | Division No. 6...                | 10,595                        | 140,624           | 13.27            |
| Perth.....                                    | 840                           | 51,392            | 61.18            | Division No. 7...                | 6,684                         | 38,106            | 5.70             |
| Peterborough.....                             | 1,415                         | 43,958            | 31.07            | Division No. 8...                | 6,510                         | 61,016            | 9.37             |
| Prescott.....                                 | 494                           | 24,596            | 49.79            | Division No. 9...                | 14,415                        | 24,503            | 1.70             |
| Prince Edward...                              | 390                           | 16,693            | 42.80            | Division No. 10...               | 6,180                         | 58,049            | 9.39             |
| Rainy River.....                              | 7,276                         | 17,359            | 2.39             | Division No. 11...               | 4,753                         | 126,832           | 26.68            |
| Renfrew.....                                  | 3,009                         | 52,227            | 17.36            | Division No. 12...               | 13,083                        | 13,815            | 1.06             |
| Russell.....                                  | 407                           | 18,487            | 45.42            | Division No. 13...               | 8,103                         | 24,936            | 3.08             |
| Simcoe.....                                   | 1,663                         | 83,667            | 50.31            | Division No. 14...               | 8,731                         | 39,508            | 4.53             |
| Stormont.....                                 | 412                           | 32,524            | 78.94            | Division No. 15...               | 22,845                        | 13,664            | 0.60             |
| Sudbury.....                                  | 18,058                        | 58,251            | 3.23             | Division No. 16...               | 11,100                        | 27,945            | 2.52             |
| Thunder Bay.....                              | 52,471                        | 65,118            | 1.24             | Division No. 17...               | 101,318                       | 5,788             | 0.06             |
| Timiskaming.....                              | 5,896                         | 37,043            | 6.28             |                                  |                               |                   |                  |
| Victoria.....                                 | 1,348                         | 25,844            | 19.17            | <b>British Columbia</b> ..       | <b>359,279</b>                | <b>694,263</b>    | <b>1.93</b>      |
| Waterloo.....                                 | 516                           | 89,852            | 174.13           | Division No. 1...                | 15,984                        | 22,566            | 1.41             |
| Welland.....                                  | 387                           | 82,731            | 213.78           | Division No. 2...                | 13,843                        | 40,455            | 3.03             |
| Wellington.....                               | 1,019                         | 58,164            | 57.08            | Division No. 3...                | 10,729                        | 40,523            | 3.78             |
| Wentworth.....                                | 458                           | 190,019           | 414.89           | Division No. 4...                | 9,764                         | 379,858           | 38.90            |
| York.....                                     | 882                           | 856,955           | 971.60           | Division No. 5...                | 13,206                        | 120,933           | 9.16             |
| District of Pat-                              |                               |                   |                  | Division No. 6...                | 31,420                        | 30,025            | 0.96             |
| ricia.....                                    | 135,070                       | 3,973             | 0.03             | Division No. 7...                | 22,187                        | 12,658            | 0.57             |
|                                               |                               |                   |                  | Division No. 8...                | 71,985                        | 21,534            | 0.30             |
| <b>Manitoba</b> .....                         | <b>219,723</b>                | <b>700,139</b>    | <b>3.19</b>      | Division No. 9...                | 88,128                        | 18,698            | 0.21             |
| Division No. 1...                             | 4,281                         | 22,817            | 5.33             | Division No. 10...               | 82,533                        | 7,013             | 0.08             |
| Division No. 2...                             | 2,320                         | 38,810            | 16.73            |                                  |                               |                   |                  |
| Division No. 3...                             | 2,577                         | 26,753            | 10.38            | <b>Yukon</b> .....               | <b>205,346</b>                | <b>4,230</b>      | <b>0.02</b>      |
| Division No. 4...                             | 2,466                         | 18,253            | 7.40             |                                  |                               |                   |                  |
| Division No. 5...                             | 5,256                         | 46,228            | 8.80             | <b>Northwest Terri-</b>          | <b>1,258,217</b>              | <b>9,723</b>      | <b>0.01</b>      |
| Division No. 6...                             | 2,436                         | 283,828           | 116.51           | <b>tories</b> .....              |                               |                   |                  |
| Division No. 7...                             | 2,578                         | 36,912            | 14.32            |                                  |                               |                   |                  |



**8.—Movement of Population, including Estimated Natural Increase, Recorded Immigration and Estimated Emigration for the Inter-Censal Periods 1901-11, 1911-21 and 1921-31.**

| Decade and Item.                                                                                | No.                    |
|-------------------------------------------------------------------------------------------------|------------------------|
| <b>Decade, 1901-1911—</b>                                                                       |                        |
| Population, Census of April 1, 1901.....                                                        | 5,371,315              |
| Natural increase (1901-1911), estimated.....                                                    | 853,566                |
| Immigration (April 1, 1901, to May 31, 1911).....                                               | 1,847,651              |
| Total.....                                                                                      | 8,072,532              |
| Population, Census of June 1, 1911.....                                                         | 7,206,643              |
| Emigration (April 1, 1901, to May 31, 1911), estimated.....                                     | 865,889                |
| <b>Decade, 1911-1921—</b>                                                                       |                        |
| Population, Census of June 1, 1911.....                                                         | 7,206,643              |
| Natural increase (1911-1921), estimated.....                                                    | 1,150,125              |
| Immigration (June 1, 1911, to May 31, 1921).....                                                | 1,728,921              |
| Total.....                                                                                      | 10,085,689             |
| Population, Census of June 1, 1921.....                                                         | 8,787,949 <sup>1</sup> |
| Emigration (June 1, 1911, to May 31, 1921), estimated.....                                      | 1,297,740 <sup>2</sup> |
| <b>Decade, 1921-1931—</b>                                                                       |                        |
| Population, Census of June 1, 1921.....                                                         | 8,787,949 <sup>1</sup> |
| Natural Increase (1921-1931), partly estimated for the years 1921-25 in the case of Quebec..... | 1,325,256              |
| Immigration (June 1, 1921, to May 31, 1931), including 288,874 returned Canadians.....          | 1,509,136              |
| Total.....                                                                                      | 11,622,341             |
| Population, Census of June 1, 1931.....                                                         | 10,376,786             |
| Emigration (June 1, 1921 to May 31, 1931), estimated.....                                       | 1,245,555              |
| <b>Net Gain in Population, 1901-1911.....</b>                                                   | <b>1,835,328</b>       |
| <b>Net Gain in Population, 1911-1921.....</b>                                                   | <b>1,581,306</b>       |
| <b>Net Gain in Population, 1921-1931.....</b>                                                   | <b>1,588,837</b>       |

<sup>1</sup>Revised in accordance with the Labrador award of the Privy Council, Mar. 1, 1927.

<sup>2</sup>This figure includes also the 50,000 Canadian lives lost at the front and the soldiers (about 20,000) enlisting in the Canadian forces and receiving their discharge in the United Kingdom.

## Section 2.—Sex Distribution.

Throughout the older countries of the world there is usually found an excess of female over male population, more especially as in most of these countries the census is taken on a *de facto* instead of, as in Canada, on a *de jure* basis. The causes of this excess of female population are: (1) the normally higher rate of mortality among males; (2) the greater number of males who travel; (3) the effects of war; (4) the employment of males in the army, navy and merchant marine; and (5) the preponderance of males among emigrants. In the newer countries of the world, however, the preponderance of males among immigrants results in a general excess of male over female population. These phenomena are exemplified for both the older and the newer countries in Table 11.

In Canada there has been an excess of male population from the commencement of its history, the first census, 1666, showing 2,034 males to only 1,181 females. As the colony increased in numbers, the disproportion between the sexes became smaller, more especially since the French-Canadian population, after about 1680, was not reinforced by immigration from the old world. In 1784, when the English-speaking immigration to Canada for purposes of settlement was commencing, there were 54,064 males and 50,759 females in the colony. At the middle of the nineteenth century, there were 449,967 males to 440,294 females in Lower Canada, and 499,067 males to 452,937 females in the more newly-settled Upper Canada, and since Con-

federation the same phenomenon of considerable excess of males has occurred throughout the growing Northwest. The great immigration of the first decade of the present century resulted in raising what is called the "masculinity" of the Canadian population (*i.e.*, the excess of males over females per 100 of population) to the highest point in recent history, *viz.*, 6.07 p.c. in 1911. The Great War, however, both checked immigration and took about 60,000 young Canadian male lives as its toll, with the result that at the Census of 1921 the masculinity of our population was only 3 p.c.—515 males to 485 females per 1,000 of population.

In 1931 there were 518 males to 482 females for Canada as a whole. It is interesting to note that the masculinity of the population has increased in the eastern provinces and decreased in the western ones, where it was formerly greatest. In Table 9 statistics are presented, showing the number of males and females in each of the provinces and territories at each census since 1871, while Table 10 shows the proportions of the sexes and excess of males per 1,000 of population. The statistics of Table 11 show the position of Canada among other countries of the world in regard to masculinity.

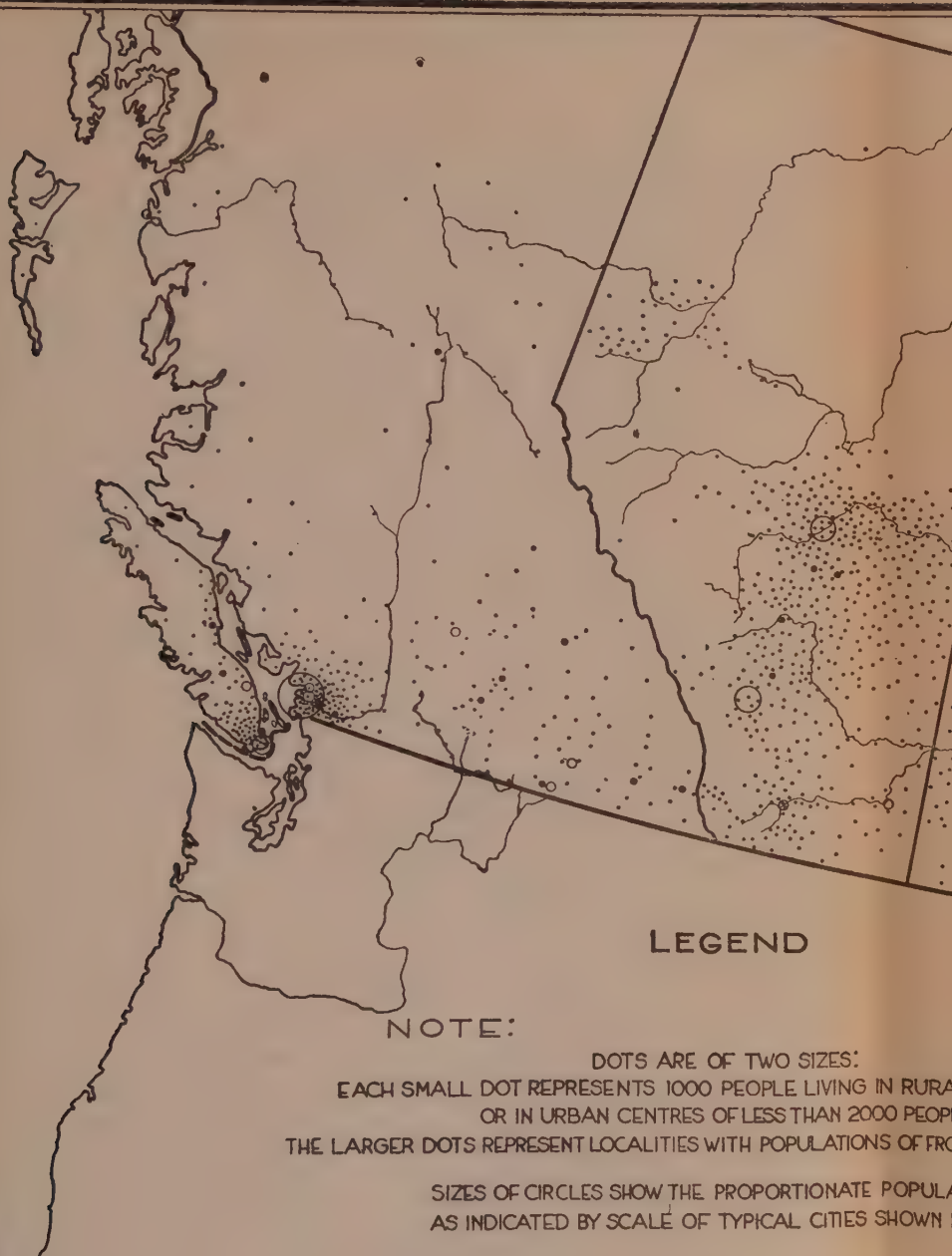
9.—Sex Distribution of the People of Canada, by Provinces, 1871-1931.

| Province<br>or<br>Territory. | 1871.            |                  | 1881.            |                  | 1891.            |                  |
|------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                              | Male.            | Female.          | Male.            | Female.          | Male.            | Female.          |
| Prince Edward Island.....    | 47,121           | 46,900           | 54,729           | 54,162           | 54,881           | 54,197           |
| Nova Scotia.....             | 193,792          | 194,008          | 220,538          | 220,034          | 227,093          | 223,303          |
| New Brunswick.....           | 145,888          | 139,706          | 164,119          | 157,114          | 163,739          | 157,524          |
| Quebec.....                  | 596,041          | 595,475          | 678,175          | 680,852          | 744,141          | 744,394          |
| Ontario.....                 | 828,590          | 792,261          | 978,554          | 948,368          | 1,069,487        | 1,044,834        |
| Manitoba.....                | 12,864           | 12,364           | 35,123           | 27,137           | 84,342           | 68,164           |
| Saskatchewan.....            | —                | —                | —                | —                | —                | —                |
| Alberta.....                 | —                | —                | —                | —                | —                | —                |
| British Columbia.....        | 20,694           | 15,553           | 29,503           | 19,956           | 63,003           | 35,170           |
| Yukon.....                   | —                | —                | —                | —                | —                | —                |
| Northwest Territories.....   | 24,274           | 23,726           | 28,113           | 28,333           | 53,785           | 45,182           |
| <b>Canada.....</b>           | <b>1,869,264</b> | <b>1,819,993</b> | <b>2,188,854</b> | <b>2,135,956</b> | <b>2,460,471</b> | <b>2,372,768</b> |

| Province<br>or<br>Territory. | 1901.            |                  | 1911.            |                  | 1921.            |                  | 1931.            |                  |
|------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                              | Male.            | Female.          | Male.            | Female.          | Male.            | Female.          | Male.            | Female.          |
| P.E. Island.....             | 51,959           | 51,300           | 47,069           | 46,659           | 44,887           | 43,728           | 45,392           | 42,646           |
| N.S.....                     | 233,642          | 225,932          | 251,019          | 241,319          | 266,472          | 257,365          | 263,104          | 249,742          |
| N.B.....                     | 168,639          | 162,481          | 179,867          | 172,022          | 197,351          | 190,525          | 208,620          | 199,599          |
| Que.....                     | 824,454          | 824,444          | 1,012,815        | 992,961          | 1,179,726        | 1,180,939        | 1,447,124        | 1,427,131        |
| Ont.....                     | 1,096,640        | 1,086,307        | 1,301,272        | 1,226,020        | 1,481,890        | 1,451,772        | 1,748,844        | 1,682,839        |
| Man.....                     | 138,504          | 116,707          | 252,954          | 208,440          | 320,567          | 289,551          | 368,065          | 332,074          |
| Sask.....                    | 49,431           | 41,848           | 291,730          | 200,702          | 413,700          | 343,810          | 499,935          | 421,850          |
| Alta.....                    | 41,019           | 32,003           | 223,792          | 150,503          | 324,208          | 264,246          | 400,199          | 331,406          |
| B.C.....                     | 114,160          | 64,497           | 251,619          | 140,861          | 293,409          | 231,173          | 385,219          | 309,044          |
| Yukon.....                   | 23,084           | 4,135            | 6,508            | 2,004            | 2,819            | 1,338            | 2,825            | 1,405            |
| N.W.T.....                   | 10,176           | 9,953            | 3,350            | 3,157            | 4,129            | 3,859            | 5,214            | 4,509            |
| <b>Canada.....</b>           | <b>2,751,708</b> | <b>2,619,607</b> | <b>3,821,995</b> | <b>3,384,648</b> | <b>4,529,643</b> | <b>4,258,306</b> | <b>5,374,541</b> | <b>5,002,245</b> |

<sup>1</sup> Includes 485, Royal Canadian Navy.



## LEGEND

### NOTE:

DOTS ARE OF TWO SIZES:  
EACH SMALL DOT REPRESENTS 1000 PEOPLE LIVING IN RURAL  
OR IN URBAN CENTRES OF LESS THAN 2000 PEOPLE  
THE LARGER DOTS REPRESENT LOCALITIES WITH POPULATIONS OF FROM

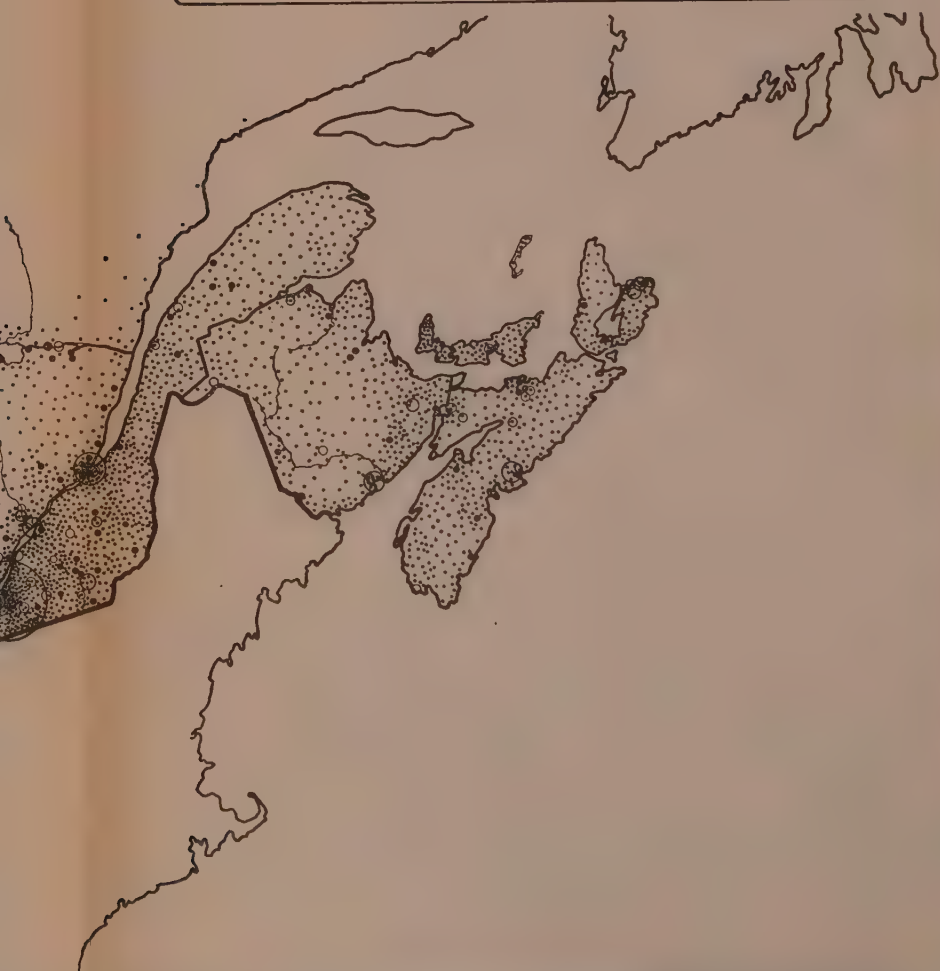
SIZES OF CIRCLES SHOW THE PROPORTIONATE POPULATION  
AS INDICATED BY SCALE OF TYPICAL CITIES SHOWN



# MAP OF THE DOMINION OF CANADA

EXCLUSIVE OF NORTHERN REGIONS

SHOWING  
DISTRIBUTION OF POPULATION  
CENSUS OF 1931





## 10.—Proportion of Sexes per 1,000 of Population in Canada, by Provinces, 1871-1931.

| Province.                | 1871.      |               |                                        | 1881.      |               |                                        | 1891.      |               |                                        |
|--------------------------|------------|---------------|----------------------------------------|------------|---------------|----------------------------------------|------------|---------------|----------------------------------------|
|                          | Males.     | Fe-<br>males. | Excess<br>of Males<br>over<br>Females. | Males.     | Fe-<br>males. | Excess<br>of Males<br>over<br>Females. | Males.     | Fe-<br>males. | Excess<br>of Males<br>over<br>Females. |
| Prince Edward Island...  | 501        | 499           | 2                                      | 503        | 497           | 6                                      | 503        | 497           | 6                                      |
| Nova Scotia .....        | 500        | 500           | —                                      | 501        | 499           | 2                                      | 504        | 496           | 8                                      |
| New Brunswick .....      | 511        | 489           | 22                                     | 511        | 489           | 22                                     | 510        | 490           | 20                                     |
| Quebec .....             | 500        | 500           | —                                      | 499        | 501           | -2                                     | 500        | 500           | —                                      |
| Ontario .....            | 511        | 489           | 22                                     | 508        | 492           | 16                                     | 506        | 494           | 12                                     |
| Manitoba .....           | 510        | 490           | 20                                     | 564        | 436           | 128                                    | 553        | 447           | 106                                    |
| Saskatchewan .....       | —          | —             | —                                      | —          | —             | —                                      | —          | —             | —                                      |
| Alberta .....            | —          | —             | —                                      | —          | —             | —                                      | —          | —             | —                                      |
| British Columbia .....   | 571        | 429           | 142                                    | 597        | 403           | 194                                    | 642        | 358           | 284                                    |
| Yukon .....              | —          | —             | —                                      | —          | —             | —                                      | —          | —             | —                                      |
| Northwest Territories .. | 506        | 494           | 12                                     | 498        | 502           | -4                                     | 543        | 457           | 86                                     |
| <b>Canada .....</b>      | <b>507</b> | <b>493</b>    | <b>14</b>                              | <b>506</b> | <b>494</b>    | <b>12</b>                              | <b>509</b> | <b>491</b>    | <b>18</b>                              |

| Province.        | 1901.      |              |                                       | 1911.      |              |                                       | 1921.      |              |                                       | 1931.      |              |                                      |
|------------------|------------|--------------|---------------------------------------|------------|--------------|---------------------------------------|------------|--------------|---------------------------------------|------------|--------------|--------------------------------------|
|                  | Males.     | Fe-<br>males | Excess<br>of Males<br>over<br>Females | Males.     | Fe-<br>males | Excess<br>of Males<br>over<br>Females | Males.     | Fe-<br>males | Excess<br>of Males<br>over<br>Females | Males.     | Fe-<br>males | Excess<br>of Male<br>over<br>Females |
| P.E. Island.     | 503        | 497          | 6                                     | 502        | 498          | 4                                     | 507        | 493          | 14                                    | 516        | 484          | 32                                   |
| N.S.             | 508        | 492          | 16                                    | 510        | 490          | 20                                    | 509        | 491          | 18                                    | 513        | 487          | 26                                   |
| N.B.             | 509        | 491          | 18                                    | 511        | 489          | 22                                    | 509        | 491          | 18                                    | 511        | 489          | 22                                   |
| Que.             | 500        | 500          | —                                     | 505        | 495          | 10                                    | 500        | 500          | —                                     | 503        | 497          | 6                                    |
| Ont.             | 502        | 498          | 4                                     | 515        | 485          | 30                                    | 505        | 495          | 10                                    | 510        | 490          | 20                                   |
| Man.             | 543        | 457          | 86                                    | 548        | 452          | 96                                    | 525        | 475          | 50                                    | 526        | 474          | 52                                   |
| Sask.            | 542        | 458          | 84                                    | 592        | 408          | 184                                   | 546        | 454          | 92                                    | 542        | 458          | 84                                   |
| Alta.            | 562        | 438          | 124                                   | 598        | 402          | 196                                   | 551        | 449          | 102                                   | 547        | 453          | 94                                   |
| B.C.             | 639        | 361          | 278                                   | 641        | 359          | 282                                   | 559        | 441          | 118                                   | 555        | 445          | 110                                  |
| Yukon.           | 848        | 152          | 696                                   | 765        | 235          | 530                                   | 678        | 322          | 356                                   | 668        | 332          | 336                                  |
| N.W.T.           | 506        | 494          | 12                                    | 515        | 485          | 30                                    | 517        | 483          | 34                                    | 536        | 464          | 72                                   |
| <b>Canada ..</b> | <b>512</b> | <b>488</b>   | <b>24</b>                             | <b>530</b> | <b>470</b>   | <b>60</b>                             | <b>515</b> | <b>485</b>   | <b>30</b>                             | <b>518</b> | <b>482</b>   | <b>36</b>                            |

## 11.—Masculinity of the Populations of Various Countries in Recent Years.

NOTE.—The minus sign (—) indicates a deficiency of males.

| Country.                              | Year. | Excess of<br>Males over<br>Females in<br>each 100<br>Population. | Country.                   | Year. | Excess of<br>Males over<br>Females in<br>each 100<br>Population. |
|---------------------------------------|-------|------------------------------------------------------------------|----------------------------|-------|------------------------------------------------------------------|
| Argentina .....                       | 1928  | 6.57                                                             | Sweden .....               | 1930  | —1.53                                                            |
| Canada .....                          | 1931  | 3.59                                                             | Denmark .....              | 1930  | —2.20                                                            |
| India .....                           | 1931  | 3.07                                                             | Italy .....                | 1931  | —2.27                                                            |
| New Zealand .....                     | 1931  | 2.18                                                             | Norway .....               | 1930  | —2.63                                                            |
| Australia .....                       | 1931  | 1.88                                                             | Finland .....              | 1920  | —2.67                                                            |
| Union of South Africa <sup>1</sup> .. | 1931  | 1.80                                                             | Germany .....              | 1925  | —3.14                                                            |
| Irish Free State .....                | 1929  | 1.56                                                             | Northern Ireland .....     | 1926  | —3.26                                                            |
| United States .....                   | 1930  | 1.22                                                             | Poland .....               | 1921  | —3.37                                                            |
| Japan .....                           | 1930  | 0.51                                                             | Switzerland .....          | 1930  | —3.65                                                            |
| Bulgaria .....                        | 1926  | 0.12                                                             | Scotland .....             | 1931  | —3.94                                                            |
| Netherlands .....                     | 1930  | —0.62                                                            | France .....               | 1926  | —4.00                                                            |
| Greece .....                          | 1928  | —0.84                                                            | England and Wales .....    | 1931  | —4.18                                                            |
| Belgium .....                         | 1930  | —0.96                                                            | Austria .....              | 1920  | —4.23                                                            |
| Chile .....                           | 1930  | —0.98                                                            | U.S.S.R. (in Europe) ..... | 1926  | —4.89                                                            |
| Spain .....                           | 1930  | —1.32                                                            | Portugal .....             | 1930  | —6.81                                                            |

<sup>1</sup>White population only

### Section 3.—Conjugal Condition.

In Table 12 are given, in summary form together with percentages, the statistics of the conjugal condition of the population, as single, married, widowed, divorced and legally separated, for 1871 and subsequent censuses. Especially notable is the larger percentage of married in the more recent years. This is mainly attributable to the larger percentage of adults to total population in our own time. Noteworthy also is the larger percentage of divorced and legally separated in recent years. The reader is referred to p. 191, for details of divorces granted in the years 1901-33.

The conjugal condition of the 1931 population is shown by provinces in Table 13 and by age groups in Table 14.

#### 12.—Conjugal Condition of the Population, by Numbers and Percentages, as Shown by the Censuses of 1871, 1881, 1891, 1901, 1911, 1921 and 1931.

| Sex.               | Single.   | Married.  | Widowed. | Divorced. | Legally Separated. | Not Given. | Total.    |
|--------------------|-----------|-----------|----------|-----------|--------------------|------------|-----------|
|                    | No.       | No.       | No.      | No.       | No.                | No.        | No.       |
| 1871— <sup>1</sup> |           |           |          |           |                    |            |           |
| Male.....          | 1,183,787 | 543,037   | 37,487   | —         | —                  | —          | 1,764,311 |
| Female.....        | 1,099,216 | 542,339   | 79,895   | —         | —                  | —          | 1,721,450 |
| 1881—              |           |           |          |           |                    |            |           |
| Male.....          | 1,447,415 | 690,544   | 50,895   | —         | —                  | —          | 2,188,854 |
| Female.....        | 1,336,981 | 689,540   | 109,435  | —         | —                  | —          | 2,135,956 |
| 1891—              |           |           |          |           |                    |            |           |
| Male.....          | 1,601,541 | 796,153   | 62,777   | —         | —                  | —          | 2,460,471 |
| Female.....        | 1,451,851 | 791,902   | 129,015  | —         | —                  | —          | 2,372,768 |
| 1901—              |           |           |          |           |                    |            |           |
| Male.....          | 1,748,582 | 928,952   | 73,837   | 337       | —                  | —          | 2,751,708 |
| Female.....        | 1,564,011 | 904,091   | 151,181  | 324       | —                  | —          | 2,619,607 |
| 1911—              |           |           |          |           |                    |            |           |
| Male.....          | 2,369,766 | 1,331,853 | 89,154   | 839       | 1,286              | 29,097     | 3,821,995 |
| Female.....        | 1,941,886 | 1,251,468 | 179,656  | 691       | 1,584              | 9,363      | 3,384,648 |
| 1921—              |           |           |          |           |                    |            |           |
| Male.....          | 2,698,564 | 1,698,297 | 119,695  | 3,670     | 2                  | 9,417      | 4,529,643 |
| Female.....        | 2,378,728 | 1,631,663 | 236,504  | 3,731     | 2                  | 7,680      | 4,258,306 |
| 1931—              |           |           |          |           |                    |            |           |
| Male.....          | 3,179,444 | 2,033,240 | 148,954  | 4,049     | 2                  | 8,854      | 5,374,541 |
| Female.....        | 2,771,968 | 1,937,950 | 288,641  | 3,392     | 2                  | 294        | 5,002,245 |
|                    | p.c.      | p.c.      | p.c.     | p.c.      | p.c.               | p.c.       | p.c.      |
| 1871— <sup>1</sup> |           |           |          |           |                    |            |           |
| Male.....          | 67.10     | 30.78     | 2.12     | —         | —                  | —          | 100.00    |
| Female.....        | 63.85     | 31.51     | 4.64     | —         | —                  | —          | 100.00    |
| 1881—              |           |           |          |           |                    |            |           |
| Male.....          | 66.12     | 31.55     | 2.33     | —         | —                  | —          | 100.00    |
| Female.....        | 62.59     | 32.28     | 5.13     | —         | —                  | —          | 100.00    |
| 1891—              |           |           |          |           |                    |            |           |
| Male.....          | 65.09     | 32.36     | 2.55     | —         | —                  | —          | 100.00    |
| Female.....        | 61.19     | 33.27     | 5.44     | —         | —                  | —          | 100.00    |
| 1901—              |           |           |          |           |                    |            |           |
| Male.....          | 63.55     | 33.76     | 2.68     | 0.01      | —                  | —          | 100.00    |
| Female.....        | 59.71     | 34.51     | 5.77     | 0.01      | —                  | —          | 100.00    |
| 1911—              |           |           |          |           |                    |            |           |
| Male.....          | 62.00     | 34.85     | 2.33     | 0.02      | 0.04               | 0.76       | 100.00    |
| Female.....        | 57.37     | 36.97     | 5.31     | 0.02      | 0.05               | 0.28       | 100.00    |
| 1921—              |           |           |          |           |                    |            |           |
| Male.....          | 59.58     | 37.49     | 2.64     | 0.08      | 2                  | 0.21       | 100.00    |
| Female.....        | 55.86     | 38.32     | 5.55     | 0.09      | 2                  | 0.18       | 100.00    |
| 1931—              |           |           |          |           |                    |            |           |
| Male.....          | 59.16     | 37.83     | 2.77     | 0.08      | 2                  | 0.16       | 100.00    |
| Female.....        | 55.41     | 38.74     | 5.77     | 0.07      | 2                  | 0.01       | 100.00    |

<sup>1</sup>The figures for 1871 cover the four original provinces of Canada only. <sup>2</sup> Legally separated included with divorced. <sup>3</sup> Legally separated included with married.

**13.—Conjugal Condition of the People of Canada Classified as Single, Married, Widowed, Divorced, and Not Given, by Provinces and Sex, 1931.**

| Province.                  | Males.           |                  |                |              |              |                  |
|----------------------------|------------------|------------------|----------------|--------------|--------------|------------------|
|                            | Single.          | Married.         | Widowed.       | Divorced.    | Not Given.   | Total.           |
| Prince Edward Island.....  | 27,820           | 15,886           | 1,667          | 15           | 4            | 45,392           |
| Nova Scotia.....           | 160,044          | 94,181           | 8,638          | 170          | 71           | 263,104          |
| New Brunswick.....         | 129,407          | 72,577           | 6,453          | 146          | 37           | 208,620          |
| Quebec.....                | 910,618          | 494,136          | 41,538         | 345          | 487          | 1,447,124        |
| Ontario.....               | 962,790          | 731,191          | 52,223         | 1,071        | 1,569        | 1,748,844        |
| Manitoba.....              | 221,183          | 137,568          | 8,671          | 344          | 299          | 368,065          |
| Saskatchewan.....          | 315,196          | 173,610          | 10,024         | 394          | 711          | 499,935          |
| Alberta.....               | 242,542          | 147,549          | 8,807          | 621          | 680          | 400,199          |
| British Columbia.....      | 204,961          | 163,730          | 10,615         | 921          | 4,992        | 385,219          |
| Yukon.....                 | 1,857            | 807              | 140            | 17           | 4            | 2,825            |
| Northwest Territories..... | 3,026            | 2,005            | 178            | 5            | —            | 5,214            |
| <b>Canada.....</b>         | <b>3,179,444</b> | <b>2,033,240</b> | <b>148,954</b> | <b>4,049</b> | <b>8,854</b> | <b>5,374,541</b> |

| Province.                  | Females.         |                  |                |              |            |                  |
|----------------------------|------------------|------------------|----------------|--------------|------------|------------------|
|                            | Single.          | Married.         | Widowed.       | Divorced.    | Not Given. | Total.           |
| Prince Edward Island.....  | 23,611           | 15,695           | 3,327          | 13           | —          | 42,646           |
| Nova Scotia.....           | 138,027          | 92,807           | 18,764         | 138          | 6          | 249,742          |
| New Brunswick.....         | 115,368          | 71,699           | 12,422         | 109          | 1          | 199,599          |
| Quebec.....                | 877,075          | 478,694          | 70,909         | 405          | 48         | 1,427,131        |
| Ontario.....               | 859,594          | 703,232          | 118,840        | 1,015        | 158        | 1,682,839        |
| Manitoba.....              | 184,410          | 131,078          | 16,264         | 309          | 13         | 332,074          |
| Saskatchewan.....          | 242,039          | 164,779          | 14,747         | 273          | 12         | 421,850          |
| Alberta.....               | 179,961          | 137,810          | 13,234         | 393          | 8          | 331,406          |
| British Columbia.....      | 148,909          | 139,655          | 19,701         | 731          | 48         | 309,044          |
| Yukon.....                 | 699              | 618              | 85             | 3            | —          | 1,405            |
| Northwest Territories..... | 2,275            | 1,883            | 348            | 3            | —          | 4,509            |
| <b>Canada.....</b>         | <b>2,771,968</b> | <b>1,937,950</b> | <b>288,641</b> | <b>3,392</b> | <b>294</b> | <b>5,002,245</b> |

**14.—Conjugal Condition of the People, 15 Years of Age and Over, 1931.**

| Age Period and Sex. | Total Population. | Single. |           | Married. |           | Widowed. |           | Divorced. | Not Given. |
|---------------------|-------------------|---------|-----------|----------|-----------|----------|-----------|-----------|------------|
|                     |                   | Number. | Per cent. | Number.  | Per cent. | Number.  | Per cent. | Number.   |            |
| 15-19—              |                   |         |           |          |           |          |           |           |            |
| Males.....          | 525,250           | 523,338 | 99.64     | 1,761    | 0.34      | 11       | 0.00      | —         | 140        |
| Females.....        | 514,341           | 488,115 | 94.90     | 26,079   | 5.07      | 122      | 0.02      | 15        | 10         |
| 20-24—              |                   |         |           |          |           |          |           |           |            |
| Males.....          | 463,722           | 396,576 | 85.52     | 66,031   | 14.24     | 445      | 0.10      | 63        | 607        |
| Females.....        | 447,463           | 282,469 | 63.13     | 163,552  | 36.55     | 1,229    | 0.27      | 199       | 14         |
| 25-29—              |                   |         |           |          |           |          |           |           |            |
| Males.....          | 409,976           | 213,745 | 52.14     | 193,652  | 47.23     | 1,832    | 0.45      | 259       | 488        |
| Females.....        | 376,305           | 121,749 | 32.35     | 250,870  | 66.67     | 3,235    | 0.86      | 437       | 14         |
| 30-34—              |                   |         |           |          |           |          |           |           |            |
| Males.....          | 368,135           | 106,923 | 29.04     | 256,567  | 69.69     | 3,487    | 0.95      | 424       | 734        |
| Females.....        | 340,701           | 63,619  | 18.67     | 270,033  | 79.26     | 6,497    | 1.91      | 533       | 19         |
| 35-39—              |                   |         |           |          |           |          |           |           |            |
| Males.....          | 359,081           | 69,889  | 19.46     | 281,737  | 78.46     | 5,747    | 1.60      | 517       | 1,191      |
| Females.....        | 329,382           | 44,701  | 13.57     | 272,293  | 82.67     | 11,781   | 3.58      | 592       | 15         |

## 14.—Conjugal Condition of the People, 15 Years of Age and Over, 1931—concluded.

| Age Period<br>and Sex.                     | Total<br>Popula-<br>tion. | Single.          |              | Married.         |              | Widowed.       |              | Divorced.    | Not<br>Given. |
|--------------------------------------------|---------------------------|------------------|--------------|------------------|--------------|----------------|--------------|--------------|---------------|
|                                            |                           | Number.          | Per<br>cent. | Number.          | Per<br>cent. | Number.        | Per<br>cent. | Number.      | Number.       |
| 40-44—                                     |                           |                  |              |                  |              |                |              |              |               |
| Males.....                                 | 347,763                   | 54,136           | 15.57        | 282,949          | 81.36        | 8,769          | 2.52         | 624          | 1,285         |
| Females.....                               | 298,336                   | 33,776           | 11.32        | 246,927          | 82.77        | 17,081         | 5.73         | 534          | 18            |
| 45-49—                                     |                           |                  |              |                  |              |                |              |              |               |
| Males.....                                 | 321,513                   | 44,941           | 13.98        | 262,973          | 81.79        | 11,858         | 3.69         | 623          | 1,118         |
| Females.....                               | 263,698                   | 27,107           | 10.28        | 214,712          | 81.42        | 21,463         | 8.14         | 386          | 30            |
| 50-54—                                     |                           |                  |              |                  |              |                |              |              |               |
| Males.....                                 | 267,332                   | 35,352           | 13.22        | 216,276          | 80.90        | 14,244         | 5.33         | 508          | 952           |
| Females.....                               | 221,349                   | 23,426           | 10.58        | 171,190          | 77.34        | 26,438         | 11.94        | 271          | 24            |
| 55-59—                                     |                           |                  |              |                  |              |                |              |              |               |
| Males.....                                 | 199,160                   | 24,917           | 12.51        | 158,443          | 79.56        | 14,691         | 7.38         | 367          | 742           |
| Females.....                               | 167,865                   | 17,960           | 10.70        | 121,085          | 72.13        | 28,625         | 17.05        | 175          | 20            |
| 60-64—                                     |                           |                  |              |                  |              |                |              |              |               |
| Males.....                                 | 156,912                   | 19,230           | 12.26        | 120,281          | 76.66        | 16,731         | 10.66        | 290          | 380           |
| Females.....                               | 137,685                   | 15,499           | 11.26        | 87,537           | 63.58        | 34,518         | 25.07        | 108          | 23            |
| 65-69—                                     |                           |                  |              |                  |              |                |              |              |               |
| Males.....                                 | 120,695                   | 13,746           | 11.39        | 88,024           | 72.93        | 18,647         | 15.45        | 180          | 98            |
| Females.....                               | 110,439                   | 11,930           | 10.80        | 59,326           | 53.72        | 39,104         | 35.41        | 68           | 11            |
| 70-74—                                     |                           |                  |              |                  |              |                |              |              |               |
| Males.....                                 | 88,581                    | 9,659            | 10.90        | 58,964           | 66.57        | 19,814         | 22.37        | 118          | 26            |
| Females.....                               | 83,019                    | 9,139            | 11.01        | 33,984           | 40.94        | 39,846         | 48.00        | 41           | 9             |
| 75-79—                                     |                           |                  |              |                  |              |                |              |              |               |
| Males.....                                 | 50,017                    | 4,649            | 9.29         | 29,456           | 58.89        | 15,845         | 31.68        | 52           | 15            |
| Females.....                               | 48,612                    | 5,198            | 10.69        | 14,147           | 29.10        | 29,238         | 60.15        | 23           | 6             |
| 80-84—                                     |                           |                  |              |                  |              |                |              |              |               |
| Males.....                                 | 23,877                    | 1,924            | 8.06         | 11,586           | 48.52        | 10,337         | 43.29        | 21           | 9             |
| Females.....                               | 25,294                    | 2,823            | 11.16        | 4,370            | 17.28        | 18,089         | 71.51        | 6            | 6             |
| 85-89—                                     |                           |                  |              |                  |              |                |              |              |               |
| Males.....                                 | 8,665                     | 617              | 7.12         | 3,291            | 37.98        | 4,753          | 54.85        | 2            | 2             |
| Females.....                               | 10,464                    | 1,095            | 10.46        | 1,124            | 10.74        | 8,238          | 78.73        | 4            | 3             |
| 90-94—                                     |                           |                  |              |                  |              |                |              |              |               |
| Males.....                                 | 2,051                     | 161              | 7.85         | 569              | 27.74        | 1,321          | 64.41        | —            | —             |
| Females.....                               | 2,881                     | 291              | 10.10        | 190              | 6.59         | 2,400          | 83.30        | —            | —             |
| 95-99—                                     |                           |                  |              |                  |              |                |              |              |               |
| Males.....                                 | 417                       | 34               | 8.15         | 111              | 26.62        | 272            | 65.23        | —            | —             |
| Females.....                               | 656                       | 69               | 10.52        | 36               | 5.49         | 551            | 83.99        | —            | —             |
| 100 and over—                              |                           |                  |              |                  |              |                |              |              |               |
| Males.....                                 | 74                        | 7                | 9.46         | 20               | 27.03        | 47             | 63.51        | —            | —             |
| Females.....                               | 89                        | 11               | 12.36        | 3                | 3.37         | 75             | 84.27        | —            | —             |
| Age not given—                             |                           |                  |              |                  |              |                |              |              |               |
| Males.....                                 | 2,711                     | 991              | 36.55        | 549              | 20.25        | 103            | 3.80         | 1            | 1,067         |
| Females.....                               | 1,060                     | 406              | 38.30        | 471              | 44.43        | 111            | 10.47        | —            | 72            |
| Totals, 15 years and<br>over— <sup>1</sup> |                           |                  |              |                  |              |                |              |              |               |
| Males.....                                 | 3,713,221                 | 1,519,844        | 40.93        | 2,032,691        | 54.74        | 148,851        | 4.01         | 4,048        | 7,787         |
| Females.....                               | 3,378,579                 | 1,148,977        | 34.01        | 1,937,458        | 57.35        | 288,530        | 8.54         | 3,392        | 222           |
| <b>Totals, All Ages...</b>                 | <b>10,376,786</b>         | <b>5,951,412</b> | <b>57.35</b> | <b>3,971,190</b> | <b>38.27</b> | <b>437,595</b> | <b>4.22</b>  | <b>7,441</b> | <b>9,148</b>  |
| <b>Males.....</b>                          | <b>5,374,541</b>          | <b>3,179,444</b> | <b>59.16</b> | <b>2,033,240</b> | <b>37.83</b> | <b>148,954</b> | <b>2.77</b>  | <b>4,049</b> | <b>8,854</b>  |
| <b>Females.....</b>                        | <b>5,002,245</b>          | <b>2,771,968</b> | <b>55.41</b> | <b>1,937,950</b> | <b>38.74</b> | <b>288,641</b> | <b>5.77</b>  | <b>3,392</b> | <b>294</b>    |

<sup>1</sup>Exclusive of "age not given".



## Section 4.—Age Distribution.

The same causes which have in the past rendered the sex distribution of population in Canada somewhat unusual have also affected its age distribution. In the first stages of the settlement of a new colony, men in the prime of life constitute the bulk of the population, and women and children are conspicuous by their absence, so that there will be a disproportionately large male population between the ages of 20 and 50, together with a low birth rate. Later on in the settlement of a new country where there is land and food for all and where the early disproportion of the sexes has been overcome, there is a very high rate of natural increase, and an extraordinarily large proportion of children among the population. Thus in 1871 (see Table 15), 286·91 out of every 1,000 of the population of Canada were children under 10 years of age and over half the total population (526·76 out of every 1,000) were under 20 years of age. But, with the growing urbanization of population, the average age at marriage increased and children came to be regarded as a liability rather than an asset. Thus in 1911, out of every 1,000 of the population, only 231·83 were under 10 years of age and 423·42 under 20 years of age. In 1921, however, 239·67 per 1,000 of the population were under 10 years of age and 434·81 per 1,000 under 20 years. In 1931, the number of children under 10 years of age had dropped to 212·70 per 1,000 of the population, and of persons under 20 to 416·39 per 1,000.

Table 16 shows the varying age distribution of the population of the respective provinces, while Table 17 gives details of the age distribution of the population of the Dominion, by sex, for the census years 1881 to 1931.

**15.—Proportion per 1,000 of the Population by Age Periods, 1871, 1881, 1891, 1901, 1911, 1921 and 1931.**

| Age Period.       | 1871.   | 1881.   | 1891.   | 1901.   | 1911.   | 1921.   | 1931.   |
|-------------------|---------|---------|---------|---------|---------|---------|---------|
| Under 1 year..... | 30·567  | 28·019  | 24·923  | 24·497  | 25·734  | 23·858  | 19·531  |
| 1—4 years.....    | 115·649 | 108·507 | 99·964  | 95·210  | 97·413  | 96·482  | 84·009  |
| 5—9 “.....        | 140·691 | 128·251 | 121·242 | 114·664 | 108·685 | 119·333 | 109·162 |
| 10—19 “.....      | 239·854 | 227·404 | 219·710 | 210·906 | 191·585 | 195·138 | 203·689 |
| 20—29 “.....      | 171·436 | 175·957 | 178·080 | 173·549 | 189·335 | 159·041 | 163·583 |
| 30—39 “.....      | 111·404 | 113·099 | 122·080 | 129·259 | 141·938 | 146·247 | 134·656 |
| 40—49 “.....      | 79·995  | 83·817  | 88·441  | 98·494  | 100·071 | 109·481 | 118·660 |
| 50—59 “.....      | 54·788  | 58·087  | 62·360  | 67·886  | 69·121  | 73·082  | 82·463  |
| 60 and over.....  | 55·128  | 63·270  | 70·142  | 76·397  | 71·027  | 74·917  | 83·882  |
| Not given.....    | 0·488   | 13·589  | 13·059  | 9·137   | 5·090   | 2·419   | 0·383   |

**16.—Proportion per 1,000 of the Population by Age Periods, by Provinces, 1931, with Totals for 1921.**

| Province.                            | 0-9<br>Years. | 10-19<br>Years. | 20-44<br>Years. | 45-69<br>Years. | 70 Years<br>and Over. | Age Not<br>Given. |
|--------------------------------------|---------------|-----------------|-----------------|-----------------|-----------------------|-------------------|
| Prince Edward Island.....            | 212·47        | 207·97          | 308·15          | 206·52          | 64·81                 | 0·08              |
| Nova Scotia.....                     | 215·36        | 214·17          | 320·93          | 198·39          | 50·93                 | 0·22              |
| New Brunswick.....                   | 239·83        | 219·63          | 317·25          | 181·18          | 41·95                 | 0·17              |
| Quebec.....                          | 245·89        | 214·20          | 352·95          | 157·69          | 29·05                 | 0·23              |
| Ontario.....                         | 186·68        | 185·67          | 373·92          | 212·28          | 41·20                 | 0·25              |
| Manitoba.....                        | 203·29        | 219·27          | 365·99          | 185·52          | 25·72                 | 0·20              |
| Saskatchewan.....                    | 234·80        | 228·98          | 353·08          | 163·81          | 19·12                 | 0·21              |
| Alberta.....                         | 217·98        | 210·00          | 374·07          | 178·47          | 19·32                 | 0·16              |
| British Columbia.....                | 160·07        | 175·97          | 377·16          | 254·66          | 29·97                 | 2·17              |
| <b>Canada, 1931<sup>1</sup>.....</b> | <b>212·70</b> | <b>203·69</b>   | <b>360·50</b>   | <b>189·52</b>   | <b>33·22</b>          | <b>0·36</b>       |
| <b>Canada, 1921<sup>1</sup>.....</b> | <b>239·67</b> | <b>195·14</b>   | <b>365·27</b>   | <b>169·35</b>   | <b>28·12</b>          | <b>2·42</b>       |

<sup>1</sup> The statistics for Yukon and the Northwest Territories are included in the totals.

**17.—Male and Female Population of Canada, by Age Periods, 1881, 1891, 1901, 1911, 1921 and 1931.**

| Age Period.                     | 1881.            |                  |                  | 1891.            |                  |                  | 1901.            |                  |                  |
|---------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                 | Male.            | Female.          | Total.           | Male.            | Female.          | Total.           | Male.            | Female.          | Total.           |
| Under 1 year....                | 61,704           | 59,473           | 121,177          | 61,308           | 59,149           | 120,457          | 66,464           | 65,116           | 131,580          |
| 1 year.....                     | 50,298           | 48,288           | 98,586           | 52,160           | 50,833           | 102,993          | 62,384           | 61,203           | 123,587          |
| 2 years.....                    | 65,187           | 63,069           | 128,256          | 65,465           | 63,898           | 129,363          | 65,245           | 64,182           | 129,427          |
| 3 years.....                    | 62,217           | 60,455           | 122,672          | 63,854           | 62,047           | 125,901          | 64,748           | 64,158           | 128,906          |
| 4 years.....                    | 60,616           | 59,144           | 119,760          | 63,328           | 61,563           | 124,891          | 65,455           | 64,030           | 129,485          |
| <b>Totals, Under 5 Years...</b> | <b>300,022</b>   | <b>290,429</b>   | <b>590,451</b>   | <b>306,115</b>   | <b>297,490</b>   | <b>603,605</b>   | <b>324,296</b>   | <b>318,689</b>   | <b>642,985</b>   |
| 5 to 9 years....                | 281,216          | 273,446          | 554,662          | 297,385          | 288,605          | 585,990          | 311,134          | 304,765          | 615,899          |
| 10 to 14 "....                  | 259,154          | 247,728          | 506,882          | 279,889          | 269,287          | 549,176          | 295,674          | 284,665          | 580,339          |
| 15 to 19 "....                  | 237,317          | 239,281          | 476,598          | 258,325          | 254,412          | 512,737          | 280,275          | 272,228          | 552,503          |
| 20 to 24 "....                  | 211,634          | 217,771          | 429,405          | 237,144          | 235,913          | 473,057          | 256,981          | 251,823          | 508,804          |
| 25 to 29 "....                  | 165,389          | 166,236          | 331,575          | 194,531          | 193,115          | 387,646          | 216,334          | 207,051          | 423,385          |
| 30 to 34 "....                  | 131,051          | 129,538          | 260,589          | 163,866          | 155,724          | 319,590          | 188,125          | 174,942          | 363,067          |
| 35 to 39 "....                  | 115,029          | 113,515          | 228,544          | 139,899          | 130,551          | 270,450          | 172,553          | 158,673          | 331,226          |
| 40 to 44 "....                  | 97,807           | 95,537           | 193,344          | 118,954          | 112,685          | 231,639          | 152,036          | 137,822          | 289,858          |
| 45 to 49 "....                  | 86,784           | 82,364           | 169,148          | 100,827          | 94,992           | 195,819          | 125,636          | 113,550          | 239,186          |
| 50 to 54 "....                  | 72,046           | 68,762           | 140,808          | 87,861           | 83,565           | 171,426          | 106,107          | 97,857           | 203,964          |
| 55 to 59 "....                  | 57,379           | 53,027           | 110,406          | 66,887           | 63,089           | 129,976          | 82,136           | 78,535           | 160,671          |
| 60 to 64 "....                  | 52,006           | 45,354           | 97,360           | 62,819           | 57,403           | 120,222          | 72,807           | 68,156           | 140,963          |
| 65 to 69 "....                  | 36,544           | 32,052           | 68,596           | 44,717           | 40,172           | 84,889           | 54,497           | 51,176           | 105,673          |
| 70 to 74 "....                  | 26,158           | 23,453           | 49,611           | 32,941           | 29,906           | 62,847           | 39,086           | 37,294           | 76,380           |
| 75 to 79 "....                  | 16,361           | 14,649           | 31,010           | 20,047           | 17,864           | 37,911           | 24,548           | 23,248           | 47,796           |
| 80 to 84 "....                  | 9,251            | 8,307            | 17,558           | 10,798           | 10,151           | 20,949           | 13,090           | 12,740           | 25,830           |
| 85 to 89 "....                  | 3,344            | 3,151            | 6,495            | 4,160            | 4,390            | 8,550            | 4,848            | 4,990            | 9,838            |
| 90 to 94 "....                  | 987              | 1,094            | 2,081            | 1,360            | 1,436            | 2,796            | 1,356            | 1,554            | 2,910            |
| 95 to 99 "....                  | 330              | 379              | 709              | 411              | 437              | 848              | 423              | 538              | 961              |
| 100 and over....                | 99               | 110              | 209              | 411              | 437              | 848              | 423              | 538              | 961              |
| Not given.....                  | 28,996           | 29,773           | 58,769           | 31,535           | 31,581           | 63,116           | 29,766           | 19,311           | 49,077           |
| <b>Totals, Population.....</b>  | <b>2,188,854</b> | <b>2,135,956</b> | <b>4,324,810</b> | <b>2,460,471</b> | <b>2,372,768</b> | <b>4,833,239</b> | <b>2,751,708</b> | <b>2,619,607</b> | <b>5,371,315</b> |

| Age Period.                     | 1911.            |                  |                  | 1921.            |                  |                  | 1931.            |                  |                   |
|---------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
|                                 | Male.            | Female.          | Total.           | Male.            | Female.          | Total.           | Male.            | Female.          | Total.            |
| Under 1 year....                | 93,513           | 91,946           | 185,459          | 105,941          | 103,725          | 209,666          | 102,930          | 99,738           | 202,668           |
| 1 year.....                     | 87,399           | 86,002           | 173,401          | 104,562          | 103,209          | 207,771          | 102,879          | 101,486          | 204,365           |
| 2 years.....                    | 90,697           | 88,943           | 179,640          | 105,801          | 104,144          | 209,945          | 111,910          | 109,668          | 221,578           |
| 3 years.....                    | 89,688           | 87,730           | 177,418          | 108,415          | 106,203          | 214,618          | 113,021          | 111,110          | 224,131           |
| 4 years.....                    | 86,922           | 84,643           | 171,565          | 108,671          | 106,878          | 215,549          | 112,432          | 109,241          | 221,673           |
| <b>Totals, Under 5 Years...</b> | <b>448,219</b>   | <b>439,264</b>   | <b>887,483</b>   | <b>533,390</b>   | <b>524,159</b>   | <b>1,057,549</b> | <b>543,172</b>   | <b>531,243</b>   | <b>1,074,415</b>  |
| 5 to 9 years....                | 395,045          | 388,207          | 783,252          | 528,663          | 520,031          | 1,048,694        | 572,507          | 560,242          | 1,132,749         |
| 10 to 14 "....                  | 354,911          | 345,401          | 700,312          | 461,282          | 451,805          | 913,087          | 542,930          | 531,121          | 1,074,051         |
| 15 to 19 "....                  | 351,244          | 329,129          | 680,373          | 403,235          | 398,545          | 801,780          | 525,250          | 514,341          | 1,039,591         |
| 20 to 24 "....                  | 385,855          | 320,435          | 706,290          | 350,971          | 360,198          | 711,169          | 483,722          | 447,463          | 931,185           |
| 25 to 29 "....                  | 370,494          | 287,684          | 658,178          | 347,622          | 338,852          | 686,474          | 409,976          | 376,305          | 786,281           |
| 30 to 34 "....                  | 310,339          | 244,777          | 555,116          | 343,237          | 309,608          | 652,845          | 368,135          | 340,701          | 708,836           |
| 35 to 39 "....                  | 257,875          | 200,904          | 458,779          | 342,300          | 290,066          | 632,366          | 359,081          | 329,382          | 688,463           |
| 40 to 44 "....                  | 213,018          | 176,677          | 389,695          | 286,451          | 240,051          | 526,502          | 347,763          | 298,336          | 646,099           |
| 45 to 49 "....                  | 178,715          | 152,768          | 331,483          | 236,884          | 198,126          | 435,011          | 321,513          | 263,098          | 584,611           |
| 50 to 54 "....                  | 152,718          | 132,366          | 285,084          | 195,133          | 166,811          | 361,944          | 267,332          | 221,349          | 488,681           |
| 55 to 59 "....                  | 112,952          | 100,096          | 213,048          | 148,133          | 132,163          | 280,296          | 199,160          | 167,665          | 366,825           |
| 60 to 64 "....                  | 94,318           | 83,786           | 178,104          | 126,397          | 112,881          | 239,278          | 156,912          | 137,685          | 294,597           |
| 65 to 69 "....                  | 67,626           | 63,523           | 131,149          | 90,615           | 81,381           | 171,996          | 120,695          | 110,439          | 231,134           |
| 70 to 74 "....                  | 47,807           | 46,197           | 94,004           | 60,579           | 56,846           | 117,425          | 88,581           | 83,019           | 171,600           |
| 75 to 79 "....                  | 30,266           | 29,260           | 59,526           | 35,583           | 35,767           | 71,350           | 50,017           | 48,612           | 98,629            |
| 80 to 84 "....                  | 15,550           | 15,921           | 31,471           | 18,136           | 19,468           | 37,604           | 23,877           | 25,294           | 49,171            |
| 85 to 89 "....                  | 6,184            | 6,687            | 12,871           | 7,142            | 8,236            | 15,378           | 8,665            | 10,464           | 19,129            |
| 90 to 94 "....                  | 1,693            | 2,010            | 3,703            | 1,800            | 2,380            | 4,180            | 2,051            | 2,881            | 4,932             |
| 95 to 99 "....                  | 417              | 502              | 919              | 412              | 565              | 977              | 417              | 656              | 1,073             |
| 100 and over....                | 62               | 68               | 130              | 90               | 93               | 183              | 74               | 89               | 163               |
| Not given.....                  | 26,687           | 9,996            | 36,683           | 11,588           | 9,674            | 21,262           | 2,711            | 1,060            | 3,771             |
| <b>Totals, Population.....</b>  | <b>3,821,995</b> | <b>3,384,648</b> | <b>7,206,643</b> | <b>4,529,643</b> | <b>4,258,306</b> | <b>8,787,949</b> | <b>5,374,541</b> | <b>5,002,245</b> | <b>10,376,786</b> |

**Age Distribution by Sex.**—Table 18 shows the quartile and decile age distributions by sex of the populations for each decennial census 1881-1931. These quartiles and deciles are obtained by arranging the male and female populations according to age and then dividing each array into four or ten equal parts as the case may be. The increasing average age of the population from census to census is clearly shown in the results. In 1881 one-quarter of the male population were 9.27 years of age and under, one half were 20.05 years and under, and three-quarters were 36.48 years and under. In 1931, on the other hand, one-quarter of the male population were of ages up to 12.10 years, one-half up to 25.48, and three-quarters up to 43.54 years. The female population has not shown quite as pronounced an increase in average age but a substantial increase is, nevertheless, strongly in evidence. Only in the Census of 1911, first quartile for females and third quartile for both males and females, and in the Census of 1921, first quartile for both males and females, was the upward trend of average age interrupted.

In the second part of the table the deciles show with more detail the information given by the quartiles. For instance, we see clearly that the greatest increase in average age over the 50-year period has taken place in the seventh decile, *i.e.*, in the "thirties", for both males and females and that the average age of the population in the "forties" and later, while clearly increasing, has done so with diminishing force. The influences which affect the age distribution are the birth rate and immigration. There is evidence to show that the first showed a steady reduction over the country as a whole in the '70's, '80's and '90's of last century and probably also in the early years of the twentieth century. Its effect would be felt in the younger sections first, but would be carried throughout the entire population with the passage of time, and would account for the gradual increase in average age shown in all quartiles and deciles up to 1911. Quite clearly, there is a break in the degree of increase shown in the first and second quartiles for 1911 and 1921. This could be accounted for by a temporary increase in the birth rate beginning early in the present century, which other evidence supports. The fact that such increase in the birth rate was only temporary is supported, too, by the re-establishment of the trend of increasing age in the data for 1931.

Immigration does not directly affect the younger sections of the population except to a very small degree. It immediately affects the middle-aged groups, but its effect is carried to the older groups as time goes by. The very heavy immigration of the early years of the century (1900-1911) would thus immediately affect mainly the age groups in the late "teens" and the early "twenties", and although immigration was later cut down very severely the influence of these earlier accretions to the population would creep through the upper age groups year by year. The seventh decile shows that it has now reached to those of our people in the "forties" and without doubt it will creep into the higher age groups as future censuses come to be taken.

**18.—Quartile and Decile Ages of the Populations of Canada at each of the Decennial Censuses, by Sex, 1881-1931.**

| Position in Array<br>by Age. |                   | 1881. |              | 1891. |              | 1901. |              | 1911. |              | 1921. |              | 1931. |              |
|------------------------------|-------------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|
|                              |                   | Males | Fe-<br>males | Males | Fe-<br>males | Males | Fe-<br>males | Males | Fe-<br>males | Males | Fe-<br>males | Males | Fe-<br>males |
| First                        | Quartile Yrs..... | 9.27  | 9.32         | 10.07 | 9.98         | 10.76 | 10.47        | 11.49 | 10.23        | 10.73 | 10.20        | 12.10 | 11.50        |
| Second                       | " " .....         | 20.05 | 20.05        | 21.54 | 21.28        | 22.91 | 22.37        | 24.51 | 22.89        | 24.74 | 23.19        | 25.48 | 24.07        |
| Third                        | " " .....         | 36.48 | 35.68        | 38.03 | 37.34        | 39.89 | 39.28        | 39.46 | 39.20        | 41.36 | 39.88        | 43.54 | 42.03        |
| First                        | Decile Yrs.....   | 3.62  | 3.66         | 4.00  | 3.97         | 4.20  | 4.08         | 4.21  | 3.80         | 4.25  | 4.07         | 4.95  | 4.72         |
| Second                       | " " .....         | 7.35  | 7.39         | 8.02  | 7.96         | 8.54  | 8.30         | 8.93  | 8.03         | 8.50  | 8.13         | 9.64  | 9.19         |
| Third                        | " " .....         | 11.29 | 11.37        | 12.24 | 12.16        | 13.07 | 12.75        | 14.16 | 12.68        | 13.18 | 12.55        | 14.57 | 13.85        |
| Fourth                       | " " .....         | 15.50 | 15.65        | 16.71 | 16.59        | 17.82 | 17.42        | 19.55 | 17.69        | 18.52 | 17.55        | 19.68 | 18.68        |
| Fifth                        | " " .....         | 20.05 | 20.05        | 21.54 | 21.28        | 22.91 | 22.37        | 24.51 | 22.89        | 24.74 | 23.19        | 25.48 | 24.07        |
| Sixth                        | " " .....         | 25.20 | 24.89        | 27.03 | 26.52        | 28.81 | 28.08        | 29.61 | 28.52        | 31.25 | 29.34        | 32.27 | 30.59        |
| Seventh                      | " " .....         | 32.18 | 31.53        | 33.88 | 33.20        | 35.95 | 35.18        | 35.78 | 35.18        | 37.84 | 36.22        | 39.69 | 38.04        |
| Eighth                       | " " .....         | 41.38 | 40.37        | 42.79 | 42.11        | 44.35 | 43.89        | 43.81 | 43.82        | 45.36 | 44.27        | 47.60 | 46.39        |
| Ninth                        | " " .....         | 54.05 | 52.89        | 55.11 | 54.43        | 56.26 | 56.14        | 54.91 | 55.52        | 56.25 | 55.93        | 57.91 | 57.63        |

### Section 5.—Racial Origins.

In six out of the seven censuses of Canada since Confederation the racial origin of each person has been secured, the exception being in 1891. The object of this information is to ascertain from what basic ethnic stocks the Canadian population, more particularly the recently immigrated population, is derived. The answer "Canadian" is not accepted under this heading, as the purpose of the question is to obtain, in so far as possible, a definition of "Canadian" in terms of racial derivation. Of this procedure of the census, criticism has been received on two main grounds: (a) that there are Canadians whose family is of several generations residence in the country who may not know their ultimate racial origin, or who may be of very mixed racial origin; (b) that the practice tends to perpetuate racial distinctions which it is desirable to obliterate. As against these criticisms the following three points must be considered: (a) that the Canadian whose family is of three or more generations residence is enumerated and differentiated through the question on the birth place of parents above described; (b) that notwithstanding the desirability of racial assimilation, there are special features in connection with the process that require appraisalment and study—for example, 271 children of Chinese fathers and 842 of Japanese fathers were born in Canada in 1931. Again, the fact that the constitution of Canada is based on the presence of two dominant races points to the desirability of a measurement of these factors: only recently it has been widely pointed out that the original French colony, numbering 75,000 at the date of the Conquest, has expanded to over three millions to-day. Measurements of this kind would be impossible if the answer "Canadian" instead of "French" were accepted under the heading of racial origin, yet undoubtedly if the descendants of the original French colonists are not "Canadians", no one is; (c) finally, racial origin is an important subject for study in a "new" country like Canada from a



scientific standpoint, *i.e.*, from the standpoint of the student of ethnology, criminology, and the social and "biometric" sciences in general.

To accept the answer "Canadian" to the question on racial origin would confuse the data and defeat the purpose for which the question is asked.

**Racial Distribution.**—The total increase in population over the decade 1921-31 was 1,588,837. The population of English origin increased by only 196,061 compared with 722,208 in the previous decade; that of Scottish origin by 172,725 compared with 175,745; and that of Irish origin by 123,005 compared with 57,419. The population of British origin, taken together, increased from 4,868,738 to 5,381,071, or by 512,333, between 1921 and 1931. This represented 32 p.c. of the total increase as compared with 61 p.c. of the total increase for the previous decade. On the other hand the population of French origin increased from 2,452,743 in 1921 to 2,927,990 in 1931, or by 475,247 (slightly under 30 p.c. of the total increase for the decade) and showed the greatest absolute increase for any decade since 1871. Figures for the minor racial groups which make up the nation (see Table 19) would indicate that the people of Scandinavian, German and Ukrainian origins increased between 1921 and 1931 by 36 p.c., 61 p.c. and 111 p.c., respectively. Owing to the new national and racial alignments in Central and Southeastern Europe following the Great War, comparison of the post-war numerical strength of certain ethnic stocks in Canada with pre-war returns cannot be made with any certainty. For example a number of people reported as of Ukrainian stock in the seventh census were described in the Censuses of 1921 and 1911 as Galician, Bukovinian, Ruthenian or Russian.

A perspective of the actual relationship of the origin groups to the population as a whole is obtained by a study of Table 20 where the proportion which the people of each origin bear to total population is given for each census for which the figures are available. Here it is clearly seen that the relative position of the English group showed substantial improvement up to 1921 (when for the first time it superseded the French) but, in 1931, there was a decided check. The French group, on the other hand, which showed a gradual decline between 1871 and 1901 and a more pronounced one in 1911 and 1921, has improved its relative position considerably and in 1931 is once again the foremost single racial group.

Together the British and French groups now constitute 80 p.c. of the total population, compared with 83 p.c. in 1921 and 1911, 88 p.c. in 1901, 89 p.c. in 1881 and no less than 92 p.c. in 1871.

The pronounced decline after 1901 in the combined proportion of the two major racial groups, *viz.*, British and French, with a corresponding increase in ethnic stocks of minor importance, has in the main been due to the immigration of continental Europeans to Canada during the past thirty years. Altogether, the percentage of the total population of European racial origin, other than British and French,

increased from 8.53 p.c. of the total in 1901, to 12.82 p.c. in 1911, to 14.19 p.c. in 1921, and to 17.59 p.c. in 1931.

Oriental immigration to Canada in the past thirty years has been responsible for the relative increase of the Chinese and Japanese racial groups from 0.41 p.c. in 1901 to 0.67 p.c. in 1931. In the same period the population of Negro origin has declined from 0.32 p.c. to 0.19 p.c. of the total, and that of Indian and Eskimo origin from 2.38 p.c. to 1.24 p.c.

The racial origin of the population of Canada, by provinces and territories, is given in Table 21 for the Census of 1931.

### 19.—Origins of the People According to the Censuses of 1871, 1881, 1901, 1911, 1921 and 1931.

NOTE.—Origins were not taken in the Census of 1891. N.o.p.=Not otherwise provided for.

| Origin.                              | 1871. <sup>a</sup> | 1881.            | 1901.            | 1911.            | 1921.            | 1931.             |
|--------------------------------------|--------------------|------------------|------------------|------------------|------------------|-------------------|
|                                      | No.                | No.              | No.              | No.              | No.              | No.               |
| British—                             |                    |                  |                  |                  |                  |                   |
| English.....                         | 706,369            | 881,301          | 1,260,899        | 1,823,150        | 2,545,358        | 2,741,419         |
| Irish.....                           | 846,414            | 957,403          | 988,721          | 1,050,384        | 1,107,803        | 1,230,808         |
| Scottish.....                        | 549,946            | 699,863          | 800,154          | 997,880          | 1,173,625        | 1,346,350         |
| Other.....                           | 7,773              | 9,947            | 13,421           | 25,571           | 41,952           | 62,494            |
| <b>Totals, British.....</b>          | <b>2,110,502</b>   | <b>2,548,514</b> | <b>3,063,195</b> | <b>3,896,985</b> | <b>4,868,738</b> | <b>5,381,071</b>  |
| French.....                          | 1,082,940          | 1,298,929        | 1,649,371        | 2,054,890        | 2,452,743        | 2,927,990         |
| Austrian, n.o.p.....                 | —                  | —                | 10,947           | 42,535           | 107,671          | 48,639            |
| Belgian.....                         | —                  | —                | 2,994            | 9,593            | 20,234           | 27,585            |
| Bulgarian and Roumanian...           | —                  | —                | 354              | 5,875            | 15,235           | 32,216            |
| Chinese.....                         | —                  | 4,383            | 17,312           | 27,774           | 39,587           | 46,519            |
| Czech (Bohemian and Moravian).....   | —                  | —                | —                | —                | 8,840            | 30,401            |
| Dutch.....                           | 29,662             | 30,412           | 33,845           | 54,986           | 117,505          | 148,962           |
| Finnish.....                         | —                  | —                | 2,502            | 15,497           | 21,494           | 43,885            |
| German.....                          | 202,991            | 254,319          | 310,501          | 393,320          | 294,635          | 473,544           |
| Greek.....                           | —                  | —                | 291              | 3,594            | 5,740            | 9,444             |
| Hebrew.....                          | 125                | 667              | 16,131           | 75,681           | 126,196          | 156,726           |
| Hungarian.....                       | —                  | —                | 1,549            | 11,605           | 13,181           | 40,582            |
| Indian and Eskimo <sup>1</sup> ..... | 23,037             | 108,547          | 127,941          | 105,492          | 113,724          | 128,890           |
| Italian.....                         | 1,035              | 1,849            | 10,834           | 45,411           | 66,769           | 98,173            |
| Japanese.....                        | —                  | —                | 4,738            | 9,021            | 15,868           | 23,342            |
| Negro.....                           | 21,496             | 21,394           | 17,437           | 16,877           | 18,291           | 19,456            |
| Polish.....                          | —                  | —                | 6,285            | 33,365           | 53,403           | 145,503           |
| Russian.....                         | 607                | 1,227            | 19,825           | 43,142           | 100,064          | 88,148            |
| Scandinavian <sup>2</sup> .....      | 1,623              | 5,223            | 31,042           | 107,535          | 167,359          | 228,049           |
| Ukrainian.....                       | —                  | —                | 5,682            | 74,963           | 106,721          | 225,113           |
| Yugoslavia.....                      | —                  | —                | —                | —                | 3,906            | 16,174            |
| Various.....                         | 4,182              | 8,540            | 7,000            | 31,157           | 28,796           | 27,476            |
| Unspecified.....                     | 7,561              | 40,806           | 31,539           | 147,345          | 21,249           | 8,898             |
| <b>Grand Totals.....</b>             | <b>3,485,761</b>   | <b>4,324,810</b> | <b>5,371,315</b> | <b>7,206,643</b> | <b>8,787,949</b> | <b>10,376,786</b> |

For footnotes see end of Table 20, p. 123.

**20.—Percentage which the People of Each Origin Formed of the Total Population, According to the Censuses of 1871, 1881, 1901, 1911, 1921 and 1931.**

NOTE.—Origins were not taken in the Census of 1891. N.o.p.=Not otherwise provided for.

| Origin.                                 | Percentages of Total Populations. |              |              |              |              |              |
|-----------------------------------------|-----------------------------------|--------------|--------------|--------------|--------------|--------------|
|                                         | 1871. <sup>a</sup>                | 1881.        | 1901.        | 1911.        | 1921.        | 1931.        |
|                                         | p.c.                              | p.c.         | p.c.         | p.c.         | p.c.         | p.c.         |
| British—                                |                                   |              |              |              |              |              |
| English.....                            | 20.26                             | 20.38        | 23.47        | 25.30        | 28.96        | 26.42        |
| Irish.....                              | 24.28                             | 22.14        | 18.41        | 14.58        | 12.61        | 11.86        |
| Scottish.....                           | 15.78                             | 16.18        | 14.90        | 13.85        | 13.35        | 12.97        |
| Other.....                              | 0.22                              | 0.23         | 0.25         | 0.35         | 0.48         | 0.60         |
| <b>Totals, British.....</b>             | <b>60.55</b>                      | <b>58.93</b> | <b>57.03</b> | <b>54.07</b> | <b>55.40</b> | <b>51.86</b> |
| French.....                             | 31.07                             | 30.03        | 30.71        | 28.51        | 27.91        | 28.22        |
| Austrian, n.o.p.....                    | —                                 | —            | 0.20         | 0.59         | 1.23         | 0.47         |
| Belgian.....                            | —                                 | —            | 0.06         | 0.13         | 0.23         | 0.27         |
| Bulgarian and Roumanian...              | —                                 | —            | 0.01         | 0.08         | 0.17         | 0.31         |
| Chinese.....                            | —                                 | 0.10         | 0.32         | 0.39         | 0.45         | 0.45         |
| Czech (Bohemian and Mora-<br>vian)..... | —                                 | —            | —            | —            | 0.10         | 0.29         |
| Dutch.....                              | 0.85                              | 0.70         | 0.63         | 0.76         | 1.34         | 1.44         |
| Finnish.....                            | —                                 | —            | 0.05         | 0.22         | 0.24         | 0.42         |
| German.....                             | 5.82                              | 5.88         | 5.78         | 5.46         | 3.35         | 4.56         |
| Greek.....                              | —                                 | —            | 0.01         | 0.05         | 0.07         | 0.09         |
| Hebrew.....                             | —                                 | 0.02         | 0.30         | 1.05         | 1.44         | 1.51         |
| Hungarian.....                          | —                                 | —            | 0.03         | 0.16         | 0.15         | 0.39         |
| Indian and Eskimo <sup>1</sup> .....    | 0.66                              | 2.51         | 2.38         | 1.46         | 1.29         | 1.24         |
| Italian.....                            | 0.03                              | 0.04         | 0.20         | 0.63         | 0.76         | 0.95         |
| Japanese.....                           | —                                 | —            | 0.09         | 0.13         | 0.18         | 0.22         |
| Negro.....                              | 0.62                              | 0.49         | 0.32         | 0.23         | 0.21         | 0.19         |
| Polish.....                             | —                                 | —            | 0.12         | 0.46         | 0.61         | 1.40         |
| Russian.....                            | 0.02                              | 0.03         | 0.37         | 0.60         | 1.14         | 0.85         |
| Scandinavian <sup>2</sup> .....         | 0.05                              | 0.12         | 0.58         | 1.49         | 1.90         | 2.20         |
| Ukrainian.....                          | —                                 | —            | 0.11         | 1.04         | 1.21         | 2.17         |
| Yugoslavic.....                         | —                                 | —            | —            | —            | 0.04         | 0.16         |
| Various.....                            | 0.12                              | 0.20         | 0.13         | 0.43         | 0.33         | 0.26         |
| Unspecified.....                        | 0.22                              | 0.94         | 0.59         | 2.04         | 0.24         | 0.09         |
| <b>Grand Totals.....</b>                | <b>100.0</b>                      | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> |

<sup>1</sup>Incomplete in 1871; includes "half-breeds" in 1901. <sup>2</sup>Includes Danish, Icelandic, Norwegian and Swedish; in 1921 they numbered respectively 21,124, 15,876, 68,856 and 61,503; in 1931, 34,118, 19,382, 93,243 and 81,306. <sup>3</sup>The figures for 1871 cover the four original provinces of Canada only.

## 21.—Racial Origins of the Population,

| No. | Origin.                           | P. E.<br>Island. | Nova<br>Scotia. | New<br>Brunswick. | Quebec.          |
|-----|-----------------------------------|------------------|-----------------|-------------------|------------------|
|     |                                   | No.              | No.             | No.               | No.              |
| 1   | <i>British Races</i> .....        | 78,758           | 391,878         | 255,567           | 432,726          |
| 2   | English.....                      | 23,398           | 193,170         | 129,911           | 234,739          |
| 3   | Irish.....                        | 17,698           | 56,453          | 66,873            | 108,312          |
| 4   | Scottish.....                     | 32,489           | 139,992         | 56,561            | 87,300           |
| 5   | Other.....                        | 173              | 2,263           | 2,222             | 2,375            |
| 6   | <i>Other European Races</i> ..... | 13,779           | 109,486         | 143,637           | 2,418,209        |
| 7   | French.....                       | 12,962           | 56,629          | 136,999           | 2,270,059        |
| 8   | Austrian, n.o.p.....              | 8                | 342             | 87                | 2,032            |
| 9   | Belgian.....                      | 4                | 631             | 193               | 4,324            |
| 10  | Bulgarian.....                    | —                | 106             | 47                | 206              |
| 11  | Czech and Slovak.....             | 4                | 452             | 19                | 4,430            |
| 12  | Danish.....                       | 124              | 771             | 1,499             | 1,740            |
| 13  | Dutch.....                        | 300              | 13,412          | 3,602             | 1,824            |
| 14  | Finnish.....                      | 1                | 99              | 135               | 2,973            |
| 15  | German.....                       | 282              | 27,098          | 2,659             | 10,616           |
| 16  | Greek.....                        | 1                | 294             | 78                | 2,466            |
| 17  | Hebrew.....                       | 20               | 2,046           | 1,262             | 60,087           |
| 18  | Hungarian.....                    | 4                | 580             | 53                | 4,018            |
| 19  | Icelandic.....                    | 1                | 5               | —                 | 30               |
| 20  | Italian.....                      | 28               | 1,897           | 405               | 24,845           |
| 21  | Lithuanian.....                   | —                | 187             | 1                 | 2,343            |
| 22  | Norwegian.....                    | 17               | 501             | 601               | 1,504            |
| 23  | Polish.....                       | —                | 1,488           | 121               | 9,534            |
| 24  | Roumanian.....                    | —                | 189             | 41                | 3,068            |
| 25  | Russian.....                      | —                | 575             | 148               | 3,574            |
| 26  | Swedish.....                      | 20               | 576             | 525               | 1,658            |
| 27  | Ukrainian.....                    | —                | 871             | 12                | 4,340            |
| 28  | Yugoslavic.....                   | —                | 253             | 11                | 1,562            |
| 29  | Other European.....               | 3                | 484             | 129               | 976              |
| 30  | <i>Asiatic Races</i> .....        | 166              | 1,559           | 873               | 7,034            |
| 31  | Chinese.....                      | 31               | 340             | 231               | 2,750            |
| 32  | Japanese.....                     | —                | 4               | —                 | 43               |
| 33  | Other Asiatic.....                | 135              | 1,215           | 642               | 4,241            |
| 34  | Eskimo.....                       | —                | —               | —                 | 1,159            |
| 35  | Indian.....                       | 233              | 2,191           | 1,685             | 12,312           |
| 36  | Negro.....                        | 70               | 7,361           | 1,150             | 1,649            |
| 37  | Various.....                      | —                | 20              | 5                 | 154              |
| 38  | Unspecified.....                  | 32               | 351             | 312               | 1,012            |
|     | <b>Totals, Population</b> .....   | <b>88,038</b>    | <b>512,846</b>  | <b>408,219</b>    | <b>2,874,255</b> |

## Section 6.—Religions.

At each of the censuses from 1871 to 1931 every inhabitant of Canada has been asked to state the religious body of which he is a member or an adherent. During the sixty-year period there have been various fluctuations in the proportions of the population belonging to the leading religious bodies, and these fluctuations are, in a new country like this, largely occasioned by the religious affiliations of immigrants.

From Table 23, it will be seen that throughout the sixty-year period something like two-fifths of the population of Canada has been of the Roman Catholic faith, the 1931 percentage, inclusive of Greek Catholics, being 41·30. Methodists were 16·27 p.c. of the population in 1871 but fell to 13·19 p.c. in 1921, while Presbyterians increased from 15·63 p.c. in 1871 to 16·04 p.c. in 1921, being reinforced by a considerable immigration from Scotland after the beginning of the century. The fusion of the Methodists and Congregationalists in 1925 with a large section of the Presbyterians, as the United Church of Canada, left that body the second largest religious body in the Dominion in 1931 with 19·44 p.c. of the population. The Presbyterians who did not adhere to the United Church of Canada numbered 8·39 p.c. of the population in 1931. The proportion of Anglicans in the population of Canada fell from 14·17 p.c. in 1871 to 12·69 p.c. in 1901 but thereafter the large immigration from the British Isles raised it to 16·02 p.c. in 1921, followed by a



## by Provinces and Territories, Census of 1931.

| Ontario.         | Manitoba.      | Saskatchewan.  | Alberta.       | British Columbia. | Yukon.       | Northwest Territories. | Canada.           | No. |
|------------------|----------------|----------------|----------------|-------------------|--------------|------------------------|-------------------|-----|
| No.              | No.            | No.            | No.            | No.               | No.          | No.                    | No.               |     |
| 2,559,771        | 368,010        | 437,886        | 389,233        | 439,983           | 1,741        | 623                    | 5,331,071         | 1   |
| 1,319,612        | 172,992        | 205,519        | 188,456        | 272,501           | 825          | 296                    | 2,741,419         | 2   |
| 647,831          | 77,559         | 104,096        | 79,978         | 71,612            | 298          | 98                     | 1,230,808         | 3   |
| 549,648          | 112,326        | 121,485        | 110,720        | 135,038           | 576          | 215                    | 1,346,350         | 4   |
| 22,680           | 5,133          | 6,736          | 10,084         | 10,772            | 42           | 14                     | 62,494            | 5   |
| 337,469          | 313,309        | 463,303        | 380,648        | 127,246           | 798          | 369                    | 4,763,242         | 6   |
| 299,732          | 47,039         | 50,700         | 38,377         | 15,028            | 250          | 215                    | 2,927,990         | 7   |
| 9,607            | 8,858          | 17,061         | 6,737          | 3,891             | 14           | 2                      | 48,639            | 8   |
| 7,310            | 6,323          | 4,458          | 2,726          | 1,597             | 16           | 3                      | 27,585            | 9   |
| 2,415            | 36             | 126            | 146            | 76                | 2            | -                      | 3,160             | 10  |
| 8,871            | 2,396          | 5,056          | 6,404          | 2,756             | 9            | 4                      | 30,401            | 11  |
| 4,718            | 3,235          | 6,630          | 11,403         | 3,945             | 34           | 19                     | 34,118            | 12  |
| 60,241           | 24,957         | 24,695         | 13,665         | 6,234             | 26           | 6                      | 148,962           | 13  |
| 27,137           | 1,013          | 2,313          | 3,318          | 6,858             | 34           | 4                      | 43,885            | 14  |
| 174,006          | 38,078         | 129,232        | 74,450         | 16,986            | 98           | 39                     | 473,544           | 15  |
| 4,195            | 295            | 534            | 601            | 977               | 3            | -                      | 9,444             | 16  |
| 62,383           | 19,341         | 5,116          | 3,722          | 2,743             | 4            | 2                      | 156,726           | 17  |
| 13,786           | 1,955          | 13,363         | 5,502          | 1,313             | 8            | -                      | 40,582            | 18  |
| 326              | 13,450         | 3,841          | 870            | 858               | -            | 1                      | 19,382            | 19  |
| 50,556           | 2,379          | 1,040          | 4,766          | 12,254            | 22           | 1                      | 98,173            | 20  |
| 1,521            | 370            | 529            | 678            | 245               | 1            | 1                      | 5,876             | 21  |
| 5,172            | 5,263          | 39,755         | 27,360         | 12,943            | 108          | 19                     | 93,243            | 22  |
| 42,384           | 40,243         | 25,961         | 21,157         | 4,599             | 12           | 4                      | 145,503           | 23  |
| 8,267            | 2,087          | 9,530          | 4,712          | 1,162             | -            | -                      | 29,056            | 24  |
| 10,050           | 11,573         | 35,421         | 16,381         | 10,398            | 14           | 14                     | 88,148            | 25  |
| 10,544           | 9,449          | 22,458         | 19,828         | 16,108            | 112          | 28                     | 81,306            | 26  |
| 24,426           | 73,606         | 63,400         | 55,872         | 2,583             | 2            | 1                      | 225,113           | 27  |
| 8,100            | 291            | 1,686          | 1,335          | 2,911             | 20           | 5                      | 16,174            | 28  |
| 1,742            | 1,072          | 397            | 638            | 781               | 9            | 1                      | 6,232             | 29  |
| 12,297           | 2,255          | 4,419          | 4,989          | 50,951            | 64           | 11                     | 84,548            | 30  |
| 6,919            | 1,732          | 3,501          | 3,875          | 27,139            | 1            | -                      | 46,519            | 31  |
| 220              | 51             | 114            | 652            | 22,205            | 52           | 1                      | 23,342            | 32  |
| 5,158            | 472            | 804            | 402            | 1,607             | 1            | 10                     | 14,687            | 33  |
| -                | 62             | -              | 3              | -                 | 85           | 4,670                  | 5,979             | 34  |
| 30,368           | 15,417         | 15,268         | 15,249         | 24,599            | 1,543        | 4,046                  | 122,911           | 35  |
| 6,886            | 465            | 410            | 924            | 533               | 8            | -                      | 19,456            | 36  |
| 287              | 43             | 27             | 45             | 96                | -            | 4                      | 681               | 37  |
| 4,605            | 578            | 523            | 569            | 915               | 1            | -                      | 8,898             | 38  |
| <b>3,431,683</b> | <b>700,139</b> | <b>921,785</b> | <b>731,605</b> | <b>694,263</b>    | <b>4,230</b> | <b>9,723</b>           | <b>10,376,786</b> |     |

slight falling off to 15.76 p.c. in 1931. The Baptists have shown a fairly steady decline from 6.87 p.c. in 1871 to 4.27 p.c. in 1931.

The immigration from non-English-speaking countries during the first three decades of the twentieth century has led to a great growth of the religious bodies whose members come from the continent of Europe. Thus the Lutherans, who were only 1.09 p.c. of the population in 1871 and 1.72 p.c. in 1901, have risen to 3.80 p.c. in 1931. The Jews, again, who were only 0.03 p.c. in 1871 and 0.31 p.c. in 1901, were 1.50 p.c. in 1931. The adherents of the Greek Orthodox Church, who in earlier years were not distinguished from Greek Catholics (the two together being only 0.29 p.c. in 1901) were 0.99 p.c. in 1931.

Of the total population in 1931 (10,376,786), 16,042 or 0.15 p.c. did not state their religion while 54,164 or 0.52 p.c., persons belonging to small sects, were classed as "various" and 21,071 or 0.20 p.c. as of "no religion". Of the non-Christian sects, 155,614 or 1.50 p.c. were Jews, 24,087 or 0.23 p.c. were Confucians, 15,784 or 0.15 p.c. were Buddhists and 5,008 or 0.05 p.c. were pagans. The figures in the following tables are revised and final. In Table 22 the totals for each religion are brought together for all censuses since Confederation; Table 23 gives the same information as Table 22 in the form of percentages to total populations for the census years; Table 24 gives the 1931 census figures of the numbers of persons accredited to each of 31 specified religions, by provinces.

## 22.—Religions of the People at each Decennial Census, 1871-1931.

| Religion.                                        | 1871. <sup>a</sup>   | 1881.                | 1891.                | 1901.             | 1911.               | 1921.               | 1931.                  |
|--------------------------------------------------|----------------------|----------------------|----------------------|-------------------|---------------------|---------------------|------------------------|
|                                                  | No.                  | No.                  | No.                  | No.               | No.                 | No.                 | No.                    |
| Adventist.....                                   | 6,179                | 7,211                | 6,354                | 8,058             | 10,406              | 14,179              | 16,026                 |
| Anglican.....                                    | 494,049              | 574,818              | 646,059              | 681,494           | 1,043,017           | 1,407,780           | 1,635,615              |
| Baptist <sup>1</sup> .....                       | 239,343 <sup>7</sup> | 296,525 <sup>7</sup> | 303,839 <sup>7</sup> | 318,005           | 382,720             | 421,730             | 443,341                |
| Brethren.....                                    | 2,305                | 8,831                | 11,637               | 8,014             | 9,278               | 11,580              | 13,472                 |
| Buddhist.....                                    | —                    | —                    | —                    | 10,407            | 10,012              | 11,281              | 15,784                 |
| Christian.....                                   | —                    | —                    | —                    | 7,484             | 17,421              | 17,142              | 11,527                 |
| Christian Science.....                           | —                    | —                    | —                    | 2,619             | 5,073               | 13,826              | 18,436                 |
| Church of Christ, Disciples...<br>Confucian..... | —<br>—               | 20,193<br>—          | 12,763<br>—          | 17,164<br>5,115   | 14,554<br>14,562    | 13,107<br>27,114    | 15,811<br>24,087       |
| Congregationalist.....                           | 21,829               | 26,900               | 28,157               | 28,293            | 34,054              | 30,730              | 694 <sup>2</sup>       |
| Doukhorob.....                                   | —                    | —                    | —                    | 8,775             | 10,493              | 12,648              | 14,913                 |
| Evangelical Association.....                     | —                    | —                    | —                    | 10,193            | 10,595              | 13,905              | 22,213                 |
| Friends (Quaker).....                            | 7,345                | 6,553                | 4,650                | 4,100             | 4,027               | 3,149               | 2,424                  |
| Greek Church.....                                | —                    | —                    | —                    | 15,630            | 88,507              | 169,832             | <sup>3</sup>           |
| Greek Orthodox.....                              | —                    | —                    | —                    | —                 | —                   | —                   | 102,389 <sup>3</sup>   |
| Holiness Movement.....                           | —                    | —                    | —                    | 2,775             | 3,856               | 3,245               | 4,436                  |
| International Bible Students..<br>Jewish.....    | —<br>1,115           | —<br>2,393           | —<br>6,414           | 99<br>16,401      | 925<br>74,564       | 6,678<br>125,197    | 13,552<br>155,614      |
| Lutheran.....                                    | 37,935               | 46,350               | 63,982               | 92,524            | 229,864             | 286,458             | 394,194                |
| Mennonite (inc. Hutterite)....<br>Methodist..... | 7<br>567,091         | 7<br>742,981         | 7<br>847,765         | 31,797<br>916,886 | 44,625<br>1,079,993 | 58,797<br>1,159,246 | 88,736<br>2            |
| Mormon.....                                      | —                    | —                    | —                    | 6,891             | 15,971              | 19,622              | 22,005                 |
| No religion.....                                 | 5,146                | 2,634                | <sup>4</sup>         | 4,810             | 26,027              | 21,739              | 21,071                 |
| Pagan.....                                       | 1,886                | 4,478                | <sup>5</sup>         | 15,107            | 11,840              | 6,778               | 5,008                  |
| Pentecostal.....                                 | —                    | —                    | —                    | —                 | 513                 | 7,003               | 26,301                 |
| Plymouth Brethren.....                           | —                    | —                    | —                    | 3,040             | 3,438               | 6,482               | 6,983                  |
| Presbyterian.....                                | 544,998              | 676,165              | 755,326              | 842,531           | 1,116,071           | 1,409,406           | 870,728 <sup>3</sup>   |
| Protestant.....                                  | 10,146               | 6,519                | 12,253               | 11,612            | 30,265              | 30,753              | 23,296                 |
| Roman Catholic.....                              | 1,492,029            | 1,791,982            | 1,992,017            | 2,229,600         | 2,833,041           | 3,389,626           | 4,285,388 <sup>4</sup> |
| Salvation Army.....                              | —                    | —                    | 13,949               | 10,308            | 18,834              | 24,733              | 30,716                 |
| Unitarian.....                                   | 2,275                | 2,126                | 1,777                | 1,934             | 3,224               | 4,926               | 4,445                  |
| United Church.....                               | —                    | —                    | —                    | —                 | —                   | 8,728 <sup>2</sup>  | 2,017,375 <sup>2</sup> |
| All other (various).....                         | 35,035               | 21,382               | 46,030               | 16,427            | 26,383              | 31,270              | 54,164                 |
| Not given.....                                   | 17,055               | 86,769               | 80,267               | 43,222            | 32,490              | 19,259              | 16,042                 |
| <b>Totals.....</b>                               | <b>3,485,761</b>     | <b>4,324,810</b>     | <b>4,833,239</b>     | <b>5,371,315</b>  | <b>7,206,643</b>    | <b>8,787,949</b>    | <b>10,376,786</b>      |

<sup>1</sup>Including Tunkers. <sup>2</sup>Practically all Methodists and Congregationalists and a large number of Presbyterians united to form the United Church of Canada in 1925, although a relatively small number reported themselves as "United Church" in 1921, chiefly in Western Canada where the movement towards union began. <sup>3</sup>In earlier censuses only small numbers were involved, and Greek Catholics and Greek Orthodox were included under the general term "Greek Church". A rapid increase of both Greek Catholics and Greek Orthodox has been shown for recent censuses and, since the former owe obedience to the Pope in matters of faith, they have been included with the Roman Catholics for 1931. <sup>4</sup>Including 186,654 Greek Catholics, see footnote 3. <sup>5</sup>Included with "all other" religions for 1891. <sup>6</sup>The figures for 1871 cover the four original provinces of Canada only. <sup>7</sup>Mennonites were included with Baptists prior to 1901.

23.—Percentages of Specified Religions at each Decennial Census, 1871-1931.

| Religion.                      | 1871. <sup>s</sup> | 1881.             | 1891.             | 1901.         | 1911.         | 1921.             | 1931.              |
|--------------------------------|--------------------|-------------------|-------------------|---------------|---------------|-------------------|--------------------|
|                                | p.c.               | p.c.              | p.c.              | p.c.          | p.c.          | p.c.              | p.c.               |
| Adventist.....                 | 0·18               | 0·17              | 0·13              | 0·15          | 0·14          | 0·16              | 0·15               |
| Anglican.....                  | 14·17              | 13·29             | 13·37             | 12·69         | 14·47         | 16·02             | 15·76              |
| Baptist <sup>1</sup> .....     | 6·87 <sup>7</sup>  | 6·86 <sup>7</sup> | 6·29 <sup>7</sup> | 5·92          | 5·31          | 4·80              | 4·27               |
| Brethren.....                  | 0·07               | 0·20              | 0·24              | 0·15          | 0·13          | 0·13              | 0·13               |
| Buddhist.....                  | —                  | —                 | —                 | 0·19          | 0·14          | 0·13              | 0·15               |
| Christian.....                 | —                  | —                 | —                 | 0·14          | 0·24          | 0·20              | 0·11               |
| Christian Science.....         | —                  | —                 | —                 | 0·05          | 0·07          | 0·16              | 0·18               |
| Church of Christ, Disciples... | —                  | 0·47              | 0·26              | 0·32          | 0·20          | 0·15              | 0·15               |
| Confucian.....                 | —                  | —                 | —                 | 0·10          | 0·20          | 0·31              | 0·23               |
| Congregationalist.....         | 0·63               | 0·62              | 0·58              | 0·53          | 0·47          | 0·35              | 0·01 <sup>2</sup>  |
| Doukhobor.....                 | —                  | —                 | —                 | 0·16          | 0·15          | 0·14              | 0·14               |
| Evangelical Association.....   | —                  | —                 | —                 | 0·19          | 0·15          | 0·16              | 0·21               |
| Friends (Quaker).....          | 0·21               | 0·15              | 0·10              | 0·08          | 0·06          | 0·04              | 0·02               |
| Greek Church.....              | —                  | —                 | —                 | 0·29          | 1·23          | 1·93              | 3                  |
| Greek Orthodox.....            | —                  | —                 | —                 | —             | —             | —                 | 0·99 <sup>3</sup>  |
| Holiness Movement.....         | —                  | —                 | —                 | 0·05          | 0·05          | 0·04              | 0·04               |
| International Bible Students.. | —                  | —                 | —                 | —             | 0·01          | 0·08              | 0·13               |
| Jewish.....                    | 0·03               | 0·06              | 0·13              | 0·31          | 1·03          | 1·42              | 1·50               |
| Lutheran.....                  | 1·09               | 1·07              | 1·32              | 1·72          | 3·19          | 3·26              | 3·80               |
| Mennonite (inc. Hutterite)...  | 7                  | 7                 | 7                 | 0·59          | 0·62          | 0·67              | 0·86               |
| Methodist.....                 | 16·27              | 17·18             | 17·54             | 17·07         | 14·99         | 13·19             | 3                  |
| Mormon.....                    | —                  | —                 | —                 | 0·13          | 0·22          | 0·22              | 0·21               |
| Noreligion.....                | 0·15               | 0·06              | 5                 | 0·09          | 0·36          | 0·25              | 0·20               |
| Pagan.....                     | 0·05               | 0·10              | 5                 | 0·28          | 0·16          | 0·08              | 0·05               |
| Pentecostal.....               | —                  | —                 | —                 | —             | 0·01          | 0·08              | 0·25               |
| Plymouth Brethren.....         | —                  | —                 | —                 | 0·06          | 0·05          | 0·07              | 0·07               |
| Presbyterian.....              | 15·63              | 15·63             | 15·63             | 15·69         | 15·49         | 16·04             | 8·39 <sup>2</sup>  |
| Protestant.....                | 0·29               | 0·15              | 0·25              | 0·22          | 0·42          | 0·35              | 0·22               |
| Roman Catholic.....            | 42·80              | 41·43             | 41·21             | 41·51         | 39·31         | 38·57             | 41·30 <sup>4</sup> |
| Salvation Army.....            | —                  | —                 | 0·29              | 0·19          | 0·26          | 0·28              | 0·30               |
| Unitarian.....                 | 0·07               | 0·05              | 0·04              | 0·04          | 0·04          | 0·06              | 0·04               |
| United Church.....             | —                  | —                 | —                 | —             | —             | 0·10 <sup>2</sup> | 19·44 <sup>2</sup> |
| All other (various).....       | 1·01               | 0·49              | 0·95              | 0·31          | 0·37          | 0·36              | 0·52               |
| Not given.....                 | 0·49               | 2·01              | 1·66              | 0·80          | 0·45          | 0·22              | 0·15               |
| <b>Totals.....</b>             | <b>100·00</b>      | <b>100·00</b>     | <b>100·00</b>     | <b>100·00</b> | <b>100·00</b> | <b>100·00</b>     | <b>100·00</b>      |

For footnotes see end of Table 22, p. 126.

## 24.—Religions of the People, by

| No. | Religion.                         | Prince<br>Edward<br>Island. | Nova<br>Scotia. | New<br>Brunswick. | Quebec.          |
|-----|-----------------------------------|-----------------------------|-----------------|-------------------|------------------|
|     |                                   | No.                         | No.             | No.               | No.              |
| 1   | Adventist.....                    | 13                          | 1,144           | 1,064             | 1,174            |
| 2   | Anglican .....                    | 5,074                       | 88,738          | 48,931            | 149,843          |
| 3   | Baptist.....                      | 5,066                       | 82,098          | 83,853            | 10,970           |
| 4   | Brethren.....                     | -                           | 96              | 336               | 757              |
| 5   | Buddhist.....                     | -                           | 2               | 3                 | 73               |
| 6   | Christadelphian.....              | 9                           | 8               | 30                | 29               |
| 7   | Christian.....                    | 794                         | 722             | 704               | 162              |
| 8   | Christian Science.....            | 2                           | 188             | 128               | 816              |
| 9   | Church of Christ, Disciples.....  | 596                         | 1,119           | 1,341             | 49               |
| 10  | Confucian.....                    | 3                           | 44              | 62                | 1,121            |
| 11  | Doukhobor.....                    | -                           | -               | -                 | -                |
| 12  | Evangelical Association.....      | 3                           | 11              | 5                 | 409              |
| 13  | Friends (Quaker).....             | 6                           | 13              | 5                 | 38               |
| 14  | Greek Orthodox.....               | 6                           | 315             | 75                | 8,992            |
| 15  | Holiness Movement.....            | -                           | 1               | 10                | 276              |
| 16  | International Bible Students..... | 16                          | 474             | 170               | 90               |
| 17  | Jewish.....                       | 19                          | 1,935           | 1,257             | 59,736           |
| 18  | Lutheran.....                     | 76                          | 7,949           | 969               | 8,261            |
| 19  | Mennonite (inc. Hutterite).....   | 2                           | 1               | -                 | 8                |
| 20  | Mormon.....                       | -                           | 42              | 51                | 49               |
| 21  | No religion.....                  | 30                          | 342             | 128               | 1,621            |
| 22  | Pagan.....                        | -                           | -               | -                 | 38               |
| 23  | Pentecostal.....                  | 188                         | 637             | 1,767             | 1,214            |
| 24  | Plymouth Brethren.....            | 2                           | 83              | 43                | 509              |
| 25  | Presbyterian.....                 | 14,813                      | 48,960          | 16,260            | 59,532           |
| 26  | Protestant.....                   | 20                          | 372             | 143               | 11,279           |
| 27  | Roman Catholic.....               | 39,105                      | 162,754         | 188,098           | 2,463,160        |
| 28  | Salvation Army.....               | 162                         | 2,665           | 946               | 1,135            |
| 29  | Unitarian.....                    | 17                          | 72              | 28                | 792              |
| 30  | United Brethren in Christ.....    | -                           | 2               | 12                | 8                |
| 31  | United Church.....                | 21,979                      | 110,548         | 61,176            | 88,253           |
| 32  | All other (various).....          | 31                          | 1,053           | 496               | 1,836            |
| 33  | Not given.....                    | 6                           | 458             | 128               | 2,025            |
|     | <b>Totals, Population.....</b>    | <b>88,038</b>               | <b>512,846</b>  | <b>408,219</b>    | <b>2,874,255</b> |



## Provinces, Census of 1931.

| Ontario.  | Manitoba. | Saskatchewan. | Alberta. | British Columbia. | Yukon. | Northwest Territories. | Canada.    | No. |
|-----------|-----------|---------------|----------|-------------------|--------|------------------------|------------|-----|
| No.       | No.       | No.           | No.      | No.               | No.    | No.                    | No.        |     |
| 2,353     | 897       | 3,381         | 4,213    | 1,786             | 1      | -                      | 16,026     | 1   |
| 764,130   | 128,385   | 126,837       | 112,979  | 205,047           | 2,299  | 3,352                  | 1,635,615  | 2   |
| 171,305   | 13,483    | 22,613        | 30,496   | 23,395            | 44     | 18                     | 443,341    | 3   |
| 7,640     | 675       | 1,099         | 1,192    | 1,677             | -      | -                      | 13,472     | 4   |
| 110       | 33        | 88            | 366      | 15,074            | 35     | -                      | 15,784     | 5   |
| 1,364     | 102       | 77            | 136      | 377               | -      | 1                      | 2,133      | 6   |
| 4,302     | 367       | 1,098         | 2,315    | 875               | 6      | 182                    | 11,527     | 7   |
| 6,957     | 1,797     | 1,039         | 2,075    | 5,418             | 14     | 2                      | 18,436     | 8   |
| 8,359     | 1,136     | 1,601         | 1,251    | 358               | -      | 1                      | 15,811     | 9   |
| 1,590     | 760       | 1,231         | 1,728    | 17,548            | -      | -                      | 24,087     | 10  |
| 7         | 131       | 7,956         | 786      | 6,033             | -      | -                      | 14,913     | 11  |
| 17,225    | 307       | 2,034         | 2,133    | 85                | -      | 1                      | 22,213     | 12  |
| 1,602     | 66        | 212           | 200      | 281               | -      | 1                      | 2,424      | 13  |
| 16,387    | 15,774    | 31,126        | 26,427   | 3,274             | 8      | 5                      | 102,389    | 14  |
| 3,185     | 94        | 539           | 252      | 79                | -      | -                      | 4,436      | 15  |
| 4,486     | 2,316     | 3,152         | 1,252    | 1,596             | -      | -                      | 13,552     | 16  |
| 62,094    | 19,193    | 5,047         | 3,663    | 2,666             | 2      | 2                      | 155,614    | 17  |
| 97,022    | 46,892    | 113,676       | 82,411   | 36,635            | 239    | 64                     | 394,194    | 18  |
| 17,661    | 30,352    | 31,338        | 8,289    | 1,085             | -      | -                      | 88,736     | 19  |
| 6,184     | 228       | 1,607         | 13,185   | 655               | 3      | 1                      | 22,005     | 20  |
| 3,418     | 2,629     | 2,504         | 2,188    | 7,855             | 45     | 311                    | 21,071     | 21  |
| 1,625     | 390       | 1,150         | 496      | 69                | 33     | 1,207                  | 5,008      | 22  |
| 8,152     | 3,441     | 4,970         | 3,655    | 2,277             | -      | -                      | 26,301     | 23  |
| 3,186     | 591       | 432           | 528      | 1,608             | 1      | -                      | 6,983      | 24  |
| 450,664   | 55,720    | 67,954        | 72,069   | 84,183            | 432    | 141                    | 870,728    | 25  |
| 3,286     | 1,479     | 1,734         | 1,931    | 2,653             | 38     | 361                    | 23,296     | 26  |
| 744,740   | 189,693   | 233,979       | 169,408  | 90,852            | 667    | 3,932                  | 4,285,388  | 27  |
| 16,701    | 2,266     | 2,015         | 2,024    | 2,801             | -      | 1                      | 30,716     | 28  |
| 1,244     | 1,178     | 328           | 294      | 491               | -      | 1                      | 4,445      | 29  |
| 1,369     | 23        | 65            | 124      | 44                | -      | -                      | 1,647      | 30  |
| 973,768   | 176,240   | 243,399       | 176,816  | 164,750           | 352    | 94                     | 2,017,375  | 31  |
| 24,829    | 2,973     | 6,451         | 6,700    | 6,670             | 2      | 37                     | 51,078     | 32  |
| 4,738     | 528       | 1,053         | 1,023    | 6,066             | 9      | 8                      | 16,042     | 33  |
| 3,431,683 | 709,139   | 921,785       | 731,605  | 694,263           | 4,230  | 9,723                  | 10,376,786 |     |

## 25.—Religions of the People

| No. | Racial Origin.                  | Total Population. | Adventist.    | Anglican.        | Baptist.       | Brethren and United Brethren. | Confucian and Buddhist. | Christian.    | Church of Christ Disciples. | Christian Science. | Evangelical Association. | Greek Orthodox. |
|-----|---------------------------------|-------------------|---------------|------------------|----------------|-------------------------------|-------------------------|---------------|-----------------------------|--------------------|--------------------------|-----------------|
| 1   | British Races.....              | 5,381,071         | 8,551         | 1,503,943        | 367,071        | 12,540                        | 49                      | 8,536         | 13,001                      | 16,307             | 6,198                    | 163             |
| 2   | English.....                    | 2,741,419         | 5,392         | 1,127,751        | 237,753        | 6,224                         | 32                      | 4,634         | 7,451                       | 9,661              | 3,804                    | 106             |
| 3   | Irish.....                      | 1,230,808         | 1,468         | 216,794          | 50,305         | 2,530                         | 3                       | 1,477         | 2,228                       | 2,666              | 1,114                    | 38              |
| 4   | Scottish.....                   | 1,346,350         | 1,566         | 137,713          | 72,240         | 3,664                         | 13                      | 2,320         | 3,164                       | 3,698              | 1,229                    | 25              |
| 5   | Other.....                      | 62,494            | 125           | 21,685           | 6,773          | 122                           | 1                       | 105           | 158                         | 282                | 51                       | —               |
| 6   | Continental European Races..... | 4,753,242         | 7,346         | 88,290           | 65,490         | 2,552                         | 21                      | 2,259         | 2,675                       | 2,056              | 15,957                   | 99,154          |
| 7   | French.....                     | 2,927,990         | 390           | 22,315           | 7,930          | 235                           | 2                       | 205           | 233                         | 278                | 327                      | 56              |
| 8   | Austrian, n.e.s.....            | 48,639            | 196           | 771              | 573            | 28                            | —                       | 4             | 3                           | 37                 | 48                       | 4,84            |
| 9   | Belgian.....                    | 27,585            | 6             | 796              | 149            | 3                             | —                       | 8             | 3                           | 3                  | 1                        | —               |
| 10  | Czech and Slovak.....           | 30,401            | 17            | 455              | 215            | 4                             | 2                       | 5             | 2                           | 9                  | 255                      | 82              |
| 11  | Danish.....                     | 34,118            | 148           | 3,148            | 919            | 45                            | 1                       | 55            | 81                          | 99                 | 20                       | 13              |
| 12  | Dutch.....                      | 148,962           | 483           | 16,275           | 13,029         | 554                           | —                       | 785           | 865                         | 332                | 364                      | 13              |
| 13  | Finnish.....                    | 43,885            | 17            | 661              | 175            | 10                            | 2                       | 5             | 4                           | 9                  | 22                       | 12              |
| 14  | German.....                     | 473,544           | 2,674         | 26,878           | 28,049         | 1,430                         | 9                       | 681           | 1,090                       | 866                | 13,441                   | 42              |
| 15  | Greek.....                      | 9,444             | 3             | 1,031            | 88             | 2                             | —                       | 2             | —                           | —                  | 4                        | 6,12            |
| 16  | Hebrew.....                     | 156,726           | 7             | 255              | 131            | 1                             | —                       | 4             | 6                           | 19                 | 4                        | 74              |
| 17  | Hungarian.....                  | 40,582            | 59            | 310              | 737            | —                             | 1                       | 21            | —                           | 8                  | 181                      | 34              |
| 18  | Icelandic.....                  | 19,382            | 35            | 619              | 87             | 4                             | —                       | 5             | 3                           | 29                 | 2                        | —               |
| 19  | Italian.....                    | 98,173            | 18            | 1,496            | 363            | 23                            | —                       | 44            | 15                          | 16                 | 117                      | 13              |
| 20  | Norwegian.....                  | 93,243            | 304           | 3,643            | 1,490          | 19                            | —                       | 107           | 167                         | 133                | 150                      | 1               |
| 21  | Polish.....                     | 145,503           | 194           | 1,285            | 1,812          | 16                            | —                       | 8             | 16                          | 24                 | 187                      | 5,57            |
| 22  | Roumanian.....                  | 29,056            | 230           | 600              | 438            | 3                             | 1                       | 52            | 2                           | 14                 | 86                       | 12,19           |
| 23  | Russian.....                    | 88,148            | 1,435         | 1,544            | 3,592          | 121                           | —                       | 131           | 33                          | 20                 | 333                      | 8,96            |
| 24  | Swedish.....                    | 81,306            | 322           | 4,448            | 4,061          | 51                            | —                       | 103           | 119                         | 142                | 34                       | 1               |
| 25  | Ukrainian.....                  | 225,113           | 769           | 755              | 1,262          | 2                             | 1                       | 23            | 24                          | 6                  | 344                      | 55,38           |
| 26  | Yugoslavic.....                 | 16,174            | 34            | 180              | 75             | —                             | 2                       | 10            | —                           | —                  | 26                       | 2,48            |
| 27  | Other.....                      | 15,268            | 5             | 825              | 315            | 1                             | —                       | 1             | 9                           | 12                 | 11                       | 1,66            |
| 28  | Asiatic Races.....              | 84,548            | 11            | 4,545            | 526            | 8                             | 39,801                  | 463           | 37                          | 15                 | 30                       | 3,04            |
| 29  | Chinese.....                    | 46,519            | 7             | 1,329            | 228            | 3                             | 24,693                  | 304           | 30                          | 12                 | 27                       | 1               |
| 30  | Japanese.....                   | 23,342            | 3             | 1,298            | 200            | 3                             | 15,090                  | 155           | —                           | 3                  | —                        | —               |
| 31  | Other.....                      | 14,687            | 1             | 1,918            | 98             | 2                             | 18                      | 4             | 7                           | —                  | 3                        | 3,02            |
| 32  | Indian and Eskimo.....          | 128,890           | 51            | 33,939           | 1,535          | 9                             | —                       | 247           | 4                           | 3                  | 6                        | —               |
| 33  | Negro.....                      | 19,456            | 50            | 3,411            | 8,024          | 1                             | —                       | 7             | 34                          | 28                 | —                        | —               |
| 34  | Various and Unspecified.....    | 9,579             | 17            | 1,487            | 695            | 9                             | —                       | 15            | 60                          | 27                 | 22                       | 2               |
|     | <b>Canada.....</b>              | <b>10,376,786</b> | <b>16,026</b> | <b>1,635,615</b> | <b>413,341</b> | <b>15,119</b>                 | <b>39,871</b>           | <b>11,527</b> | <b>15,811</b>               | <b>18,436</b>      | <b>22,213</b>            | <b>102,38</b>   |

In 1931, for the first time in the history of the Dominion Census, the religions of the people were cross-classified according to racial origin. The results, for Canada as a whole, are shown in Table 25.

It is seen from the information there given that in Canada the Anglican, the Baptist, the Presbyterian and the United Church of Canada derive the great proportion of their support from the British races. More than 61 p.c. of these of British race are members either of the United Church of Canada or are Anglicans.

The Roman Catholic Church not only derives very strong support from the French Canadians of Quebec province, where 91.42 p.c. of the population are members of that Church, but also from other continental European races. For instance, such important racial elements in the Canadian population as the Ukrainian, the Polish and even the German have nearly 70 p.c., over 85 p.c. and nearly 23 p.c. of their respective populations reported as Roman Catholic, while such lesser elements, as the Austrian, the Hungarian and the Yugoslavic have over 67 p.c., over 72 p.c. and 76 p.c., respectively, members of the same religion. The Russian element, which ranks between these two groups in numbers, has over 28 p.c. of its people Roman Catholic.

Among the Protestant denominations of the continental European races, the Lutheran ranks very high among the German, the Norwegian, the Swedish and the Finnish elements.

## Classified by Racial Origin, 1931.

| Int. Bible<br>Stud-<br>ents. | Jewish. | Luth-<br>eran. | Men-<br>non-<br>ite. | Mor-<br>mon. | No<br>Re-<br>ligion. | Pen-<br>to-<br>costal. | Pres-<br>by-<br>terian. | Prot-<br>estant. | Roman<br>Catholic. | Salva-<br>tion<br>Army. | United<br>Church. | Other  | Not<br>Stated | No. |
|------------------------------|---------|----------------|----------------------|--------------|----------------------|------------------------|-------------------------|------------------|--------------------|-------------------------|-------------------|--------|---------------|-----|
| 9,250                        | 57      | 14,448         | 2,863                | 17,030       | 10,184               | 18,179                 | 802,619                 | 16,833           | 691,459            | 27,468                  | 1,781,532         | 47,917 | 4,872         | 1   |
| 5,285                        | 41      | 8,531          | 1,763                | 11,122       | 5,500                | 9,637                  | 195,349                 | 10,764           | 177,634            | 19,823                  | 863,087           | 27,322 | 2,759         | 2   |
| 1,763                        | 7       | 3,081          | 618                  | 2,509        | 2,013                | 4,410                  | 141,327                 | 2,191            | 384,748            | 3,086                   | 395,366           | 10,252 | 817           | 3   |
| 2,072                        | 7       | 2,636          | 449                  | 2,957        | 2,483                | 3,920                  | 460,115                 | 3,713            | 126,486            | 4,276                   | 500,778           | 9,599  | 1,223         | 4   |
| 130                          | 2       | 200            | 33                   | 442          | 188                  | 212                    | 5,828                   | 165              | 2,591              | 283                     | 22,301            | 744    | 73            | 5   |
| 4,236                        | 155,557 | 379,527        | 85,828               | 4,879        | 6,710                | 7,764                  | 63,115                  | 5,402            | 3,515,337          | 2,596                   | 201,554           | 32,563 | 2,374         | 6   |
| 224                          | 4       | 1,977          | 243                  | 407          | 821                  | 513                    | 10,074                  | 981              | 2,849,096          | 512                     | 28,701            | 1,193  | 1,279         | 7   |
| 91                           | 6       | 5,924          | 452                  | 15           | 121                  | 73                     | 775                     | 66               | 32,783             | 19                      | 1,550             | 218    | 45            | 8   |
| 13                           | 1       | 119            | 7                    | 9            | 75                   | 26                     | 516                     | 40               | 24,673             | 13                      | 1,066             | 43     | 13            | 9   |
| 12                           | 1       | 1,696          | 8                    | 6            | 265                  | 48                     | 591                     | 292              | 24,266             | 10                      | 1,260             | 116    | 38            | 10  |
| 52                           | -       | 18,910         | 156                  | 1,159        | 211                  | 145                    | 1,734                   | 172              | 1,197              | 94                      | 5,535             | 177    | 48            | 11  |
| 409                          | 2       | 3,692          | 37,555               | 516          | 539                  | 676                    | 11,032                  | 341              | 8,892              | 575                     | 47,799            | 4,128  | 104           | 12  |
| 18                           | 1       | 38,742         | 1                    | 11           | 496                  | 33                     | 927                     | 168              | 561                | 19                      | 1,711             | 101    | 71            | 13  |
| 1,012                        | 24      | 147,290        | 34,687               | 1,582        | 1,008                | 2,855                  | 20,789                  | 1,074            | 107,940            | 703                     | 73,086            | 5,665  | 284           | 14  |
| 17                           | -       | 42             | -                    | -            | 15                   | 1                      | 143                     | 20               | 1,623              | 6                       | 289               | 11     | 20            | 15  |
| 1                            | 155,351 | 66             | 11                   | -            | 112                  | 1                      | 127                     | 53               | 292                | 1                       | 176               | 28     | 7             | 16  |
| 61                           | -       | 2,171          | 2                    | 6            | 40                   | 210                    | 4,187                   | 449              | 29,425             | 21                      | 1,702             | 634    | 15            | 17  |
| 51                           | 1       | 14,972         | 7                    | 85           | 80                   | 47                     | 350                     | 30               | 172                | 26                      | 1,624             | 1,134  | 44            | 18  |
| 16                           | 4       | 119            | 18                   | 32           | 99                   | 690                    | 955                     | 164              | 91,742             | 56                      | 2,026             | 113    | 29            | 19  |
| 284                          | -       | 68,665         | 44                   | 281          | 267                  | 981                    | 2,664                   | 203              | 2,094              | 161                     | 11,089            | 404    | 75            | 20  |
| 534                          | 59      | 6,815          | 134                  | 7            | 317                  | 159                    | 1,026                   | 181              | 124,252            | 37                      | 2,030             | 748    | 92            | 21  |
| 37                           | 11      | 1,957          | 4                    | 18           | 51                   | 101                    | 400                     | 109              | 11,437             | 8                       | 1,034             | 258    | 13            | 22  |
| 124                          | 89      | 12,719         | 12,084               | 41           | 490                  | 255                    | 1,209                   | 246              | 24,874             | 128                     | 3,799             | 15,838 | 78            | 23  |
| 245                          | 1       | 50,678         | 14                   | 671          | 394                  | 765                    | 3,205                   | 336              | 1,911              | 144                     | 12,295            | 1,290  | 65            | 24  |
| 1,003                        | -       | 1,180          | 385                  | 20           | 1,215                | 105                    | 1,823                   | 369              | 156,315            | 44                      | 3,667             | 359    | 56            | 25  |
| 5                            | -       | 393            | 7                    | 1            | 39                   | 61                     | 185                     | 53               | 12,298             | 2                       | 246               | 60     | 13            | 26  |
| 27                           | 2       | 1,400          | 9                    | 12           | 55                   | 19                     | 403                     | 55               | 9,494              | 17                      | 869               | 45     | 15            | 27  |
| 20                           | -       | 56             | 15                   | 9            | 3,452                | 13                     | 2,747                   | 84               | 7,586              | 72                      | 10,502            | 3,281  | 8,229         | 28  |
| 15                           | -       | 17             | -                    | -            | 3,238                | 7                      | 2,289                   | 56               | 803                | 34                      | 4,638             | 648    | 8,123         | 29  |
| 5                            | -       | 3              | -                    | -            | 186                  | 2                      | 134                     | 10               | 292                | 27                      | 5,268             | 591    | 71            | 30  |
| -                            | -       | 36             | 15                   | 9            | 28                   | 4                      | 324                     | 18               | 6,491              | 11                      | 596               | 2,042  | 35            | 31  |
| 5                            | -       | 57             | 2                    | 13           | 611                  | 112                    | 1,022                   | 529              | 67,201             | 421                     | 16,955            | 6,008  | 160           | 32  |
| 27                           | -       | 27             | 5                    | 44           | 40                   | 165                    | 364                     | 159              | 1,272              | 96                      | 4,174             | 1,512  | 16            | 33  |
| 14                           | -       | 79             | 23                   | 30           | 74                   | 68                     | 861                     | 289              | 2,533              | 63                      | 2,658             | 139    | 391           | 34  |
| 13,552                       | 155,614 | 394,194        | 88,736               | 22,005       | 21,071               | 26,301                 | 870,728                 | 23,296           | 4,285,388          | 30,716                  | 2,017,375         | 91,420 | 16,042        |     |

## Section 7.—Birthplaces.

The birthplaces of the population of Canada, as at each of the seven censuses, are shown by Canadian born, British born, and foreign born. (United States born and other foreign born) in Table 26. The table shows that, in 1871, 97.28 p.c. of the population was born under the British flag, while, sixty years later, the percentage had declined to 89.18. The proportion of Canadian born increased steadily until the opening of the century, but has declined as a result of the increase of immigration after 1900. The Census of 1931 shows declines in the proportions of British born and United States born as compared with 1921 but a substantial increase in the percentage of "other foreign born". The proportion of Canadian born has remained practically unchanged.

Worthy of note is the fairly steady increase of the United States-born population from 1.85 p.c. in 1871 to 4.25 p.c. in 1921, and the subsequent decline to 3.32 p.c. in 1931. Other foreign born increased from 0.87 p.c. in 1871 to 6.23 p.c. in 1911, declined to 5.87 p.c. of the total population by 1921 but, as already noted, increased substantially to 7.50 p.c. by 1931.

**26.—Birthplaces of the Population of Canada, According to the Censuses of 1871-1931.**

| Year.    | Canadian<br>Born. | British<br>Born. <sup>1</sup> | Foreign Born.                   |                                           | Total<br>Popula-<br>tion. | Percentages of Total Population. |                    |                           |                           |
|----------|-------------------|-------------------------------|---------------------------------|-------------------------------------------|---------------------------|----------------------------------|--------------------|---------------------------|---------------------------|
|          |                   |                               | Born<br>in<br>United<br>States. | Born<br>in other<br>Foreign<br>Countries. |                           | Canadian<br>Born.                | British<br>Born.   | Foreign Born.             |                           |
|          |                   |                               |                                 |                                           |                           |                                  |                    | United<br>States<br>Born. | Other<br>Foreign<br>Born. |
|          | No.               | No.                           | No.                             | No.                                       | No.                       | p.c.                             | p.c.               | p.c.                      | p.c.                      |
| 1871.... | 2,894,591         | 496,502 <sup>2</sup>          | 64,447                          | 30,221                                    | 3,485,761                 | 83.04 <sup>2</sup>               | 14.24 <sup>2</sup> | 1.85                      | 0.87                      |
| 1881.... | 3,721,826         | 478,615                       | 77,753                          | 46,616                                    | 4,324,810                 | 86.06                            | 11.07              | 1.80                      | 1.08                      |
| 1891.... | 4,189,368         | 490,573                       | 80,915                          | 72,383                                    | 4,833,239                 | 86.68                            | 10.15              | 1.67                      | 1.50                      |
| 1901.... | 4,671,815         | 421,051                       | 127,899                         | 150,550                                   | 5,371,315                 | 86.98                            | 7.84               | 2.38                      | 2.80                      |
| 1911.... | 5,619,682         | 834,229                       | 303,680                         | 449,052                                   | 7,206,643                 | 77.98                            | 11.58              | 4.21                      | 6.23                      |
| 1921.... | 6,832,224         | 1,065,448                     | 374,022                         | 516,255                                   | 8,787,949                 | 77.75                            | 12.12              | 4.25                      | 5.87                      |
| 1931.... | 8,069,261         | 1,184,830                     | 344,574                         | 778,121                                   | 10,376,786                | 77.76                            | 11.42              | 3.32                      | 7.50                      |

<sup>1</sup>Includes some hundreds of persons born at sea. <sup>2</sup>Revised since the publication of the 1933 Year Book.

The birthplaces of the 1931 population are indicated by sex in Table 27, for the various provinces and territories. In the Maritime Provinces, the population is shown by the census to be about 93 p.c. native born, and in Quebec about 91 p.c. In Ontario, however, the proportion sinks to about 77 p.c., in Manitoba to about 66 p.c., in Saskatchewan to about 65 p.c., in Alberta to about 58 p.c., and in British Columbia to about 54 p.c. The general tendency over the past decade has been for the proportion of the native-born population to remain stationary or show a slight decrease in Eastern Canada, but in Western Canada increases are everywhere shown; thus, the percentages in 1921 were: Maritime Provinces 93, Quebec 92, Ontario 78, Manitoba 64, Saskatchewan 60, Alberta 54 and British Columbia about 50. The proportion of foreign born has naturally decreased in the western provinces as a result of the limited immigration of recent years.

About 44 p.c. of the total British-born population is in Ontario, but the greatest proportion of British-born population in any one province is in British Columbia, viz., 27 p.c., which compares with 31 p.c. for 1921. The foreign-born element reaches its maximum percentage in the rapidly growing provinces of Saskatchewan and Alberta, where it constitutes about 24 p.c. and 27 p.c. of the respective populations as compared with 26 p.c. and 30 p.c. respectively for 1921.

**27.—Population Classified by Sex and Nativity, by Provinces and Territories, 1931, with Totals for 1911 and 1921.**

| Province or Territory.    | Totals.          |                  |                   | Canadian Born.   |                  | British Born.  |                | Foreign Born.  |                |
|---------------------------|------------------|------------------|-------------------|------------------|------------------|----------------|----------------|----------------|----------------|
|                           | Male.            | Female.          | Both Sexes.       | Male.            | Female.          | Male.          | Female.        | Male.          | Female.        |
| P.E. Island....           | 45,392           | 42,646           | 88,038            | 43,907           | 41,344           | 615            | 545            | 870            | 757            |
| Nova Scotia....           | 289,104          | 249,742          | 512,846           | 240,695          | 230,354          | 14,003         | 13,065         | 8,406          | 6,323          |
| New Brunswick             | 208,620          | 199,599          | 408,219           | 195,908          | 187,910          | 6,732          | 5,980          | 5,980          | 5,709          |
| Quebec.....               | 1,447,124        | 1,427,131        | 2,874,255         | 1,311,893        | 1,310,619        | 56,248         | 54,578         | 78,983         | 61,934         |
| Ontario.....              | 1,748,844        | 1,632,839        | 3,431,683         | 1,311,792        | 1,315,606        | 273,129        | 253,441        | 163,923        | 113,792        |
| Manitoba.....             | 368,065          | 332,074          | 700,139           | 235,960          | 227,590          | 58,434         | 47,717         | 73,671         | 56,767         |
| Saskatchewan.             | 499,935          | 421,850          | 921,785           | 314,266          | 288,974          | 58,118         | 42,883         | 127,551        | 89,993         |
| Alberta.....              | 400,199          | 331,406          | 731,605           | 221,207          | 204,660          | 61,207         | 47,558         | 117,785        | 79,188         |
| British Columbia.....     | 385,219          | 309,044          | 694,263           | 194,047          | 180,687          | 102,209        | 87,515         | 88,963         | 40,842         |
| Yukon.....                | 2,825            | 1,405            | 4,230             | 1,567            | 1,091            | 509            | 108            | 749            | 206            |
| Northwest Territories.... | 5,214            | 4,509            | 9,723             | 4,759            | 4,425            | 207            | 29             | 248            | 55             |
| <b>Canada, 1931..</b>     | <b>5,374,541</b> | <b>5,002,245</b> | <b>10,376,786</b> | <b>4,076,001</b> | <b>3,993,260</b> | <b>631,411</b> | <b>553,419</b> | <b>667,129</b> | <b>455,566</b> |
| " 1921..                  | 4,529,643        | 4,258,306        | 8,787,949         | 3,443,109        | 3,389,115        | 567,068        | 498,380        | 519,466        | 370,811        |
| " 1911..                  | 3,821,995        | 3,384,648        | 7,206,643         | 2,849,442        | 2,770,240        | 501,626        | 332,603        | 470,927        | 281,805        |



The birthplaces together with the percentage increases in the decades 1901-31 and the percentage distribution in the census years 1911-31 are shown in Table 28. All the nine provinces show percentage increases with the exception of Prince Edward Island, where the native born have decreased since 1891. Of the foreign countries, Yugoslavia shows the largest percentage increase during the last decade, with 77.9 p.c., while the United States, which has always shown an increase in former censuses, decreased 7.87 p.c. between 1921 and 1931.

**28.—Birthplaces and Percentage Distributions of the Populations of Canada, Censuses 1911-31, together with Percentage Increase in each Decade, 1901-31.**

NOTE.—The sign (—) denotes a decrease.

| Birthplace.                  | Census Years.    |                  |                  | Percentage Increases by Decades. |              |              | P.Cs. of Total Populations Born in Specified Country. |              |              |
|------------------------------|------------------|------------------|------------------|----------------------------------|--------------|--------------|-------------------------------------------------------|--------------|--------------|
|                              | 1911.            | 1921.            | 1931.            | 1901-1911.                       | 1911-1921.   | 1921-1931.   | 1911.                                                 | 1921.        | 1931.        |
|                              | No.              | No.              | No.              | p.c.                             | p.c.         | p.c.         | p.c.                                                  | p.c.         | p.c.         |
| <b>British Born.</b>         |                  |                  |                  |                                  |              |              |                                                       |              |              |
| <b>Canada—</b>               |                  |                  |                  |                                  |              |              |                                                       |              |              |
| Prince Edward Island         | 103,410          | 101,513          | 99,738           | -2.10                            | -1.83        | -1.75        | 1.43                                                  | 1.16         | 0.96         |
| Nova Scotia                  | 476,210          | 506,823          | 507,235          | 7.52                             | 6.43         | 0.08         | 6.61                                                  | 5.77         | 4.89         |
| New Brunswick                | 345,253          | 378,902          | 403,049          | 8.89                             | 9.75         | 6.37         | 4.79                                                  | 4.31         | 3.88         |
| Quebec                       | 1,939,886        | 2,265,540        | 2,696,122        | 19.71                            | 16.79        | 19.01        | 26.92                                                 | 25.78        | 25.98        |
| Ontario                      | 2,232,325        | 2,505,562        | 2,794,631        | 15.78                            | 12.24        | 11.54        | 30.98                                                 | 28.51        | 26.93        |
| Manitoba                     | 214,566          | 351,444          | 463,542          | 93.75                            | 63.79        | 31.90        | 2.98                                                  | 4.00         | 4.47         |
| Saskatchewan                 | 108,149          | 314,830          | 502,165          | —                                | 191.11       | 59.50        | 1.50                                                  | 3.58         | 4.84         |
| Alberta                      | 78,205           | 211,643          | 336,674          | —                                | 170.63       | 59.08        | 1.08                                                  | 2.41         | 3.24         |
| British Columbia             | 87,935           | 167,169          | 247,741          | 44.69                            | 90.11        | 48.20        | 1.22                                                  | 1.90         | 2.39         |
| Yukon                        | 1,824            | 1,751            | 2,180            | —                                | -4.00        | 24.50        | 0.02                                                  | 0.02         | 0.02         |
| Northwest Territories        | 7,684            | 6,919            | 8,272            | —                                | -9.96        | 19.55        | 0.11                                                  | 0.08         | 0.08         |
| Not stated                   | 24,235           | 20,128           | 7,912            | 81.21                            | 16.95        | -60.69       | 0.34                                                  | 0.23         | 0.08         |
| <b>Totals, Canada</b>        | <b>5,619,682</b> | <b>6,832,224</b> | <b>8,069,261</b> | <b>20.29</b>                     | <b>21.58</b> | <b>18.11</b> | <b>77.98</b>                                          | <b>77.75</b> | <b>77.76</b> |
| <b>British Isles—</b>        |                  |                  |                  |                                  |              |              |                                                       |              |              |
| England                      | 510,674          | 686,663          | 723,864          | 153.71                           | 34.46        | 5.42         | 7.09                                                  | 7.81         | 6.98         |
| Ireland                      | 92,874           | 93,301           | 107,544          | -8.61                            | 0.46         | 15.27        | 1.29                                                  | 1.06         | 1.04         |
| Scotland                     | 169,391          | 226,481          | 279,765          | 102.55                           | 33.70        | 23.53        | 2.35                                                  | 2.58         | 2.70         |
| Wales                        | 8,727            | 13,779           | 22,348           | 246.58                           | 57.89        | 62.19        | 0.12                                                  | 0.16         | 0.22         |
| Lesser Isles                 | 2,860            | 4,807            | 5,421            | 199.16                           | 68.08        | 12.77        | 0.04                                                  | 0.05         | 0.05         |
| Not stated                   | 19,708           | 88               | —                | 32.90                            | -99.55       | -100.00      | 0.27                                                  | —            | —            |
| <b>Totals, British Isles</b> | <b>804,234</b>   | <b>1,025,119</b> | <b>1,138,942</b> | <b>98.65</b>                     | <b>27.47</b> | <b>11.16</b> | <b>11.16</b>                                          | <b>11.66</b> | <b>10.98</b> |
| <b>Other British—</b>        |                  |                  |                  |                                  |              |              |                                                       |              |              |
| Australia                    | 2,655            | 2,855            | 3,565            | 167.91                           | 7.53         | 24.87        | 0.04                                                  | 0.03         | 0.03         |
| India                        | 4,491            | 3,848            | 4,672            | 317.38                           | -14.32       | 21.41        | 0.06                                                  | 0.05         | 0.05         |
| Newfoundland                 | 15,469           | 23,103           | 26,410           | 24.43                            | 49.35        | 14.31        | 0.21                                                  | 0.26         | 0.25         |
| New Zealand                  | .908             | 1,085            | 1,434            | 141.44                           | 20.16        | 32.17        | 0.01                                                  | 0.01         | 0.01         |
| South Africa                 | 1,166            | 1,760            | 2,235            | 810.94                           | 50.94        | 26.99        | 0.02                                                  | 0.02         | 0.02         |
| West Indies                  | 1,878            | 4,270            | 4,537            | —                                | 127.37       | 6.25         | 0.03                                                  | 0.05         | 0.04         |
| Other British                | 2,626            | 2,755            | 2,304            | 204.29                           | 4.91         | -16.37       | 0.04                                                  | 0.03         | 0.02         |
| <b>Totals, Other British</b> | <b>29,188</b>    | <b>39,676</b>    | <b>45,157</b>    | <b>83.99</b>                     | <b>35.93</b> | <b>13.81</b> | <b>0.41</b>                                           | <b>0.45</b>  | <b>0.44</b>  |
| <b>Totals, British Born</b>  | <b>6,453,911</b> | <b>7,897,672</b> | <b>9,254,091</b> | <b>26.72</b>                     | <b>22.37</b> | <b>17.17</b> | <b>89.56</b>                                          | <b>89.87</b> | <b>89.18</b> |
| <b>Foreign Born.</b>         |                  |                  |                  |                                  |              |              |                                                       |              |              |
| <b>Europe—</b>               |                  |                  |                  |                                  |              |              |                                                       |              |              |
| Austria                      | 67,502           | 57,535           | 37,391           | —                                | -14.77       | -35.01       | 0.04                                                  | 0.65         | 0.36         |
| Belgium                      | 7,975            | 13,276           | 17,033           | 249.78                           | 66.47        | 28.30        | 0.11                                                  | 0.15         | 0.16         |
| Bulgaria                     | 1,666            | 1,005            | 1,467            | —                                | -39.68       | 45.97        | 0.02                                                  | 0.01         | 0.01         |
| Czechoslovakia               | 1,689            | 4,322            | 22,835           | —                                | 155.89       | 428.34       | 0.02                                                  | 0.05         | 0.22         |
| Denmark                      | 4,937            | 7,192            | 17,217           | 137.93                           | 45.68        | 139.39       | 0.07                                                  | 0.08         | 0.17         |
| Finland                      | 10,987           | 12,156           | 30,354           | —                                | 10.64        | 149.70       | 0.15                                                  | 0.14         | 0.29         |
| France                       | 17,619           | 19,247           | 16,756           | 121.79                           | 9.24         | -12.94       | 0.24                                                  | 0.22         | 0.16         |

28.—Birthplaces and Percentage Distributions of the Populations of Canada, Census 1911-31, together with Percentage Increase in each Decade, 1901-31.—concluded.

| Birthplace.                      | Census Years.    |                  |                   | Percentage Increases by Decades. |              |              | P.Cs. of Total Populations Born in Specified Country. |               |               |
|----------------------------------|------------------|------------------|-------------------|----------------------------------|--------------|--------------|-------------------------------------------------------|---------------|---------------|
|                                  | 1911.            | 1921.            | 1931.             | 1901-1911.                       | 1911-1921.   | 1921-1931.   | 1911.                                                 | 1921.         | 1931.         |
|                                  | No.              | No.              | No.               | p.c.                             | p.c.         | p.c.         | p.c.                                                  | p.c.          | p.c.          |
| <b>Foreign Born—con.</b>         |                  |                  |                   |                                  |              |              |                                                       |               |               |
| <b>Europe—con.</b>               |                  |                  |                   |                                  |              |              |                                                       |               |               |
| Germany.....                     | 39,577           | 25,266           | 39,163            | 44.97                            | -36.16       | 55.00        | 0.55                                                  | 0.29          | 0.38          |
| Greece.....                      | 2,640            | 3,769            | 5,579             | 1,139.44                         | 42.77        | 48.02        | 0.04                                                  | 0.04          | 0.05          |
| Holland.....                     | 3,808            | 5,827            | 10,736            | 889.09                           | 53.02        | 84.25        | 0.05                                                  | 0.07          | 0.10          |
| Hungary.....                     | 10,586           | 7,493            | 28,523            | —                                | -29.22       | 280.66       | 0.15                                                  | 0.09          | 0.27          |
| Iceland.....                     | 7,109            | 6,776            | 5,731             | 17.37                            | -4.68        | -15.42       | 0.10                                                  | 0.08          | 0.06          |
| Italy.....                       | 34,739           | 35,531           | 42,578            | 406.84                           | 2.28         | 19.83        | 0.48                                                  | 0.40          | 0.41          |
| Lithuania.....                   | 1                | 1                | 5,704             | —                                | —            | —            | —                                                     | —             | 0.05          |
| Norway.....                      | 20,968           | 23,127           | 32,679            | —                                | 10.30        | 41.30        | 0.29                                                  | 0.26          | 0.31          |
| Poland.....                      | 31,373           | 65,304           | 171,169           | —                                | 108.15       | 162.11       | 0.44                                                  | 0.74          | 1.65          |
| Roumania.....                    | 18,271           | 22,779           | 40,322            | —                                | 24.67        | 77.01        | 0.25                                                  | 0.26          | 0.39          |
| Russia.....                      | 89,984           | 101,055          | 114,406           | —                                | —            | 13.21        | 1.25                                                  | 1.15          | 1.10          |
| Sweden.....                      | 28,226           | 27,700           | 34,415            | —                                | -1.86        | 24.24        | 0.39                                                  | 0.32          | 0.33          |
| Switzerland.....                 | —                | 3,479            | 6,076             | —                                | —            | 74.65        | —                                                     | 0.04          | 0.06          |
| Ukraine.....                     | —                | 11,357           | 13,759            | —                                | —            | 21.15        | —                                                     | 0.13          | 0.13          |
| Yugoslavia.....                  | —                | 1,946            | 17,110            | —                                | —            | 779.24       | —                                                     | 0.02          | 0.16          |
| Other.....                       | 5,285            | 3,183            | 3,459             | 256.85                           | 39.77        | 8.67         | 0.07                                                  | 0.04          | 0.03          |
| <b>Totals, Europe.....</b>       | <b>404,941</b>   | <b>459,325</b>   | <b>714,462</b>    | <b>222.54</b>                    | <b>13.43</b> | <b>55.55</b> | <b>5.62</b>                                           | <b>5.23</b>   | <b>6.89</b>   |
| <b>Asia—</b>                     |                  |                  |                   |                                  |              |              |                                                       |               |               |
| China.....                       | 27,083           | 36,924           | 42,037            | 58.91                            | 36.34        | 13.85        | 0.37                                                  | 0.42          | 0.40          |
| Japan.....                       | 8,425            | 11,650           | 12,261            | 80.25                            | 38.28        | 5.24         | 0.12                                                  | 0.13          | 0.12          |
| Syria.....                       | 2,907            | 3,879            | 3,953             | 137.89                           | 33.44        | 1.91         | 0.04                                                  | 0.04          | 0.04          |
| Turkey.....                      | 1,861            | 401              | 921               | 421.29                           | -73.45       | 129.68       | 0.03                                                  | 0.01          | 0.01          |
| Other.....                       | 670              | 782              | 1,436             | 135.92                           | 16.72        | 8.36         | 0.01                                                  | 0.01          | 0.01          |
| <b>Totals, Asia.....</b>         | <b>40,946</b>    | <b>53,636</b>    | <b>60,608</b>     | <b>73.65</b>                     | <b>30.99</b> | <b>13.00</b> | <b>0.57</b>                                           | <b>0.61</b>   | <b>0.58</b>   |
| United States.....               | 303,680          | 374,022          | 344,574           | 137.44                           | 23.16        | -7.87        | 4.21                                                  | 4.25          | 3.32          |
| Other countries.....             | 3,165            | 3,294            | 3,051             | 122.73                           | 4.08         | -7.38        | 0.04                                                  | 0.04          | 0.03          |
| At sea.....                      | 807              | 653              | 731               | 138.05                           | -19.08       | 11.94        | 0.01                                                  | 0.01          | 0.01          |
| <b>Totals, Foreign Born.....</b> | <b>752,732</b>   | <b>890,277</b>   | <b>1,122,695</b>  | <b>170.33</b>                    | <b>18.27</b> | <b>26.11</b> | <b>10.44</b>                                          | <b>10.13</b>  | <b>10.82</b>  |
| <b>Grand Totals.....</b>         | <b>7,206,643</b> | <b>8,787,949</b> | <b>10,376,786</b> | <b>34.17</b>                     | <b>21.94</b> | <b>18.08</b> | <b>100.00</b>                                         | <b>100.00</b> | <b>100.00</b> |

<sup>1</sup>Included with Russia.

In Table 29 the native-born population is classified by province of residence according to the province of birth. The province showing the smallest emigration to other provinces is Quebec, with 94.28 p.c. of its native born still resident within the province, and therefore only 5.72 p.c. of those born within its borders living in other parts of Canada. Of this 5.72 p.c., 3.43 p.c. reside in the neighbouring province of Ontario (largely in counties along the Ottawa river and in northern Ontario). The next province as regards largest percentage of its native born still resident within the province is British Columbia with 94.13. There has commonly been a strong tendency for the native born of the eastern provinces to migrate to the West, although in more recent times Ontario has drawn a fairly large number from the West.

**Nativity of Parents.**—Of the 10,376,786 persons residing in Canada in 1931 there were 54.12 p.c. with both parents Canadian born; 18.88 p.c. with both parents British born; 15.99 p.c. with both parents foreign born; 6.12 p.c. with one parent Canadian born and one parent British born; 3.76 p.c. with one parent Canadian born and one foreign born and 0.97 p.c. with one parent British born and one parent foreign born. It is worthy of notice that 69,468 persons born outside of Canada but living in Canada had both parents Canadian born. This is probably due to persons born in the United States of Canadian-born parents. Table 30 gives the nativity of parents by provinces.

## 29.—Numbers and Percentages of the Canadian-Born Population Classified by Province of Residence, by Province of Birth, 1931.

| Province of Birth.                | Numbers of Native Population Born in Specified Province or Territory, living in — |                  |                 |                   |           |           |           |                    |          |                      |                                        |
|-----------------------------------|-----------------------------------------------------------------------------------|------------------|-----------------|-------------------|-----------|-----------|-----------|--------------------|----------|----------------------|----------------------------------------|
|                                   | Canada.                                                                           | P. E.<br>Island. | Nova<br>Scotia. | New<br>Brunswick. | Quebec.   | Ontario.  | Manitoba. | Sask-<br>atchewan. | Alberta. | British<br>Columbia. | Yukon and<br>Northwest<br>Territories. |
|                                   | No.                                                                               | No.              | No.             | No.               | No.       | No.       | No.       | No.                | No.      | No.                  | No.                                    |
| Prince Edward Island .....        | 99,738                                                                            | 82,724           | 3,175           | 2,751             | 964       | 1,651     | 904       | 2,283              | 2,353    | 2,819                | 24                                     |
| Nova Scotia .....                 | 507,235                                                                           | 1,279            | 454,944         | 8,408             | 6,418     | 11,739    | 2,905     | 4,770              | 7,033    | 9,632                | 107                                    |
| New Brunswick .....               | 403,049                                                                           | 651              | 7,901           | 300,149           | 11,409    | 7,939     | 1,733     | 2,746              | 3,846    | 6,521                | 64                                     |
| Quebec .....                      | 2,696,122                                                                         | 191              | 1,951           | 10,194            | 2,541,915 | 92,406    | 9,693     | 15,247             | 14,247   | 9,226                | 1,052                                  |
| Ontario .....                     | 2,794,631                                                                         | 173              | 1,763           | 1,544             | 55,085    | 2,478,868 | 56,613    | 86,538             | 59,194   | 54,486               | 337                                    |
| Manitoba .....                    | 463,542                                                                           | 40               | 222             | 192               | 2,362     | 14,087    | 373,828   | 38,702             | 14,406   | 18,965               | 78                                     |
| Saskatchewan .....                | 502,165                                                                           | 89               | 268             | 183               | 1,248     | 9,161     | 13,447    | 442,256            | 16,991   | 18,481               | 38                                     |
| Alberta .....                     | 336,674                                                                           | 66               | 273             | 163               | 982       | 4,741     | 2,463     | 7,403              | 300,200  | 20,231               | 147                                    |
| British Columbia .....            | 247,741                                                                           | 36               | 279             | 129               | 770       | 2,961     | 1,276     | 2,144              | 6,768    | 233,195              | 183                                    |
| Yukon and N. W. Territories ..... | 10,452                                                                            | —                | 3               | 4                 | 32        | 67        | 107       | 62                 | 129      | 290                  | 9,758                                  |
| Not stated .....                  | 7,912                                                                             | 2                | 270             | 96                | 1,237     | 3,148     | 491       | 1,029              | 700      | 885                  | 54                                     |
| Totals .....                      | 8,069,261                                                                         | 85,251           | 471,049         | 383,815           | 2,622,512 | 2,627,398 | 463,550   | 603,240            | 425,867  | 374,734              | 11,842                                 |

| Province of Birth.              | Percentages of Native Population Born in Specified Province or Territory, living in — |                 |                 |                   |         |          |           |                    |          |                      |                                        |
|---------------------------------|---------------------------------------------------------------------------------------|-----------------|-----------------|-------------------|---------|----------|-----------|--------------------|----------|----------------------|----------------------------------------|
|                                 | Canada.                                                                               | P.E.<br>Island. | Nova<br>Scotia. | New<br>Brunswick. | Quebec. | Ontario. | Manitoba. | Sask-<br>atchewan. | Alberta. | British<br>Columbia. | Yukon and<br>Northwest<br>Territories. |
|                                 | p.c.                                                                                  | p.c.            | p.c.            | p.c.              | p.c.    | p.c.     | p.c.      | p.c.               | p.c.     | p.c.                 | p.c.                                   |
| Prince Edward Island.....       | 100.00                                                                                | 82.94           | 3.18            | 2.76              | 0.97    | 1.66     | 1.00      | 2.29               | 2.36     | 2.83                 | 0.02                                   |
| Nova Scotia.....                | 100.00                                                                                | 0.25            | 89.69           | 1.66              | 1.27    | 2.31     | 0.57      | 0.94               | 1.39     | 1.90                 | 0.02                                   |
| New Brunswick.....              | 100.00                                                                                | 0.16            | 1.96            | 89.36             | 2.85    | 1.97     | 0.43      | 0.68               | 0.95     | 1.62                 | 0.02                                   |
| Quebec.....                     | 100.00                                                                                | 0.01            | 0.07            | 0.38              | 94.28   | 3.43     | 0.36      | 0.57               | 0.53     | 0.34                 | 0.04                                   |
| Ontario.....                    | 100.00                                                                                | 0.01            | 0.06            | 0.05              | 1.97    | 88.70    | 2.03      | 3.10               | 2.12     | 1.95                 | 0.01                                   |
| Manitoba.....                   | 100.00                                                                                | 0.01            | 0.05            | 0.04              | 0.51    | 3.17     | 80.65     | 8.36               | 3.11     | 4.09                 | 0.02                                   |
| Saskatchewan.....               | 100.00                                                                                | 0.02            | 0.05            | 0.04              | 0.25    | 1.82     | 2.68      | 88.07              | 3.38     | 3.68                 | 0.01                                   |
| Alberta.....                    | 100.00                                                                                | 0.02            | 0.08            | 0.05              | 0.29    | 1.41     | 0.73      | 2.20               | 89.17    | 6.01                 | 0.04                                   |
| British Columbia.....           | 100.00                                                                                | 0.01            | 0.11            | 0.05              | 0.31    | 1.20     | 0.52      | 0.87               | 2.73     | 94.13                | 0.07                                   |
| Yukon and N.W. Territories..... | 100.00                                                                                | —               | 0.03            | 0.04              | 0.31    | 0.64     | 1.02      | 0.59               | 2.77     | 93.36                | 0.68                                   |
| Not stated.....                 | 100.00                                                                                | 0.03            | 3.41            | 1.21              | 15.63   | 39.79    | 6.21      | 13.01              | 8.85     | 11.19                | 0.15                                   |
| Totals.....                     | 100.00                                                                                | 1.06            | 5.84            | 4.76              | 32.50   | 32.56    | 5.74      | 7.48               | 5.28     | 4.64                 | 0.15                                   |

20.—Population Classified by Nativity of Parents, by Provinces, 1931.

| Population in Canada — of Mixed Parentage. |             |                      |               |               |                                  |                                  |                                  |                                 |                                  |                                 |                        |
|--------------------------------------------|-------------|----------------------|---------------|---------------|----------------------------------|----------------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|------------------------|
| Province.                                  | Population. | Having Both Parents— |               |               | of Mixed Parentage.              |                                  |                                  |                                 |                                  |                                 | Percentage Not Stated. |
|                                            |             | Canadian Born.       | British Born. | Foreign Born. | Father Canadian, Mother British. | Father Canadian, Mother Foreign. | Father British, Mother Canadian. | Father British, Mother Foreign. | Father Foreign, Mother Canadian. | Father Foreign, Mother British. |                        |
| P.E. Island.....                           | Totals      | 78,780               | 3,503         | 513           | 1,234                            | 777                              | 2,448                            | 23                              | 696                              | 33                              |                        |
|                                            | Males       | 45,322               | 1,810         | 309           | 682                              | 387                              | 1,264                            | 12                              | 356                              | 14                              |                        |
|                                            | Females     | 42,646               | 1,693         | 204           | 582                              | 390                              | 1,184                            | 11                              | 340                              | 15                              |                        |
| Nova Scotia.....                           | Totals      | 512,846              | 44,410        | 13,657        | 11,923                           | 5,109                            | 17,654                           | 691                             | 5,643                            | 932                             |                        |
|                                            | Males       | 263,104              | 22,720        | 8,030         | 5,945                            | 3,825                            | 8,825                            | 328                             | 2,857                            | 468                             |                        |
|                                            | Females     | 249,742              | 21,690        | 5,627         | 5,978                            | 2,537                            | 8,829                            | 363                             | 2,786                            | 243                             |                        |
| New Brunswick.....                         | Totals      | 408,219              | 344,418       | 21,746        | 7,331                            | 8,575                            | 10,825                           | 539                             | 6,962                            | 433                             |                        |
|                                            | Males       | 208,620              | 175,535       | 11,329        | 3,760                            | 4,563                            | 5,463                            | 277                             | 3,573                            | 217                             |                        |
|                                            | Females     | 199,599              | 168,883       | 10,417        | 3,497                            | 4,222                            | 5,362                            | 262                             | 3,389                            | 216                             |                        |
| Quebec.....                                | Totals      | 2,874,255            | 2,402,211     | 172,803       | 19,282                           | 39,826                           | 31,135                           | 3,503                           | 39,860                           | 4,167                           |                        |
|                                            | Males       | 1,447,124            | 1,201,484     | 88,204        | 9,527                            | 19,767                           | 15,216                           | 1,680                           | 20,023                           | 2,131                           |                        |
|                                            | Females     | 1,427,131            | 1,200,727     | 85,996        | 9,755                            | 20,059                           | 15,919                           | 1,823                           | 19,837                           | 2,071                           |                        |
| Ontario.....                               | Totals      | 3,431,683            | 3,081,337     | 369,208       | 125,565                          | 48,619                           | 204,415                          | 15,359                          | 57,760                           | 14,930                          |                        |
|                                            | Males       | 1,748,844            | 1,464,266     | 210,872       | 61,867                           | 23,919                           | 99,275                           | 7,531                           | 28,435                           | 7,360                           |                        |
|                                            | Females     | 1,682,839            | 1,617,071     | 158,336       | 63,698                           | 24,700                           | 105,140                          | 7,823                           | 29,325                           | 7,570                           |                        |
| Manitoba.....                              | Totals      | 700,139              | 651,460       | 177,829       | 20,329                           | 13,964                           | 32,212                           | 4,834                           | 21,159                           | 3,284                           |                        |
|                                            | Males       | 368,065              | 328,620       | 95,522        | 10,357                           | 7,041                            | 16,226                           | 2,460                           | 10,509                           | 1,739                           |                        |
|                                            | Females     | 332,074              | 322,840       | 82,307        | 9,972                            | 6,923                            | 15,986                           | 2,374                           | 10,654                           | 1,555                           |                        |
| Saskatchewan.....                          | Totals      | 921,785              | 816,312       | 170,356       | 396,619                          | 21,928                           | 28,312                           | 8,999                           | 36,198                           | 6,851                           |                        |
|                                            | Males       | 499,935              | 402,974       | 95,127        | 218,004                          | 11,504                           | 16,881                           | 4,774                           | 18,372                           | 3,614                           |                        |
|                                            | Females     | 421,850              | 413,338       | 75,229        | 188,615                          | 10,304                           | 13,798                           | 4,225                           | 17,826                           | 3,237                           |                        |
| Alberta.....                               | Totals      | 731,605              | 645,710       | 169,218       | 15,937                           | 23,029                           | 23,000                           | 10,268                          | 25,854                           | 8,757                           |                        |
|                                            | Males       | 400,199              | 347,551       | 93,347        | 7,320                            | 11,846                           | 12,055                           | 5,370                           | 12,800                           | 4,486                           |                        |
|                                            | Females     | 331,406              | 298,159       | 75,871        | 8,617                            | 11,183                           | 10,945                           | 4,898                           | 12,800                           | 4,271                           |                        |
| British Columbia.....                      | Totals      | 694,263              | 635,032       | 289,778       | 23,078                           | 13,960                           | 34,670                           | 9,723                           | 13,339                           | 7,675                           |                        |
|                                            | Males       | 385,219              | 328,517       | 153,817       | 106,754                          | 7,095                            | 17,591                           | 5,012                           | 6,639                            | 3,880                           |                        |
|                                            | Females     | 309,044              | 306,515       | 57,184        | 11,384                           | 6,865                            | 17,079                           | 4,711                           | 6,650                            | 3,795                           |                        |
| Canada.....                                | Totals      | 10,376,786           | 9,359,607     | 1,659,695     | 246,627                          | 182,265                          | 388,296                          | 54,009                          | 287,669                          | 47,092                          |                        |
|                                            | Males       | 5,374,541            | 4,659,038     | 833,222       | 123,532                          | 91,548                           | 192,910                          | 27,483                          | 138,854                          | 23,885                          |                        |
|                                            | Females     | 5,002,245            | 4,699,569     | 826,473       | 123,095                          | 90,717                           | 195,386                          | 26,526                          | 148,815                          | 23,207                          |                        |



**Canadian Born, by Racial Origin and Nativity of Parents.**—Table 31 gives the racial composition of the Canadian-born population classified according to the nativity of parents, 1931. Not counting aborigines, among whom a very high proportion of Canadian parentage is naturally to be found, the Canadian born of French origin have the largest number (2,718,318), with both parents Canadian born; this is in excess of the total British races under the same category, and expressed as a percentage to total Canadian born of French origin was no less than 95·36. Of the British races the Irish have the highest percentage with both parents Canadian born (66·43 p.c.). It is to be noted, however, that in the case of the British races there are very much higher proportions than for other races in the class "one parent Canadian, other British". The Canadian born with both parents foreign are most numerous among those of the German and Ukrainian races but relatively, *i.e.*, on a percentage basis, they are highest among the Chinese and Japanese, the Finnish, the Hungarians, the Ukrainians, the Czechs and Slovaks, the Hebrews and the Austrians in the order named. All these have over 80 p.c. of their numbers with both parents foreign born; the maximum proportion is reached in the case of the Chinese and Japanese with 92·03 p.c.

Third generation Canadians, or those Canadian born both of whose parents are Canadian born, are most numerous, absolutely, among the French, English, Irish, Scottish, German and Dutch respectively, and, relatively, among the Indians and Eskimos, the French, the Dutch, the Irish, the Scottish and the English respectively.

**Population, other than Canadian Born, by Year of Arrival.**—Table 32 shows the number of people born outside Canada by year of arrival. Of those whose years of arrival were given, 32 p.c. entered Canada in the ten-year period 1921-31 and 29 p.c. in the previous decade, while nearly 39 p.c. reported a date prior to 1911. It may also be noted that 255,379 of all those born elsewhere than in Canada had been in Canada 30 years or more at the time of the Census of 1931.

This section of the population residing in Canada in 1931 was distributed geographically as follows: Maritime Provinces 3·0 p.c., Quebec 10·9 p.c., Ontario 34·9 p.c., Prairie Provinces, 47·3 p.c.; British Columbia 13·9 p.c. Of those born outside Canada and residing in the Maritime Provinces, 41·8 p.c. were classified as rural and 58·2 p.c. as urban; for Quebec, only 9·6 p.c. were rural and 90·4 p.c. were urban; proportions in Ontario were 27·2 p.c. and 72·8 p.c., respectively; in British Columbia, 41·8 p.c. were rural and 58·2 p.c. urban; in the Prairie Provinces, on the other hand, 60·26 p.c. were rural and 39·74 p.c. urban. Thus it is seen that while less than 10 p.c. of the "other than Canadian born" in the province of Quebec were rural, over 60 p.c. were so classified in the Prairie Provinces. The other provinces fall between these extremes.

31.—Canadian-Born Population Classified According to Nativity of Parents, by Racial Origin, 1931.  
NUMERICAL DISTRIBUTION.

| Persons Born in Canada        |                  | Of Mixed Parentage.                       |                |                                          |                |                                           |                | Parent-<br>age<br>Not<br>Stated.         |                |                                                 |     |
|-------------------------------|------------------|-------------------------------------------|----------------|------------------------------------------|----------------|-------------------------------------------|----------------|------------------------------------------|----------------|-------------------------------------------------|-----|
|                               |                  | Father<br>Canadian,<br>Mother<br>Foreign. |                | Father<br>British,<br>Mother<br>Foreign. |                | Father<br>Foreign,<br>Mother<br>Canadian. |                | Father<br>Foreign,<br>Mother<br>British. |                | One<br>Parent<br>Canadian,<br>Other<br>British. |     |
|                               |                  | No.                                       | No.            | No.                                      | No.            | No.                                       | No.            | No.                                      | No.            | No.                                             | No. |
| British Races.....            | 4,033,097        | 2,419,225                                 | 767,070        | 46,751                                   | 90,061         | 40,100                                    | 57,342         | 17,329                                   | 589,492        | 5,637                                           |     |
| English.....                  | 1,920,259        | 1,061,180                                 | 431,915        | 22,680                                   | 38,532         | 23,964                                    | 28,025         | 9,130                                    | 301,657        | 3,176                                           |     |
| Irish.....                    | 1,053,449        | 1,099,774                                 | 141,620        | 13,341                                   | 26,249         | 6,839                                     | 13,866         | 4,282                                    | 144,328        | 1,150                                           |     |
| Scottish.....                 | 1,022,915        | 643,143                                   | 183,584        | 9,378                                    | 24,271         | 8,282                                     | 12,467         | 3,505                                    | 136,996        | 1,289                                           |     |
| Other.....                    | 36,384           | 15,128                                    | 9,951          | 1,352                                    | 1,009          | 1,015                                     | 42,015         | 2,495                                    | 6,511          | 22                                              |     |
| French.....                   | 2,850,576        | 2,718,318                                 | 21,626         | 20,785                                   | 48,236         | 2,263                                     | 42,015         | 2,495                                    | 13,631         | 3,206                                           |     |
| Austrian, <i>n.e.s.</i> ..... | 26,119           | 1,145                                     | 26             | 21,724                                   | 371            | 7                                         | 2,515          | 408                                      | 72             | 35                                              |     |
| Belgian.....                  | 11,194           | 1,075                                     | 44             | 7,345                                    | 162            | 9                                         | 2,015          | 149                                      | 130            | 16                                              |     |
| Czech and Slovak.....         | 8,437            | 324                                       | 10             | 7,148                                    | 142            | 1                                         | 693            | 97                                       | 36             | 54                                              |     |
| Dutch.....                    | 119,006          | 83,426                                    | 208            | 18,161                                   | 3,652          | 34                                        | 6,855          | 1,698                                    | 4,918          | 40                                              |     |
| Finnish.....                  | 12,363           | 289                                       | 18             | 11,073                                   | 182            | 13                                        | 629            | 100                                      | 5,744          | 370                                             |     |
| German.....                   | 328,945          | 154,823                                   | 624            | 122,069                                  | 11,180         | 227                                       | 29,339         | 4,555                                    | 5,644          | 131                                             |     |
| Hobrow.....                   | 68,703           | 2,365                                     | 829            | 58,140                                   | 11,230         | 755                                       | 2,980          | 1,639                                    | 142            | 9                                               |     |
| Hungarian.....                | 11,298           | 323                                       | 6              | 9,927                                    | 121            | —                                         | 826            | 74                                       | 339            | 75                                              |     |
| Italian.....                  | 52,136           | 2,649                                     | 382            | 39,527                                   | 353            | 44                                        | 7,175          | 422                                      | 143            | 125                                             |     |
| Polish.....                   | 68,459           | 4,892                                     | 39             | 56,741                                   | 945            | 38                                        | 5,114          | 205                                      | 83             | 63                                              |     |
| Romanian.....                 | 14,759           | 264                                       | 10             | 12,727                                   | 65             | 5                                         | 1,431          | 205                                      | 25             | 63                                              |     |
| Russian.....                  | 47,618           | 5,368                                     | 36             | 36,440                                   | 967            | 27                                        | 4,056          | 575                                      | 938            | 113                                             |     |
| Scandinavian.....             | 99,333           | 7,361                                     | 380            | 70,385                                   | 1,978          | 68                                        | 13,176         | 4,966                                    | 37             | 18                                              |     |
| Ukrainian.....                | 128,281          | 3,490                                     | 54             | 112,226                                  | 977            | 29                                        | 11,443         | 328                                      | 47             | 18                                              |     |
| Asiatic Races.....            | 24,311           | 535                                       | 201            | 21,018                                   | 287            | 11                                        | 1,835          | 133                                      | 31             | 31                                              |     |
| Chinese and Japanese.....     | 16,707           | 205                                       | 7              | 15,375                                   | 213            | 4                                         | 745            | 205                                      | 9              | 80                                              |     |
| Other.....                    | 7,604            | 329                                       | 194            | 5,643                                    | 761            | 29                                        | 1,090          | 1,456                                    | 856            | 3,640                                           |     |
| Indian and Eskimo.....        | 127,953          | 58                                        | 58             | 5,645                                    | 506            | 115                                       | 2,791          | 1,064                                    | 1,077          | 13,717                                          |     |
| Unspecified and other.....    | 36,783           | 16,054                                    | 987            | 10,489                                   | 506            | 115                                       | 2,791          | 1,064                                    | 1,077          | 13,717                                          |     |
| <b>Totals.....</b>            | <b>8,069,261</b> | <b>5,516,091</b>                          | <b>772,608</b> | <b>683,219</b>                           | <b>162,245</b> | <b>41,815</b>                             | <b>193,362</b> | <b>37,975</b>                            | <b>618,229</b> | <b>13,717</b>                                   |     |

## 31.—Canadian-Born Population Classified According to Nativity of Parents, by Racial Origin, 1931.—concluded.

## PERCENTAGE DISTRIBUTION.

| Racial Origin.                | Canadian-Born Population. | Having Both Parents— |               |               | Persons Born in Canada—          |                                 |                           |                          |                                     | Parent-age Not Stated. |
|-------------------------------|---------------------------|----------------------|---------------|---------------|----------------------------------|---------------------------------|---------------------------|--------------------------|-------------------------------------|------------------------|
|                               |                           | Canadian Born.       | British Born. | Foreign Born. | Of Mixed Parentage.              |                                 |                           |                          |                                     |                        |
|                               |                           |                      |               |               | Father Canadian, Mother Foreign. | Father British, Mother Foreign. | Father Foreign, Canadian. | Father Foreign, British. | One Parent Canadian, Other British. |                        |
|                               | p.c.                      | p.c.                 | p.c.          | p.c.          | p.c.                             | p.c.                            | p.c.                      | p.c.                     | p.c.                                | p.c.                   |
| British Races.....            | 100.00                    | 59.99                | 19.02         | 1.16          | 2.23                             | 0.99                            | 1.42                      | 0.43                     | 14.62                               | 0.14                   |
| English.....                  | 100.00                    | 55.26                | 22.49         | 1.18          | 2.01                             | 1.25                            | 1.46                      | 0.48                     | 15.71                               | 0.17                   |
| Irish.....                    | 100.00                    | 66.45                | 13.44         | 1.27          | 2.49                             | 0.65                            | 1.51                      | 0.41                     | 13.70                               | 0.11                   |
| Scottish.....                 | 100.00                    | 62.87                | 17.95         | 0.92          | 2.37                             | 0.81                            | 1.22                      | 0.34                     | 13.39                               | 0.13                   |
| Other.....                    | 100.00                    | 41.58                | 27.35         | 3.72          | 2.77                             | 2.79                            | 2.70                      | 1.13                     | 17.90                               | 0.06                   |
| French.....                   | 100.00                    | 95.36                | 0.06          | 0.75          | 1.69                             | 0.01                            | 1.47                      | 0.09                     | 0.48                                | 0.11                   |
| Austrian, <i>n.e.s.</i> ..... | 100.00                    | 4.38                 | 0.10          | 83.17         | 1.42                             | 0.03                            | 0.65                      | 0.83                     | 0.28                                | 0.13                   |
| Belgian.....                  | 100.00                    | 9.61                 | 0.39          | 85.62         | 1.45                             | 0.08                            | 18.00                     | 3.64                     | 1.07                                | 0.33                   |
| Czech and Slovak.....         | 100.00                    | 3.84                 | 0.12          | 84.72         | 1.68                             | 0.01                            | 7.86                      | 1.15                     | 0.43                                | 0.19                   |
| Dutch.....                    | 100.00                    | 70.10                | 0.17          | 15.26         | 3.07                             | 0.03                            | 5.76                      | 1.43                     | 4.13                                | 0.05                   |
| Finnish.....                  | 100.00                    | 2.34                 | 0.15          | 89.57         | 1.47                             | 0.11                            | 5.09                      | 0.88                     | 0.32                                | 0.06                   |
| German.....                   | 100.00                    | 47.07                | 0.19          | 37.11         | 3.40                             | 0.07                            | 8.92                      | 1.38                     | 1.75                                | 0.11                   |
| Hebrew.....                   | 100.00                    | 3.44                 | 1.21          | 84.63         | 1.79                             | 1.16                            | 4.34                      | 2.39                     | 0.86                                | 0.08                   |
| Hungarian.....                | 100.00                    | 2.86                 | 0.05          | 87.87         | 1.07                             | -                               | 7.31                      | 0.65                     | 0.11                                | 0.03                   |
| Italian.....                  | 100.00                    | 5.08                 | 0.73          | 75.82         | 0.68                             | 0.08                            | 13.75                     | 3.05                     | 0.65                                | 0.14                   |
| Polish.....                   | 100.00                    | 7.15                 | 0.09          | 82.88         | 1.38                             | 0.06                            | 7.47                      | 0.62                     | 0.21                                | 0.18                   |
| Romanian.....                 | 100.00                    | 1.79                 | 0.07          | 86.35         | 0.44                             | 0.03                            | 9.71                      | 1.40                     | 0.17                                | 0.04                   |
| Russian.....                  | 100.00                    | 11.27                | 0.08          | 76.53         | 2.03                             | 0.06                            | 8.52                      | 1.21                     | 0.18                                | 0.13                   |
| Scandinavian.....             | 100.00                    | 7.41                 | 0.38          | 70.86         | 1.99                             | 0.07                            | 13.26                     | 5.00                     | 0.94                                | 0.08                   |
| Ukrainian.....                | 100.00                    | 2.72                 | 0.04          | 87.48         | 0.76                             | 0.02                            | 8.69                      | 0.15                     | 0.05                                | 0.09                   |
| Asiatic Races.....            | 100.00                    | 2.20                 | 0.83          | 86.45         | 1.18                             | 0.05                            | 7.55                      | 1.35                     | 0.19                                | 0.20                   |
| Chinese and Japanese.....     | 100.00                    | 1.23                 | 0.04          | 92.03         | 1.27                             | 0.02                            | 4.46                      | 0.74                     | 0.10                                | 0.11                   |
| Other.....                    | 100.00                    | 4.33                 | 2.55          | 74.21         | 0.97                             | 0.09                            | 14.33                     | 2.70                     | 0.41                                | 0.06                   |
| Indian and Eskimo.....        | 100.00                    | 97.03                | 0.05          | 0.43          | 0.59                             | 0.02                            | 1.14                      | 0.01                     | 0.67                                | 0.06                   |
| Unspecified and other.....    | 100.00                    | 43.65                | 2.68          | 28.52         | 1.54                             | 0.31                            | 7.59                      | 2.89                     | 2.93                                | 9.90                   |
| Totals.....                   | 100.00                    | 68.73                | 9.57          | 8.47          | 2.01                             | 0.52                            | 2.40                      | 0.47                     | 7.66                                | 0.17                   |

32.—Population other than Canadian Born, Classified by Provinces, According to Year of Arrival in Canada, Rural and Urban, 1931.

| Year of Arrival.         | Canada. <sup>1</sup> | Prince<br>Edward<br>Island. | Nova<br>Scotia. | New<br>Brunswick. | Quebec. | Ontario. | Manitoba. | Saskat-<br>chewan. | Alberta. | British<br>Columbia. |
|--------------------------|----------------------|-----------------------------|-----------------|-------------------|---------|----------|-----------|--------------------|----------|----------------------|
| 1931 (5 months).....     | 11,888               | 41                          | 549             | 651               | 2,255   | 4,751    | 550       | 734                | 903      | 1,428                |
| Rural.....               | 5,377                | 35                          | 299             | 517               | 1,390   | 1,945    | 245       | 504                | 668      | 769                  |
| Urban.....               | 6,511                | 6                           | 250             | 134               | 1,865   | 2,806    | 305       | 230                | 235      | 659                  |
| 1930.....                | 69,339               | 233                         | 1,780           | 1,755             | 12,070  | 26,735   | 5,596     | 6,618              | 8,798    | 5,732                |
| Rural.....               | 38,803               | 179                         | 871             | 1,353             | 1,508   | 9,197    | 3,159     | 4,907              | 6,720    | 2,804                |
| Urban.....               | 38,536               | 54                          | 909             | 402               | 10,562  | 17,538   | 2,437     | 1,711              | 2,078    | 2,838                |
| 1929.....                | 100,797              | 208                         | 1,841           | 1,861             | 14,365  | 41,136   | 7,663     | 10,562             | 15,103   | 8,103                |
| Rural.....               | 42,506               | 161                         | 744             | 1,419             | 1,310   | 12,283   | 3,998     | 7,504              | 11,049   | 4,035                |
| Urban.....               | 58,291               | 47                          | 1,097           | 442               | 13,046  | 28,853   | 3,665     | 3,058              | 3,964    | 4,068                |
| 1928.....                | 108,650              | 159                         | 1,734           | 1,489             | 13,778  | 37,890   | 8,829     | 13,766             | 16,697   | 9,278                |
| Rural.....               | 44,989               | 112                         | 667             | 1,169             | 1,389   | 11,565   | 4,148     | 9,600              | 11,442   | 4,860                |
| Urban.....               | 58,681               | 47                          | 1,067           | 320               | 12,389  | 26,325   | 4,681     | 4,166              | 5,255    | 4,418                |
| 1927.....                | 97,351               | 203                         | 1,665           | 1,103             | 11,773  | 35,608   | 8,805     | 13,608             | 14,760   | 9,788                |
| Rural.....               | 43,339               | 157                         | 639             | 844               | 1,136   | 10,856   | 4,344     | 9,842              | 10,403   | 5,098                |
| Urban.....               | 54,012               | 46                          | 1,026           | 259               | 10,637  | 24,752   | 4,461     | 3,766              | 4,357    | 4,690                |
| 1926.....                | 85,236               | 124                         | 1,404           | 747               | 10,563  | 31,790   | 8,188     | 11,313             | 11,993   | 9,084                |
| Rural.....               | 37,721               | 80                          | 458             | 524               | 855     | 9,851    | 4,332     | 8,298              | 8,642    | 4,656                |
| Urban.....               | 47,515               | 35                          | 946             | 223               | 9,708   | 21,939   | 3,856     | 3,015              | 3,351    | 4,428                |
| 1921-1925.....           | 280,387              | 343                         | 5,177           | 2,410             | 33,929  | 120,126  | 24,553    | 28,609             | 29,760   | 35,344               |
| Rural.....               | 103,242              | 199                         | 1,408           | 1,288             | 2,632   | 33,375   | 11,401    | 19,210             | 18,553   | 15,099               |
| Urban.....               | 177,145              | 144                         | 3,769           | 1,122             | 31,297  | 86,751   | 13,152    | 9,399              | 11,207   | 20,245               |
| 1916-1920.....           | 105,529              | 292                         | 4,067           | 2,524             | 19,990  | 71,670   | 15,280    | 22,791             | 26,724   | 31,201               |
| Rural.....               | 71,610               | 188                         | 1,418           | 1,337             | 1,813   | 17,616   | 6,594     | 13,461             | 16,107   | 12,055               |
| Urban.....               | 123,919              | 104                         | 3,549           | 1,187             | 18,177  | 54,054   | 8,715     | 8,330              | 10,617   | 19,146               |
| 1911-1915.....           | 474,346              | 264                         | 6,690           | 3,350             | 46,886  | 164,345  | 50,437    | 70,092             | 63,611   | 68,515               |
| Rural.....               | 174,881              | 151                         | 1,782           | 1,664             | 3,352   | 41,171   | 20,286    | 45,557             | 35,196   | 25,637               |
| Urban.....               | 299,465              | 113                         | 4,908           | 1,686             | 43,534  | 123,174  | 30,151    | 24,535             | 28,415   | 42,878               |
| 1901-1910.....           | 695,174              | 332                         | 9,390           | 4,299             | 54,881  | 173,389  | 74,749    | 112,657            | 95,674   | 99,408               |
| Rural.....               | 293,798              | 201                         | 2,312           | 2,097             | 4,433   | 42,905   | 34,667    | 78,050             | 59,831   | 39,831               |
| Urban.....               | 361,376              | 131                         | 7,078           | 2,202             | 50,398  | 130,483  | 40,082    | 34,607             | 36,837   | 59,577               |
| Before 1901.....         | 255,379              | 544                         | 6,361           | 4,124             | 30,402  | 93,701   | 31,200    | 26,239             | 21,399   | 40,785               |
| Rural.....               | 104,427              | 298                         | 1,938           | 2,160             | 5,025   | 27,347   | 18,309    | 17,789             | 13,016   | 18,150               |
| Urban.....               | 150,952              | 246                         | 4,423           | 1,955             | 25,377  | 66,354   | 12,891    | 8,450              | 8,383    | 22,635               |
| Totals.....              | 2,397,525            | 2,787                       | 41,797          | 24,401            | 251,743 | 804,285  | 236,559   | 318,545            | 305,738  | 319,529              |
| Rural <sup>2</sup> ..... | 923,894              | 1,796                       | 12,630          | 14,421            | 24,117  | 21,077   | 111,666   | 216,006            | 191,132  | 133,631              |
| Urban <sup>2</sup> ..... | 1,381,631            | 991                         | 29,167          | 9,980             | 227,626 | 585,208  | 124,923   | 102,539            | 114,606  | 185,898              |

<sup>1</sup>These totals include relatively small numbers who did not state the years of their arrival.<sup>2</sup>This column includes Northwest Territories and Yukon.



## Section 8.—Citizenship and Naturalization.

At the last four decennial censuses, those of 1901, 1911, 1921 and 1931, inquiry has been made into the citizenship of the foreign-born population. The relevant instructions to enumerators at the Census of 1931 were as follows:—

"The term 'Canadian' should be used as descriptive of every person whose home is in the country and who has rights of citizenship in Canada. Every person born in Canada should be entered as 'Canadian' unless he or she has subsequently become the citizen of another country. Similarly any person born in the United Kingdom or in any of the British Dominions or dependencies, who has not subsequently become the citizen of another country, and who is now permanently domiciled\* in Canada, should be entered as 'Canadian'. Similarly also, any person born in the United States, France, Germany or any other foreign country, but whose home is now in Canada, and who has become a naturalized citizen of Canada, should be entered as 'Canadian'.

"An alien person should be classed . . . as of the nationality or citizenship of the country to which he or she professes to owe allegiance.

"A married woman is to be reported as of the same citizenship as her husband.

"A foreign-born child under 21 years of age is to be reported as of the same citizenship as the parents.

"The law of Canada relating to nationality is contained in the Immigration Act, (Chapter 93, Revised Statutes of Canada, 1927) under which a 'Canadian' by nationality is defined as—

"(I) A person born in Canada who has not become an alien;

"(II) A British subject who has Canadian domicile;\*

"(III) A person naturalized under the laws of Canada who has not subsequently become an alien or lost Canadian domicile.\*

" . . . Following the participation of Canada in the Treaty of Versailles and in membership of the League of Nations, Canadian nationality was defined by Act of Parliament ('An Act to define Canadian Nationals and to provide for the Renunciation of Canadian Nationality', Chapter 21, Revised Statutes of Canada, 1927), as including:—

"(a) any British subject who is a Canadian citizen within the meaning of the Immigration Act, Chapter 27 of the Statutes of 1910 as heretofore amended.

"(b) the wife of any such person;

"(c) any person born out of Canada, whose father was a Canadian National at the time of that person's birth, or with regard to persons born before the passing of this Act, any person whose father at the time of such birth possessed all the qualifications of a Canadian National as defined in this Act.

"In connection with the last paragraph it should be noted that a child of Canadian parents domiciled in a foreign country retains Canadian nationality up to the age of 21 years, and should he become domiciled\* in Canada prior to that age does not require to be naturalized.

"It is proper to use the term 'Canadian' . . . when the information furnished by the individual conforms to the foregoing definitions and explanations."

Table 33 deals with the citizenship of the Canadian born, the British born and the foreign born of the population residing in Canada at the date of the Census of 1931. As regards the total (8,069,261) native-born population, 8,052,459 were "Canadian Nationals" and were made up of 8,051,142 persons with uninterrupted citizenship and 1,317 naturalized repatriates. Of the total native born resident in Canada at the date of the census, 16,802 were aliens owing their allegiance to some foreign country—in the case of females usually as a result of marriage. The table also shows that of this number (16,802) of Canadians of alien nationality, 5,991 owed allegiance to various European countries, 286 to Asiatic countries and 10,477 to the United States.

The second part of the table shows that of the total number (1,184,830) of British born in Canada on June 1, 1931, all were not "Canadian Nationals" within the meaning of the Immigration Act already quoted, there being 135,426 who had

\*Canadian domicile can only be acquired for the purposes of the Immigration Act by a person having his domicile for at least five years in Canada after having been landed therein.

not acquired domicile and who were liable to certain disabilities. Many of these however may exercise the rights of citizenship in Canada as provided by Sec. 4 of The Dominion Franchise Act (c. 51 of the Statutes of 1934).

The nationality of the foreign-born population is classified according to their country of birth. The third part of the table shows that in a large measure persons of foreign birth have either become Canadian subjects or have retained allegiance to the country of their birth. While this is generally true, yet in some instances the country of birth of the European population does not indicate their nationality. For example, of the total number of persons (17,033) born in Belgium 8,465 were of Canadian nationality, while of the remainder (8,656) claiming Belgian nationality only 8,258 were born in Belgium, leaving 259 born in contiguous countries—France, Germany, or Holland, while 114 were born in the United States.

**33.—Citizenship of Native Born, British Born and Foreign Born Residents in Canada in 1931, by Sex, According to Country of Allegiance.**

| Nationality.                                            | NATIVE BORN.     |                  |                  | Nationality.                                           | BRITISH BORN.    |                |                |
|---------------------------------------------------------|------------------|------------------|------------------|--------------------------------------------------------|------------------|----------------|----------------|
|                                                         | Total.           | Male.            | Female.          |                                                        | Total.           | Male.          | Female.        |
| Canadian-born nationals—Totals.....                     | 8,052,459        | 4,074,715        | 3,977,744        | British born, Canadian nationals....                   | 1,044,791        | 556,043        | 488,748        |
| With uninterrupted citizenship.....                     | 8,051,142        | 4,074,053        | 3,977,089        | By domicile.....                                       | 1,042,781        | 555,062        | 487,719        |
| Repatriated and naturalized.....                        | 1,317            | 662              | 655              | By repatriation and naturalization.....                | 2,010            | 981            | 1,029          |
| Canadian-born aliens (by renunciation or marriage)..... | 16,802           | 1,286            | 15,516           | British born without acquired domicile.....            | 135,426          | 74,687         | 60,739         |
| Owing allegiance to:                                    |                  |                  |                  | British-born aliens (by renunciation or marriage)..... | 4,613            | 681            | 3,932          |
| European countries.....                                 | 5,991            | 92               | 5,899            | Owing allegiance to:                                   |                  |                |                |
| Austria.....                                            | 331              | 7                | 324              | European countries.....                                | 1,625            | 154            | 1,471          |
| Belgium.....                                            | 208              | 4                | 204              | Austria.....                                           | 30               | 2              | 28             |
| Czechoslovakia.....                                     | 74               | 2                | 72               | Belgium.....                                           | 88               | 7              | 81             |
| Denmark.....                                            | 187              | 5                | 182              | Czechoslovakia.....                                    | 9                | 1              | 8              |
| Finland.....                                            | 125              | 7                | 118              | Denmark.....                                           | 171              | 7              | 164            |
| France.....                                             | 378              | 2                | 376              | Finland.....                                           | 18               | 4              | 14             |
| Germany.....                                            | 390              | 8                | 382              | France.....                                            | 96               | 11             | 85             |
| Greece.....                                             | 71               | —                | 71               | Germany.....                                           | 146              | 19             | 127            |
| Holland.....                                            | 130              | —                | 130              | Greece.....                                            | 34               | 2              | 32             |
| Hungary.....                                            | 80               | 6                | 74               | Holland.....                                           | 137              | 12             | 125            |
| Iceland.....                                            | 17               | 3                | 14               | Hungary.....                                           | 18               | 1              | 17             |
| Italy.....                                              | 763              | 4                | 759              | Iceland.....                                           | 4                | —              | 4              |
| Lithuania.....                                          | 15               | —                | 15               | Italy.....                                             | 157              | 12             | 145            |
| Norway.....                                             | 197              | 3                | 194              | Lithuania.....                                         | 29               | 9              | 20             |
| Poland.....                                             | 1,286            | 17               | 1,269            | Norway.....                                            | 109              | 9              | 100            |
| Roumania.....                                           | 395              | 1                | 394              | Poland.....                                            | 90               | 13             | 77             |
| Russia.....                                             | 712              | 10               | 702              | Roumania.....                                          | 33               | 2              | 31             |
| Sweden.....                                             | 240              | 2                | 238              | Russia.....                                            | 164              | 19             | 145            |
| Switzerland.....                                        | 117              | 3                | 114              | Sweden.....                                            | 133              | 6              | 127            |
| Ukraine.....                                            | 155              | —                | 155              | Switzerland.....                                       | 100              | 8              | 92             |
| Yugoslavia.....                                         | 51               | 3                | 48               | Ukraine.....                                           | 13               | 3              | 10             |
| Other.....                                              | 69               | 5                | 64               | Yugoslavia.....                                        | 8                | 3              | 5              |
| Asiatic countries.....                                  | 286              | 20               | 266              | Other.....                                             | 38               | 4              | 34             |
| China.....                                              | 137              | 10               | 127              | Asiatic countries.....                                 | 32               | 6              | 26             |
| Japan.....                                              | 84               | 7                | 77               | China.....                                             | 23               | 5              | 18             |
| Other.....                                              | 65               | 3                | 62               | Japan.....                                             | 2                | —              | 2              |
| United States.....                                      | 10,477           | 1,170            | 9,307            | Other.....                                             | 7                | 1              | 6              |
| Other countries.....                                    | 48               | 4                | 44               | United States.....                                     | 2,914            | 506            | 2,408          |
| <b>Totals,</b>                                          |                  |                  |                  | Other countries.....                                   | 42               | 15             | 27             |
| <b>Canadian Born .....</b>                              | <b>8,069,261</b> | <b>4,076,001</b> | <b>3,993,260</b> | <b>Totals,</b>                                         |                  |                |                |
|                                                         |                  |                  |                  | <b>British Born.....</b>                               | <b>1,181,830</b> | <b>631,411</b> | <b>553,419</b> |

### 33.—Citizenship of Native Born, British Born and Foreign Born Residents in Canada in 1931, by Sex, According to Country of Allegiance—concluded

| Nationality.         | FOREIGN BORN.       |                            |                |                |               |               |              |                     |                |                |
|----------------------|---------------------|----------------------------|----------------|----------------|---------------|---------------|--------------|---------------------|----------------|----------------|
|                      | Total. <sup>1</sup> | Continental European Born. |                |                | Born in Asia. |               |              | United States Born. |                |                |
|                      |                     | Total.                     | Male.          | Female.        | Total.        | Male.         | Female.      | Total.              | Male.          | Female.        |
| Canadian nationals   | 614,971             | 351,013                    | 197,043        | 153,970        | 12,119        | 7,826         | 4,293        | 249,595             | 118,104        | 131,491        |
| Aliens.....          | 507,724             | 363,449                    | 241,140        | 122,309        | 48,489        | 44,349        | 4,140        | 94,979              | 57,036         | 37,943         |
| European             |                     |                            |                |                |               |               |              |                     |                |                |
| nationalities...     | 363,754             | 358,198                    | 238,366        | 119,832        | 330           | 179           | 151          | 4,822               | 1,991          | 2,831          |
| Austria.....         | 12,690              | 12,564                     | 8,525          | 4,039          | 3             | 1             | 2            | 121                 | 41             | 80             |
| Belgium.....         | 8,656               | 8,539                      | 5,091          | 3,448          | —             | —             | —            | 114                 | 48             | 66             |
| Czechoslovakia..     | 18,409              | 18,263                     | 14,196         | 4,067          | 3             | 2             | 1            | 142                 | 65             | 77             |
| Denmark.....         | 11,920              | 11,663                     | 8,482          | 3,181          | 12            | 7             | 5            | 238                 | 89             | 149            |
| Finland.....         | 21,539              | 21,303                     | 13,644         | 7,659          | 2             | 1             | 1            | 234                 | 109            | 125            |
| France.....          | 5,711               | 5,373                      | 3,062          | 2,311          | 25            | 15            | 10           | 110                 | 42             | 68             |
| Germany.....         | 22,222              | 21,646                     | 14,385         | 7,261          | 11            | 6             | 5            | 545                 | 237            | 308            |
| Greece.....          | 2,090               | 2,013                      | 1,593          | 420            | 45            | 30            | 15           | 31                  | 16             | 15             |
| Holland.....         | 7,002               | 6,862                      | 4,509          | 2,353          | 17            | 10            | 7            | 104                 | 43             | 61             |
| Hungary.....         | 21,918              | 21,729                     | 15,026         | 6,703          | —             | —             | —            | 187                 | 75             | 112            |
| Iceland.....         | 472                 | 450                        | 211            | 239            | —             | —             | —            | 22                  | 9              | 13             |
| Italy.....           | 16,167              | 15,820                     | 10,771         | 5,049          | 3             | 2             | 1            | 297                 | 118            | 179            |
| Lithuania.....       | 4,154               | 4,105                      | 2,764          | 1,341          | 1             | 1             | —            | 47                  | 25             | 22             |
| Norway.....          | 14,023              | 13,297                     | 10,008         | 3,289          | 7             | 4             | 3            | 716                 | 317            | 399            |
| Poland.....          | 90,335              | 89,796                     | 58,047         | 31,749         | 13            | 4             | 9            | 514                 | 233            | 281            |
| Roumania.....        | 17,044              | 16,883                     | 11,233         | 5,650          | 13            | 8             | 5            | 144                 | 50             | 94             |
| Russia.....          | 46,530              | 45,728                     | 25,361         | 20,367         | 149           | 73            | 76           | 620                 | 230            | 390            |
| Sweden.....          | 13,951              | 13,505                     | 10,566         | 2,939          | 2             | 1             | 1            | 442                 | 159            | 283            |
| Switzerland.....     | 3,667               | 3,592                      | 2,539          | 1,053          | 3             | 1             | 2            | 62                  | 23             | 39             |
| Ukraine.....         | 9,172               | 9,129                      | 6,139          | 2,990          | 8             | 5             | 3            | 34                  | 16             | 18             |
| Yugoslavia.....      | 13,932              | 13,847                     | 10,704         | 3,143          | 8             | 5             | 3            | 72                  | 37             | 35             |
| Other.....           | 2,150               | 2,091                      | 1,510          | 581            | 5             | 3             | 2            | 26                  | 9              | 17             |
| Asiatic              |                     |                            |                |                |               |               |              |                     |                |                |
| nationalities...     | 48,072              | 63                         | 18             | 45             | 47,935        | 44,047        | 3,888        | 64                  | 27             | 37             |
| China.....           | 38,993              | 23                         | 4              | 19             | 38,949        | 38,135        | 814          | 15                  | 6              | 9              |
| Japan.....           | 7,680               | 3                          | 1              | 2              | 7,653         | 5,143         | 2,510        | 22                  | 9              | 13             |
| Other.....           | 1,399               | 37                         | 13             | 24             | 1,333         | 769           | 564          | 27                  | 12             | 15             |
| United States.....   | 94,984              | 4,726                      | 2,447          | 2,279          | 102           | 53            | 49           | 90,069              | 55,009         | 35,060         |
| Other nationalities. | 914                 | 462                        | 309            | 153            | 122           | 70            | 52           | 24                  | 9              | 15             |
| <b>Totals,</b>       |                     |                            |                |                |               |               |              |                     |                |                |
| <b>Foreign Born</b>  | <b>1,122,695</b>    | <b>714,462</b>             | <b>438,183</b> | <b>276,279</b> | <b>60,608</b> | <b>52,175</b> | <b>8,433</b> | <b>344,574</b>      | <b>175,140</b> | <b>169,434</b> |

<sup>1</sup>This column includes foreign-born persons born in places other than continental Europe, Asia or the United States.

**The Progress of Naturalization.**—The foreign-born residents of Canada numbered 1,122,695 in 1931 as compared with 890,277 in 1921, 752,732 in 1911 and 278,449 in 1901; among these the naturalized numbered 614,971 in 1931, 514,179 in 1921, 344,557 in 1911 and 153,908 in 1901, or 54.78 p.c., 57.75 p.c., 45.77 p.c. and 55.27 p.c. respectively. Alien residents in Canada showed an absolute decline between 1911 and 1921 of from 408,175 to 376,098, *i.e.*, from 5.66 p.c. of the population to 4.28 p.c. Between 1921 and 1931, they increased to 507,724, or 4.89 p.c. of the 1931 population. Among the foreign-born residents of Canada, the United States born exceed those born in any other country, although by continental groups the Europeans are more numerous. Between 1921 and 1931 the U.S. born declined from 374,022 to 344,574, but there was a substantial net increase in the total foreign born due to the large increase of Europeans. On the other hand, the percentage of the U.S. born who are naturalized to total U.S. born has increased from 63.63 in 1921 to 72.44 in 1931, whereas the percentage of continental Europeans who are naturalized has fallen from 57.88 in 1921 to 49.13 in 1931.

Table 34 gives details of the naturalized and alien persons among the foreign-born residents of Canada. The table is divided into pre-war and post-war sections and, while the general totals are comparable throughout the thirty years, the individual totals for those European countries whose boundaries underwent change following the War are not comparable as between the 1901-11 and 1921-31 periods.



### 34.—Numbers and Percentages of Naturalized and Alien Persons Among the Foreign Born Residents of Canada, by Countries of Birth, 1901, 1911, 1921 and 1931.

| Country of Birth.          | PRE-WAR PERIOD.     |                |              |                |              |                     |                |              |                |              |
|----------------------------|---------------------|----------------|--------------|----------------|--------------|---------------------|----------------|--------------|----------------|--------------|
|                            | 1901.               |                |              |                |              | 1911.               |                |              |                |              |
|                            | Total Foreign Born. | Naturalized.   |              | Alien.         |              | Total Foreign Born. | Naturalized.   |              | Alien.         |              |
|                            | No.                 | No.            | p.c.         | No.            | p.c.         | No.                 | No.            | p.c.         | No.            | p.c.         |
| Austria-Hungary.....       | 28,407              | 9,320          | 32.81        | 19,087         | 67.19        | 121,430             | 60,949         | 50.19        | 60,481         | 49.81        |
| Belgium.....               | 2,280               | 1,286          | 56.84        | 984            | 43.16        | 7,975               | 3,265          | 40.94        | 4,710          | 59.06        |
| China.....                 | 17,043              | 668            | 3.92         | 16,375         | 96.08        | 27,083              | 2,578          | 9.52         | 24,505         | 90.48        |
| Denmark.....               | 2,075               | 1,801          | 87.20        | 274            | 12.80        | 4,987               | 2,359          | 47.28        | 2,628          | 52.72        |
| France.....                | 7,944               | 4,975          | 62.63        | 2,969          | 37.37        | 17,619              | 8,911          | 50.58        | 8,708          | 49.42        |
| Germany.....               | 27,300              | 20,883         | 76.49        | 6,417          | 23.51        | 39,577              | 23,283         | 58.83        | 16,294         | 41.17        |
| Greece.....                | 213                 | 95             | 44.60        | 118            | 55.40        | 2,640               | 476            | 18.03        | 2,164          | 81.97        |
| Holland.....               | 335                 | 198            | 59.43        | 137            | 40.57        | 3,808               | 1,128          | 29.62        | 2,680          | 70.38        |
| Iceland.....               | 6,057               | 4,013          | 66.25        | 2,044          | 33.75        | 7,109               | 5,864          | 82.49        | 1,245          | 17.51        |
| Italy.....                 | 6,854               | 1,692          | 24.69        | 5,162          | 75.31        | 34,739              | 6,900          | 19.86        | 27,839         | 80.14        |
| Japan.....                 | 4,674               | 1,062          | 22.72        | 3,612          | 77.28        | 8,425               | 1,898          | 22.53        | 6,527          | 77.47        |
| Norway and Sweden.....     | 10,256              | 6,094          | 59.42        | 4,162          | 40.58        | 49,194              | 21,891         | 44.50        | 27,303         | 55.50        |
| Roumania and Bulgaria..... | 1,066               | 378            | 35.46        | 688            | 64.54        | 9,657               | 3,755          | 38.88        | 5,902          | 61.12        |
| Russia.....                | 31,231              | 11,394         | 36.48        | 19,837         | 63.52        | 100,971             | 43,887         | 43.46        | 57,084         | 56.54        |
| Turkey and Syria.....      | 1,579               | 481            | 30.46        | 1,098          | 69.54        | 4,768               | 1,889          | 39.62        | 2,879          | 60.38        |
| United States.....         | 127,899             | 87,049         | 68.06        | 40,850         | 31.94        | 303,680             | 152,308        | 50.16        | 151,372        | 49.85        |
| Other countries.....       | 3,186               | 3,009          | 94.44        | 177            | 5.56         | 9,120               | 3,216          | 35.26        | 5,904          | 64.74        |
| <b>Totals.....</b>         | <b>278,419</b>      | <b>153,998</b> | <b>55.37</b> | <b>124,541</b> | <b>44.73</b> | <b>752,732</b>      | <b>341,557</b> | <b>45.77</b> | <b>408,175</b> | <b>54.23</b> |

| Continent<br>or<br>Country of Birth. | POST-WAR PERIOD.    |                |              |                |              |                     |                |              |                |              |
|--------------------------------------|---------------------|----------------|--------------|----------------|--------------|---------------------|----------------|--------------|----------------|--------------|
|                                      | 1921.               |                |              |                |              | 1931.               |                |              |                |              |
|                                      | Total Foreign Born. | Naturalized.   |              | Alien.         |              | Total Foreign Born. | Naturalized.   |              | Alien.         |              |
|                                      | No.                 | No.            | p.c.         | No.            | p.c.         | No.                 | No.            | p.c.         | No.            | p.c.         |
| Europe.....                          | 459,325             | 265,865        | 57.88        | 193,460        | 42.12        | 714,462             | 351,013        | 49.13        | 363,449        | 50.87        |
| Austria.....                         | 57,535              | 34,171         | 59.39        | 23,364         | 40.61        | 37,391              | 22,409         | 59.93        | 14,982         | 40.07        |
| Belgium.....                         | 13,276              | 5,586          | 42.08        | 7,690          | 57.92        | 17,033              | 8,465          | 49.70        | 8,568          | 50.30        |
| Bulgaria.....                        | 1,005               | 225            | 22.39        | 780            | 77.61        | 1,487               | 699            | 47.65        | 788            | 52.35        |
| Czechoslovakia.....                  | 4,322               | 2,408          | 55.71        | 1,914          | 44.29        | 22,835              | 4,566          | 20.00        | 18,269         | 80.00        |
| Denmark.....                         | 7,192               | 4,052          | 56.34        | 3,140          | 43.66        | 17,217              | 5,374          | 31.21        | 11,843         | 68.79        |
| Finland.....                         | 12,156              | 5,553          | 45.72        | 6,598          | 54.28        | 30,354              | 8,695          | 28.65        | 21,659         | 71.35        |
| France.....                          | 19,247              | 10,615         | 55.15        | 8,632          | 44.85        | 16,756              | 11,082         | 66.14        | 5,674          | 33.86        |
| Germany.....                         | 25,266              | 16,649         | 65.89        | 8,617          | 34.11        | 39,163              | 18,437         | 47.08        | 20,726         | 52.92        |
| Greece.....                          | 3,769               | 1,105          | 29.32        | 2,664          | 70.68        | 5,579               | 3,500          | 62.74        | 2,079          | 37.26        |
| Holland.....                         | 5,827               | 2,820          | 48.40        | 3,007          | 51.60        | 10,736              | 3,957          | 36.86        | 6,779          | 63.14        |
| Hungary.....                         | 7,493               | 5,419          | 72.32        | 2,074          | 27.68        | 28,523              | 6,393          | 22.41        | 22,130         | 77.59        |
| Iceland.....                         | 6,776               | 5,852          | 86.36        | 924            | 13.64        | 5,731               | 5,221          | 91.10        | 510            | 8.90         |
| Italy.....                           | 35,551              | 10,739         | 30.22        | 24,792         | 69.78        | 42,578              | 26,744         | 62.81        | 15,834         | 37.19        |
| Norway.....                          | 23,127              | 16,570         | 71.65        | 6,557          | 28.35        | 32,679              | 18,466         | 56.51        | 14,213         | 43.49        |
| Poland.....                          | 65,304              | 38,461         | 58.90        | 26,843         | 41.10        | 171,169             | 80,235         | 46.87        | 90,934         | 53.13        |
| Roumania.....                        | 22,779              | 13,785         | 60.52        | 8,994          | 39.48        | 40,322              | 23,311         | 57.81        | 17,011         | 42.19        |
| Russia.....                          | 101,055             | 63,058         | 62.40        | 37,997         | 37.60        | 114,406             | 67,521         | 59.02        | 46,885         | 40.98        |
| Sweden.....                          | 27,700              | 18,679         | 67.43        | 9,021          | 32.57        | 34,415              | 20,565         | 59.76        | 13,850         | 40.24        |
| Switzerland.....                     | 3,479               | 1,876          | 53.92        | 1,603          | 46.08        | 6,076               | 2,513          | 41.36        | 3,563          | 58.64        |
| Ukraine.....                         | 11,357              | 6,216          | 54.73        | 5,141          | 45.27        | 13,759              | 6,145          | 44.66        | 7,614          | 55.34        |
| Yugoslavia.....                      | 1,946               | 655            | 33.66        | 1,291          | 66.34        | 17,110              | 3,370          | 19.70        | 13,740         | 80.30        |
| Other.....                           | 8,183               | 1,368          | 16.60        | 6,815          | 83.40        | 9,163               | 3,345          | 36.51        | 5,818          | 63.49        |
| Asia.....                            | 53,636              | 8,509          | 15.86        | 45,127         | 84.14        | 60,608              | 12,119         | 20.00        | 48,489         | 80.00        |
| China.....                           | 36,924              | 1,766          | 4.78         | 35,158         | 95.22        | 42,037              | 2,946          | 7.01         | 39,091         | 92.99        |
| Japan.....                           | 11,650              | 3,902          | 33.49        | 7,748          | 66.51        | 12,261              | 4,576          | 37.32        | 7,685          | 62.68        |
| Syria.....                           | 3,879               | 2,265          | 58.39        | 1,614          | 41.61        | 3,953               | 2,928          | 74.07        | 1,025          | 25.93        |
| Turkey.....                          | 401                 | 187            | 46.63        | 214            | 53.37        | 921                 | 660            | 71.66        | 261            | 28.34        |
| Other.....                           | 782                 | 389            | 49.74        | 393            | 50.26        | 1,436               | 1,009          | 70.26        | 427            | 29.74        |
| United States.....                   | 374,022             | 237,993        | 63.63        | 136,029        | 36.37        | 344,674             | 249,595        | 72.44        | 94,979         | 27.56        |
| Other countries.....                 | 3,294               | 1,812          | 55.01        | 1,482          | 44.99        | 3,051               | 2,244          | 73.55        | 807            | 26.45        |
| <b>Totals.....</b>                   | <b>890,277</b>      | <b>514,179</b> | <b>57.75</b> | <b>376,098</b> | <b>42.25</b> | <b>1,122,695</b>    | <b>614,971</b> | <b>54.78</b> | <b>507,724</b> | <b>45.22</b> |



## Section 9.—Language Spoken and Mother Tongue.

**Official Languages.**—In the Census of 1931 1,322,370 persons were reported as speaking both the official languages of Canada, 6,999,913 speaking English, 1,779,338 speaking French and 275,165 as unable to speak either English or French. In Table 35 the population is classified by racial origin and as able to speak one, both or neither of the official languages. (Children under 5 years of age are classed as speaking the language of the home.)

**Mother Tongue.**—By mother tongue is meant the language learned in childhood and still spoken by the individual. In the case of foreign-born persons it is the native language or the language spoken before coming to Canada. Table 36 giving the mother tongue by provinces shows that 1,630,086 persons did not have either English or French as a mother tongue. The largest number speaking a foreign language as a mother tongue is in Ontario with 398,476 but the largest percentage is in Saskatchewan with 39 p.c.

### 35.—Population of Canada Speaking One, Both or Neither of the Official Languages of Canada, Classified by Racial Origin, 1931.

NOTE.—Children under 5 years of age have been classed as speaking the language of the home.

| Origin.                | Total Population. | Language Spoken. |                  |                     |                             |
|------------------------|-------------------|------------------|------------------|---------------------|-----------------------------|
|                        |                   | English.         | French.          | English and French. | Neither English nor French. |
| British Races.....     | 5,381,071         | 5,173,483        | 16,964           | 189,516             | 1,108                       |
| English.....           | 2,741,419         | 2,642,995        | 6,802            | 91,298              | 324                         |
| Irish.....             | 1,230,808         | 1,165,003        | 5,651            | 60,030              | 124                         |
| Scottish.....          | 1,346,350         | 1,304,403        | 4,458            | 36,848              | 641                         |
| Other.....             | 62,494            | 61,082           | 53               | 1,340               | 19                          |
| European Races.....    | 4,753,242         | 1,675,737        | 1,757,851        | 1,122,566           | 197,088                     |
| French.....            | 2,927,990         | 136,249          | 1,745,975        | 1,044,388           | 1,378                       |
| Austrian, n.e.s.....   | 48,639            | 41,413           | 144              | 987                 | 6,095                       |
| Belgian.....           | 27,585            | 12,895           | 2,523            | 11,213              | 954                         |
| Czech and Slovak.....  | 30,401            | 24,454           | 65               | 394                 | 5,488                       |
| Danish.....            | 34,118            | 32,183           | 43               | 805                 | 1,087                       |
| Dutch.....             | 148,962           | 134,801          | 58               | 1,999               | 12,104                      |
| Finnish.....           | 43,885            | 34,601           | 22               | 343                 | 8,919                       |
| German.....            | 473,544           | 436,601          | 1,378            | 9,220               | 26,345                      |
| Hebrew.....            | 156,726           | 126,399          | 177              | 21,861              | 8,289                       |
| Hungarian.....         | 40,582            | 31,239           | 55               | 564                 | 8,724                       |
| Icelandic.....         | 19,382            | 18,217           | 4                | 103                 | 1,058                       |
| Italian.....           | 98,173            | 66,810           | 5,902            | 16,822              | 8,639                       |
| Norwegian.....         | 93,243            | 89,472           | 153              | 910                 | 2,708                       |
| Polish.....            | 145,503           | 114,668          | 401              | 3,513               | 26,921                      |
| Roumanian.....         | 29,056            | 23,490           | 125              | 1,261               | 4,180                       |
| Russian.....           | 88,148            | 69,355           | 169              | 1,734               | 16,910                      |
| Swedish.....           | 81,306            | 77,956           | 61               | 868                 | 2,321                       |
| Ukrainian.....         | 225,113           | 173,427          | 99               | 2,011               | 49,576                      |
| Yugoslavia.....        | 16,174            | 13,178           | 23               | 178                 | 2,795                       |
| Other.....             | 24,712            | 18,349           | 474              | 3,292               | 2,597                       |
| Asiatic Races.....     | 84,548            | 57,648           | 916              | 3,984               | 22,000                      |
| Chinese.....           | 46,519            | 32,190           | 46               | 443                 | 13,840                      |
| Japanese.....          | 23,342            | 16,281           | 1                | 112                 | 6,948                       |
| Syrian.....            | 10,753            | 6,415            | 740              | 3,101               | 497                         |
| Other.....             | 3,934             | 2,762            | 129              | 328                 | 715                         |
| Indian and Eskimo..... | 128,890           | 65,855           | 2,612            | 5,553               | 54,870                      |
| Various.....           | 20,137            | 19,411           | 83               | 593                 | 50                          |
| Unspecified.....       | 8,898             | 7,779            | 912              | 158                 | 49                          |
| <b>Canada.....</b>     | <b>10,376,786</b> | <b>6,999,913</b> | <b>1,779,338</b> | <b>1,322,370</b>    | <b>275,165</b>              |

## 36.—Mother Tongues of the Total Population of Canada, by Provinces, 1931.

NOTE.—Children under 5 years of age have been classed as speaking the language of the home.

| Mother Tongue.             | Canada. <sup>1</sup> | Prince Edward Island. | Nova Scotia.   | New Brunswick. | Quebec.          | Ontario.         | Manitoba.      | Saskatchewan.  | Alberta.       | British Columbia. |
|----------------------------|----------------------|-----------------------|----------------|----------------|------------------|------------------|----------------|----------------|----------------|-------------------|
| English.....               | 5,914,402            | 76,326                | 436,498        | 268,603        | 429,613          | 2,796,821        | 399,009        | 516,842        | 461,713        | 526,216           |
| Chinese.....               |                      |                       |                |                |                  |                  |                |                |                |                   |
| Japanese....               | 69,281               | 31                    | 322            | 219            | 2,743            | 6,960            | 1,730          | 3,570          | 4,463          | 49,189            |
| Finnish.....               | 39,965               | 1                     | 62             | 104            | 2,801            | 26,110           | 885            | 1,861          | 2,973          | 5,146             |
| <i>Germanic</i>            |                      |                       |                |                |                  |                  |                |                |                |                   |
| <i>Group</i> .....         | 406,591              | 43                    | 1,394          | 437            | 9,443            | 93,854           | 67,925         | 150,674        | 68,792         | 14,520            |
| Dutch.....                 | 26,532               | 20                    | 65             | 78             | 504              | 4,598            | 5,546          | 10,079         | 3,956          | 1,673             |
| Flemish....                | 18,048               | —                     | 340            | 116            | 1,644            | 6,567            | 5,067          | 2,096          | 1,426          | 781               |
| German....                 | 362,011              | 23                    | 989            | 243            | 7,295            | 82,089           | 57,312         | 138,499        | 63,410         | 12,066            |
| <i>Latin and</i>           |                      |                       |                |                |                  |                  |                |                |                |                   |
| <i>Greek Group</i>         | 2,944,751            | 10,149                | 40,638         | 133,654        | 2,318,866        | 290,347          | 45,924         | 49,550         | 55,114         | 20,004            |
| French.....                | 2,832,298            | 10,137                | 39,018         | 133,385        | 2,292,193        | 236,336          | 42,499         | 42,283         | 28,145         | 7,768             |
| Greek.....                 | 7,346                | 1                     | 166            | 55             | 2,137            | 3,287            | 230            | 370            | 384            | 713               |
| Italian.....               | 85,520               | 11                    | 1,320          | 182            | 21,972           | 44,715           | 1,934          | 692            | 4,028          | 10,645            |
| Roumanian..                | 18,115               | —                     | 95             | 16             | 2,139            | 5,469            | 1,181          | 6,170          | 2,477          | 568               |
| Spanish.....               | 1,472                | —                     | 39             | 16             | 415              | 490              | 80             | 35             | 80             | 310               |
| Magyar.....                | 37,959               | 4                     | 521            | 54             | 3,894            | 13,525           | 1,038          | 11,853         | 5,386          | 1,079             |
| <i>Scandinavian</i>        |                      |                       |                |                |                  |                  |                |                |                |                   |
| <i>Group</i> .....         | 159,854              | 101                   | 670            | 1,397          | 3,150            | 14,194           | 24,481         | 50,634         | 38,838         | 26,102            |
| Swedish....                | 58,242               | 5                     | 161            | 142            | 1,078            | 7,821            | 7,088          | 15,556         | 12,951         | 13,304            |
| Norwegian..                | 64,125               | 4                     | 123            | 168            | 784              | 3,239            | 3,628          | 27,996         | 18,229         | 9,846             |
| Danish.....                | 21,453               | 92                    | 381            | 1,087          | 1,281            | 2,932            | 2,187          | 3,882          | 7,122          | 2,447             |
| Icelandic...<br>n.e.s..... | 16,034               | —                     | 5              | —              | 7                | 202              | 11,578         | 3,200          | 536            | 505               |
| <i>Slavic Group.</i>       | 479,203              | 3                     | 3,462          | 314            | 26,501           | 99,065           | 121,810        | 113,835        | 91,826         | 22,314            |
| Austrian.....              |                      |                       |                |                |                  |                  |                |                |                |                   |
| n.e.s.....                 | 6,842                | —                     | 52             | 19             | 437              | 2,046            | 907            | 1,510          | 1,001          | 866               |
| Bohemian..                 | 6,414                | —                     | 178            | 2              | 143              | 1,297            | 961            | 2,150          | 1,089          | 594               |
| Bulgarian..                | 2,661                | —                     | 34             | 17             | 142              | 2,235            | 12             | 76             | 87             | 56                |
| Lithuanian..               | 5,506                | —                     | 177            | 3              | 2,274            | 1,404            | 343            | 459            | 620            | 225               |
| Polish.....                | 118,599              | —                     | 1,370          | 101            | 9,083            | 38,388           | 31,758         | 18,742         | 15,747         | 3,397             |
| Russian....                | 50,759               | 1                     | 355            | 127            | 3,831            | 9,197            | 3,746          | 17,085         | 7,344          | 9,052             |
| Serbo-Croatian..           | 10,521               | —                     | 154            | 1              | 925              | 5,647            | 147            | 956            | 625            | 2,052             |
| Slovak.....                | 25,099               | 2                     | 339            | 12             | 4,784            | 8,676            | 1,028          | 2,312          | 5,047          | 2,884             |
| Ukrainian..                | 252,802              | —                     | 803            | 32             | 4,882            | 30,175           | 82,908         | 70,545         | 60,266         | 3,188             |
| <i>Syrian and</i>          |                      |                       |                |                |                  |                  |                |                |                |                   |
| Arabic.....                | 9,226                | 83                    | 847            | 502            | 3,483            | 3,026            | 320            | 571            | 211            | 175               |
| Yiddish.....               | 149,520              | 16                    | 1,635          | 1,095          | 59,468           | 56,853           | 19,187         | 5,011          | 3,624          | 2,627             |
| Various.....               | 166,034              | 1,281                 | 26,797         | 1,840          | 14,303           | 31,528           | 17,230         | 17,384         | 18,665         | 26,891            |
| <b>Totals...</b>           | <b>10,376,786</b>    | <b>88,038</b>         | <b>512,846</b> | <b>408,219</b> | <b>2,874,255</b> | <b>3,431,683</b> | <b>700,139</b> | <b>921,785</b> | <b>731,695</b> | <b>694,263</b>    |

<sup>1</sup> Including Yukon and Northwest Territories.

## Section 10.—Rural and Urban Population.

For the purposes of the census the population residing in cities, towns and incorporated villages has been defined as urban, and that outside of such localities as rural. Thus the distinction here made between 'rural' and 'urban' population is a distinction of provincial legal status rather than of size of aggregations of population within limited areas. Since the laws of the various provinces differ in regard to the population necessary before a municipality may be incorporated as urban (the laws of Saskatchewan, for example, making provision that 50 people actually resident on an area not greater than 640 acres may claim incorporation as a village, while the Ontario law now requires that villages asking for incorporation shall have a population of 750 on an area not exceeding 500 acres), the line of demarcation between rural and urban population is not at all uniformly drawn throughout the Dominion, as far as comparable aggregations of population are concerned.

In order to have closer comparison between provinces, Table 37 divides the incorporated urban centres into two groups, *viz.*, under one thousand, and one thousand and over. The population in urban places having less than one thousand has decreased for the whole of Canada but increased in Prince Edward Island, Nova Scotia and British Columbia. The largest numerical increase in urban centres of 1,000 and over was in the province of Quebec with 480,000, but the largest percentage increase was in British Columbia with 59.13 p.c.

In Tables 38 and 39 are given statistics showing the growth of rural and urban population respectively, by provinces, since 1891. To a limited extent, however, Table 40 will permit the student of population statistics to make, at least for Canada as a whole, his own line of demarcation between rural and urban populations.\*

\*In the United States, urban population, prior to 1930, was classified by the Census Bureau as that residing in cities and other incorporated places having 2,500 inhabitants or more with certain minor qualifications, but in 1930 the definition was slightly modified to include townships and other political divisions, not incorporated as municipalities, having a total population of 10,000 or more each, and a population density of 1,000 or more per square mile. The direct result of this modification has been to slightly increase the proportion of urban population.

### 37.—Rural and Urban Populations, by Sex and by Provinces, 1921 and 1931.

| Province.<br>or<br>Territory  | 1921.            |                  |                  |                       |                  |                                                                  |                |                                                    |                  |
|-------------------------------|------------------|------------------|------------------|-----------------------|------------------|------------------------------------------------------------------|----------------|----------------------------------------------------|------------------|
|                               | Totals.          |                  |                  | Rural<br>Populations. |                  | Urban Populations.                                               |                |                                                    |                  |
|                               |                  |                  |                  |                       |                  | Incorporated<br>Centres having<br>Less than<br>1,000 Population. |                | Centres<br>having 1,000<br>Population<br>and Over. |                  |
|                               | Both<br>Sexes.   | Male.            | Female.          | Male.                 | Female.          | Male.                                                            | Female.        | Male.                                              | Female.          |
| P. E. Island.....             | 88,615           | 44,887           | 43,728           | 35,919                | 33,603           | 1,167                                                            | 1,257          | 7,801                                              | 8,868            |
| Nova Scotia.....              | 523,837          | 266,472          | 257,365          | 154,223               | 142,576          | 3,642                                                            | 3,744          | 108,607                                            | 111,045          |
| New Brunswick....             | 387,876          | 197,351          | 190,525          | 137,577               | 125,855          | 2,070                                                            | 2,182          | 57,704                                             | 62,488           |
| Quebec.....                   | 2,360,665        | 1,179,726        | 1,180,939        | 537,763               | 500,333          | 57,652                                                           | 61,219         | 584,311                                            | 619,387          |
| Ontario.....                  | 2,933,662        | 1,481,890        | 1,451,772        | 650,379               | 576,651          | 36,836                                                           | 38,996         | 794,675                                            | 836,125          |
| Manitoba.....                 | 610,118          | 320,567          | 289,551          | 189,038               | 159,464          | 11,116                                                           | 11,279         | 120,413                                            | 118,808          |
| Saskatchewan.....             | 757,510          | 413,700          | 343,810          | 300,385               | 238,167          | 47,849                                                           | 43,487         | 65,466                                             | 62,156           |
| Alberta.....                  | 588,454          | 324,208          | 264,246          | 209,334               | 156,216          | 24,490                                                           | 21,244         | 90,384                                             | 86,786           |
| British Columbia..            | 524,582          | 293,409          | 231,173          | 161,138               | 115,882          | 3,017                                                            | 2,505          | 129,254                                            | 112,786          |
| Yukon.....                    | 4,157            | 2,819            | 1,338            | 1,956                 | 895              | 863                                                              | 443            | -                                                  | -                |
| Northwest<br>Territories..... | 7,988            | 4,129            | 3,859            | 4,129                 | 3,859            | -                                                                | -              | -                                                  | -                |
| Royal Canadian<br>Navy.....   | 485              | 485              | -                | 485                   | -                | -                                                                | -              | -                                                  | -                |
| <b>Canada.....</b>            | <b>8,787,949</b> | <b>4,529,643</b> | <b>4,258,306</b> | <b>2,382,326</b>      | <b>2,053,501</b> | <b>188,702</b>                                                   | <b>186,356</b> | <b>1,958,615</b>                                   | <b>2,018,449</b> |

| Province.<br>or<br>Territory  | 1931.             |                  |                  |                       |                  |                                                                  |                |                                                    |                  |
|-------------------------------|-------------------|------------------|------------------|-----------------------|------------------|------------------------------------------------------------------|----------------|----------------------------------------------------|------------------|
|                               | Totals.           |                  |                  | Rural<br>Populations. |                  | Urban Populations.                                               |                |                                                    |                  |
|                               |                   |                  |                  |                       |                  | Incorporated<br>Centres having<br>Less than<br>1,000 Population. |                | Centres<br>having 1,000<br>Population<br>and Over. |                  |
|                               | Both<br>Sexes.    | Male.            | Female.          | Male.                 | Female.          | Male.                                                            | Female.        | Male.                                              | Female.          |
| P. E. Island.....             | 88,038            | 45,392           | 42,646           | 35,633                | 32,020           | 1,620                                                            | 1,582          | 8,139                                              | 9,044            |
| Nova Scotia.....              | 512,846           | 263,104          | 249,742          | 148,335               | 132,857          | 4,184                                                            | 4,255          | 110,585                                            | 112,630          |
| New Brunswick....             | 408,219           | 208,620          | 199,599          | 146,866               | 132,413          | 1,010                                                            | 1,149          | 60,744                                             | 66,037           |
| Quebec.....                   | 2,874,255         | 1,447,124        | 1,427,131        | 555,490               | 505,159          | 63,441                                                           | 66,765         | 828,193                                            | 855,207          |
| Ontario.....                  | 3,431,683         | 1,748,844        | 1,682,839        | 719,975               | 615,716          | 39,307                                                           | 41,020         | 989,562                                            | 1,026,103        |
| Manitoba.....                 | 700,139           | 368,065          | 332,074          | 209,099               | 175,071          | 10,691                                                           | 10,787         | 148,275                                            | 146,216          |
| Saskatchewan.....             | 921,785           | 499,935          | 421,850          | 350,365               | 280,515          | 53,886                                                           | 49,898         | 95,684                                             | 91,437           |
| Alberta.....                  | 731,605           | 400,199          | 331,406          | 256,687               | 196,410          | 26,745                                                           | 23,881         | 116,767                                            | 111,115          |
| British Columbia..            | 694,263           | 385,219          | 309,044          | 173,365               | 126,159          | 5,329                                                            | 4,247          | 206,525                                            | 178,638          |
| Yukon.....                    | 4,230             | 2,825            | 1,405            | 1,883                 | 987              | 942                                                              | 418            | -                                                  | -                |
| Northwest<br>Territories..... | 9,723             | 5,214            | 4,509            | 5,214                 | 4,509            | -                                                                | -              | -                                                  | -                |
| <b>Canada.....</b>            | <b>10,376,786</b> | <b>5,374,541</b> | <b>5,002,245</b> | <b>2,602,912</b>      | <b>2,201,816</b> | <b>207,155</b>                                                   | <b>204,002</b> | <b>2,564,474</b>                                   | <b>2,596,427</b> |

While a summary comparison between urbanization in Canada in 1931 and in the United States in 1930 would lead us to the conclusion that our country, though far less densely peopled than the United States, had an almost equally large percentage of its population in urban communities, *viz.*, 53.70 p.c. in Canada as compared with 56.2 p.c. in the United States, the fact that in the United States inhabitants of places having under 2,500 population are included with rural population must be taken into account. A fairer basis of comparison is secured if the same population limits are taken for both countries, as may be done by using Table 40. Thus, at the Census of 1930, the United States had 29.5 p.c. of its population resident in cities of 100,000 and over, while Canada in 1931 had only 22.44 p.c. of its population in such places. The United States had an additional 18 p.c. of its population residing in cities of between 10,000 and 100,000 population, and 4.8 p.c. in cities and towns of 5,000 to 10,000, while Canada had in cities of these categories only 14.87 p.c., and 4.42 p.c. respectively of its population. Thus, taking all places of 5,000 and over—the lowest population for which comparative figures are readily available—52.3 p.c. of the population of the United States resided in such places as compared with 41.73 p.c. of the population of Canada, showing the much higher degree of urbanization which has been reached in the United States—a natural thing in an older settled and more densely peopled country.

On the basis of the census classification, it is apparent from Table 38 that in the last decade, as in the previous one, urban communities absorbed nearly 77 p.c. of the total increase in population, with the result that the urban population of Canada in 1931 exceeded the rural by 767,330. Out of every 1,000 persons in the country, 463 were resident, on June 1, 1931, in rural and 537 in urban communities, as compared with 505 in rural and 495 in urban communities on June 1, 1921; 546 in rural and 454 in urban communities in 1911; 625 in rural and 375 in urban communities in 1901; and 682 in rural and 318 in urban communities in 1891.

From Table 40, showing the distribution of urban population in Canada by size of cities and towns, it is seen that Canada possesses two cities of more than half a million population. These are Montreal and Toronto, with 818,577 and 631,207 inhabitants respectively. Two other cities, Vancouver and Winnipeg, have attained the 200,000 mark and Hamilton, Quebec and Ottawa each have populations of over 100,000. The two western cities of Calgary and Edmonton are now in the 75,000 to 100,000 class. In this respect London, which excelled Edmonton in 1921, now takes the next lower place with a population of 71,148. Details of the population of these and other smaller cities and towns of 5,000 and over, are given by censuses from 1871 to 1931 in Table 41, while the populations of urban communities having in 1931 a population of from 1,000 to 5,000 each, are given for 1901, 1911, 1921 and 1931 in Table 42.

All the larger cities have in their neighbourhoods growing "satellite" towns or other densely settled areas in close economic relationship with the central municipality. This phenomenon is to-day of increasing importance largely as a result of the greater ease and speed of transportation by motor vehicle. It has therefore been considered advisable to calculate the total populations resident in what the United States census authorities call the "metropolitan areas". On this basis the total populations of the larger cities at the Census of 1931 were as follows: "Greater Montreal", 1,000,157; "Greater Toronto", 808,864; "Greater Vancouver", 308,340; "Greater



Winnipeg", 280,202; "Greater Ottawa" (including Hull), 175,988; "Greater Quebec", 166,435; "Greater Hamilton", 163,710; "Greater Windsor", 110,385; "Greater Halifax", 74,161; and "Greater Saint John", 55,611.

**33.—Rural and Urban Populations, by Provinces and Territories, Decennial Censuses 1891-1931 and Numerical Increases 1921-1931.**

| Province or Territory.     | 1891.            |                  | 1901.                |                     | 1911.                  |                      |
|----------------------------|------------------|------------------|----------------------|---------------------|------------------------|----------------------|
|                            | Rural.           | Urban.           | Rural.               | Urban.              | Rural.                 | Urban.               |
| Prince Edward Island.....  | 94,823           | 14,255           | 88,304               | 14,955              | 78,758                 | 14,970               |
| Nova Scotia.....           | 373,403          | 76,993           | 330,191              | 129,383             | 306,210                | 186,128              |
| New Brunswick.....         | 272,362          | 48,901           | 253,835              | 77,285              | 252,342                | 99,547               |
| Quebec.....                | 988,820          | 499,715          | 994,833              | 654,065             | 1,038,934 <sup>6</sup> | 966,842 <sup>4</sup> |
| Ontario.....               | 1,295,323        | 818,998          | 1,246,969            | 935,978             | 1,198,803 <sup>5</sup> | 1,328,489            |
| Manitoba.....              | 111,498          | 41,008           | 184,775 <sup>3</sup> | 70,436 <sup>3</sup> | 261,029 <sup>4</sup>   | 200,365              |
| Saskatchewan.....          | 1                | —                | 77,013 <sup>7</sup>  | 14,266 <sup>7</sup> | 361,037 <sup>7</sup>   | 131,395 <sup>7</sup> |
| Alberta.....               | 1                | —                | 54,489               | 18,533              | 236,633 <sup>2</sup>   | 137,662 <sup>2</sup> |
| British Columbia.....      | 60,945           | 37,228           | 88,478               | 90,179              | 188,796                | 203,684              |
| Yukon.....                 | 1                | —                | 18,077               | 9,142               | 4,647                  | 3,865                |
| Northwest Territories..... | 1                | —                | 20,129               | —                   | 6,507 <sup>3</sup>     | —                    |
| Royal Canadian Navy.....   | —                | —                | —                    | —                   | —                      | —                    |
| <b>Canada.....</b>         | <b>3,296,141</b> | <b>1,537,098</b> | <b>3,357,093</b>     | <b>2,014,222</b>    | <b>3,933,696</b>       | <b>3,272,947</b>     |

| Province or Territory.     | 1921.            |                  | 1931.            |                       | Numerical Increases in Decade 1921-31. |                  |
|----------------------------|------------------|------------------|------------------|-----------------------|----------------------------------------|------------------|
|                            | Rural.           | Urban.           | Rural.           | Urban.                | Rural.                                 | Urban.           |
| Prince Edward Island.....  | 69,522           | 19,093           | 67,653           | 20,385                | -1,869                                 | 1,292            |
| Nova Scotia.....           | 296,799          | 227,038          | 281,192          | 231,654               | -15,607                                | 4,616            |
| New Brunswick.....         | 263,432          | 124,444          | 279,279          | 128,940               | 15,847                                 | 4,496            |
| Quebec.....                | 1,038,096        | 1,322,569        | 1,060,649        | 1,813,606             | 22,553                                 | 491,037          |
| Ontario.....               | 1,227,030        | 1,706,632        | 1,335,691        | 2,095,992             | 108,661                                | 389,360          |
| Manitoba.....              | 348,502          | 261,616          | 384,170          | 315,969               | 35,668                                 | 54,353           |
| Saskatchewan.....          | 538,552          | 218,958          | 630,880          | 290,905               | 92,328                                 | 71,947           |
| Alberta.....               | 365,550          | 222,904          | 453,097          | 278,508               | 87,547                                 | 55,604           |
| British Columbia.....      | 277,020          | 247,562          | 299,524          | 394,739 <sup>10</sup> | 22,504                                 | 147,177          |
| Yukon.....                 | 2,851            | 1,306            | 2,870            | 1,360                 | 19                                     | 54               |
| Northwest Territories..... | 7,988            | —                | 9,723            | —                     | 1,735                                  | —                |
| Royal Canadian Navy.....   | 485              | —                | —                | —                     | —                                      | —                |
| <b>Canada.....</b>         | <b>4,435,827</b> | <b>4,352,122</b> | <b>4,804,723</b> | <b>5,572,058</b>      | <b>368,901</b>                         | <b>1,219,936</b> |

<sup>1</sup>The population (98,967) in territory now comprised in the provinces of Alberta, Saskatchewan and in Yukon and the Northwest Territories was classified as rural in the Census of 1891. <sup>2</sup>Vol. 1, Census 1911, places the urban population of Alberta for that year at 141,937. Included in this figure was the population (5,250) of twelve places which, according to the Report of the Municipal Commissioner for Alberta, were not then incorporated. The places so included were Aetna, Bankhead, Bellevue, Bickerdike, Canmore, Cardiff, Exshaw, Hillcrest, Passburg, Queenston and Elmpark. The correction resulting from this and from other small adjustments consequent upon more definite knowledge as to incorporated areas, places the urban population for 1911 at 137,662. Similar corrections have been made in the urban and rural figures for the Census of 1901. <sup>3</sup>As corrected in Census Report, Prairie Provinces, 1916. <sup>4</sup>As changed by Extension of Boundaries Act, 1912. <sup>5</sup>As changed by Extension of Boundaries Act, 1912. <sup>6</sup>The urban population of 970,791, shown in Volume 1, Census 1911, is reduced to 966,842 by the transfer of the populations of Maniwaki, Martinville, Moisie, St. Bruno, St. Martin and St. Vincent de Paul from urban to rural; by adjustments in area of the villages of St. Anne and Ste. Geneviève; and Extension of Boundaries Act, 1912. <sup>7</sup>Urban and rural populations for 1911 and 1901 are as corrected in Census Report, Prairie Provinces, 1916. <sup>8</sup>As reduced by Extension of Boundaries Act, 1912. <sup>9</sup>Members of the Royal Canadian Navy were counted at their homes in the Census of 1931. <sup>10</sup>This includes South Vancouver and Point Grey, with 1921 populations of 32,267 and 13,736 respectively, which were then classified as "rural".

### 39.—Percentage Distribution of Rural and Urban Populations, by Provinces and Territories, 1891, 1901, 1911, 1921 and 1931.

NOTE.—In using this table, reference should be made to the notes appended to Table 38 showing rural and urban population by numbers.

| Province or Territory.     | 1891.        |              | 1901.        |              | 1911.        |              |
|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                            | Rural.       | Urban.       | Rural.       | Urban.       | Rural.       | Urban.       |
| Prince Edward Island.....  | 86-93        | 13-07        | 85-52        | 14-48        | 84-03        | 15-97        |
| Nova Scotia.....           | 82-91        | 17-09        | 71-85        | 28-15        | 62-20        | 37-80        |
| New Brunswick.....         | 84-78        | 15-22        | 76-68        | 23-34        | 71-71        | 28-29        |
| Quebec.....                | 66-43        | 33-57        | 60-33        | 39-67        | 51-80        | 48-20        |
| Ontario.....               | 61-26        | 38-74        | 57-12        | 42-88        | 47-43        | 52-57        |
| Manitoba.....              | 73-11        | 26-89        | 72-40        | 27-60        | 56-57        | 43-43        |
| Saskatchewan.....          | 1            | —            | 84-37        | 15-63        | 73-32        | 26-68        |
| Alberta.....               | 1            | —            | 74-62        | 25-38        | 63-22        | 36-78        |
| British Columbia.....      | 62-08        | 37-92        | 49-52        | 50-48        | 48-10        | 51-90        |
| Yukon.....                 | 1            | —            | 66-41        | 33-59        | 54-59        | 45-41        |
| Northwest Territories..... | 1            | —            | 100-00       | —            | 100-00       | —            |
| Royal Canadian Navy.....   | —            | —            | —            | —            | —            | —            |
| <b>Canada.....</b>         | <b>68-20</b> | <b>31-80</b> | <b>62-50</b> | <b>37-50</b> | <b>54-58</b> | <b>45-42</b> |

| Province or Territory.     | 1921.        |              | 1931.        |                    |
|----------------------------|--------------|--------------|--------------|--------------------|
|                            | Rural.       | Urban.       | Rural.       | Urban.             |
| Prince Edward Island.....  | 78-45        | 21-55        | 76-85        | 23-15              |
| Nova Scotia.....           | 56-66        | 43-34        | 54-83        | 45-17              |
| New Brunswick.....         | 67-92        | 32-08        | 68-41        | 31-59              |
| Quebec.....                | 43-97        | 56-03        | 36-90        | 63-10              |
| Ontario.....               | 41-83        | 58-17        | 38-92        | 61-08              |
| Manitoba.....              | 57-12        | 42-88        | 54-87        | 45-13              |
| Saskatchewan.....          | 71-10        | 28-90        | 68-44        | 31-56              |
| Alberta.....               | 62-12        | 37-88        | 61-93        | 38-07              |
| British Columbia.....      | 52-81        | 47-19        | 43-14        | 56-86 <sup>2</sup> |
| Yukon.....                 | 68-58        | 31-42        | 67-85        | 32-15              |
| Northwest Territories..... | 100-00       | —            | 100-00       | —                  |
| Royal Canadian Navy.....   | 100-00       | —            | —            | —                  |
| <b>Canada.....</b>         | <b>50-48</b> | <b>49-52</b> | <b>46-30</b> | <b>53-70</b>       |

<sup>1</sup>The population in the territory now comprised in Alberta, Saskatchewan, Yukon and the Northwest Territories was classified as rural in the Census of 1891.

<sup>2</sup>South Vancouver and Point Grey, with populations in 1921 of 32,267 and 13,736 respectively, were then 'rural', but were 'urban' in 1931.

### 40.—Urban Populations of Canada, Divided by Size of Municipality Groups, 1911, 1921 and 1931.

| In Cities, Towns or Villages of— | 1911.             |                  |                        | 1921.             |                  |                        | 1931.             |                  |                        |
|----------------------------------|-------------------|------------------|------------------------|-------------------|------------------|------------------------|-------------------|------------------|------------------------|
|                                  | Number of Places. | Population.      | Per cent of Total Pop. | Number of Places. | Population.      | Per cent of Total Pop. | Number of Places. | Population.      | Per cent of Total Pop. |
| Over 500,000.....                | —                 | —                | —                      | 2                 | 1,140,399        | 12-98                  | 2                 | 1,449,784        | 13-97                  |
| Between—                         |                   |                  |                        |                   |                  |                        |                   |                  |                        |
| 400,000 and 500,000              | 1                 | 490,504          | 6-81                   | —                 | —                | —                      | —                 | —                | —                      |
| 300,000 and 400,000              | 1                 | 381,833          | 5-30                   | —                 | —                | —                      | —                 | —                | —                      |
| 200,000 and 300,000              | —                 | —                | —                      | —                 | —                | —                      | 2                 | 465,378          | 4-48                   |
| 100,000 and 200,000              | 2                 | 236,436          | 3-28                   | 4                 | 518,298          | 5-90                   | 3                 | 413,013          | 3-98                   |
| 50,000 and 100,000               | 3                 | 247,221          | 3-43                   | 5                 | 336,650          | 3-83                   | 7                 | 470,443          | 4-53                   |
| 25,000 and 50,000                | 7                 | 272,071          | 3-78                   | 7                 | 239,096          | 2-72                   | 10                | 339,521          | 3-27                   |
| 15,000 and 25,000                | 11                | 193,977          | 2-69                   | 19                | 370,990          | 4-22                   | 23                | 457,292          | 4-41                   |
| 10,000 and 15,000                | 18                | 225,423          | 3-13                   | 18                | 224,033          | 2-55                   | 23                | 275,944          | 2-66                   |
| 5,000 and 10,000                 | 44                | 313,100          | 4-34                   | 54                | 382,762          | 4-36                   | 68                | 458,784          | 4-42                   |
| 3,000 and 5,000                  | 59                | 222,274          | 3-08                   | 72                | 272,720          | 3-10                   | 71                | 273,276          | 2-63                   |
| 1,000 and 3,000                  | 250               | 428,250          | 5-94                   | 293               | 492,116          | 5-60                   | 324               | 557,466          | 5-37                   |
| 500 and 1,000                    | 241               | 174,781          | 2-43                   | 290               | 215,648          | 2-45                   | 322               | 231,375          | 2-23                   |
| Under 500.....                   | 419               | 87,077           | 1-21                   | 679               | 159,410          | 1-81                   | 750               | 179,782          | 1-73                   |
| <b>Totals.....</b>               | <b>1,056</b>      | <b>3,272,947</b> | <b>45-42</b>           | <b>1,443</b>      | <b>4,352,122</b> | <b>49-52</b>           | <b>1,605</b>      | <b>5,572,058</b> | <b>53-76</b>           |

Population is shown in Table 40 to be increasingly attracted to the larger cities. Thus, not only have cities of over 500,000 population (Montreal and Toronto) increased their proportions to the total, but cities of from 100,000 to 500,000 have increased their aggregate population from 5.90 p.c. of the total to 8.46 p.c., and cities of between 5,000 and 100,000 from 17.68 p.c. to 19.29 p.c. in the decade 1921-31. The classes below 5,000 show slight proportional reductions.

#### 41.—Populations of Cities and Towns having over 5,000 Inhabitants in 1931, Compared with 1871-81-91-1901-11-21.

NOTE.—The cities and towns in which a Board of Trade exists are indicated by an asterisk (\*), and those in which there is a Chamber of Commerce by a dagger (†). In all cases the populations for previous censuses have been rearranged as far as possible to cover the same area as in 1931.

| City or Town.          | Province.         | Populations. |         |         |         |         |         |         |
|------------------------|-------------------|--------------|---------|---------|---------|---------|---------|---------|
|                        |                   | 1871.        | 1881.   | 1891.   | 1901.   | 1911.   | 1921.   | 1931.   |
| *†Montreal.....        | Quebec.           | 130,833      | 177,377 | 256,723 | 328,172 | 490,504 | 618,506 | 818,577 |
| *Toronto.....          | Ontario.          | 59,000       | 96,196  | 181,215 | 209,892 | 381,833 | 521,893 | 631,207 |
| *Vancouver.....        | British Columbia. | —            | —       | 13,709  | 29,432  | 120,847 | 163,220 | 246,593 |
| *Winnipeg.....         | Manitoba.         | 241          | 7,985   | 25,639  | 42,340  | 136,035 | 179,087 | 218,785 |
| †Hamilton.....         | Ontario.          | 26,880       | 36,661  | 48,959  | 52,634  | 81,969  | 114,151 | 155,547 |
| Quebec.....            | Quebec.           | 59,699       | 62,446  | 63,090  | 68,840  | 78,710  | 95,193  | 130,594 |
| *Ottawa.....           | Ontario.          | 24,141       | 31,307  | 44,154  | 59,828  | 87,082  | 107,543 | 126,872 |
| *Calgary.....          | Alberta.          | —            | —       | 3,876   | 4,392   | 43,704  | 63,505  | 83,761  |
| †Edmonton.....         | Alberta.          | —            | —       | 4,176   | —       | 31,064  | 58,821  | 79,197  |
| †London.....           | Ontario.          | 18,030       | 27,867  | 31,977  | 37,876  | 46,300  | 60,959  | 71,148  |
| †Windsor.....          | Ontario.          | 4,253        | 6,561   | 10,322  | 12,153  | 17,829  | 38,591  | 63,108  |
| †Verdun.....           | Quebec.           | —            | 278     | 296     | 1,898   | 11,629  | 25,001  | 60,745  |
| *Halifax.....          | Nova Scotia.      | 29,582       | 36,100  | 38,437  | 40,832  | 46,619  | 58,372  | 59,275  |
| *Regina.....           | Saskatchewan.     | —            | —       | —       | 2,249   | 30,213  | 34,432  | 53,209  |
| *Saint John.....       | New Brunswick.    | 41,325       | 41,353  | 39,179  | 40,711  | 42,511  | 47,166  | 47,514  |
| *Saskatoon.....        | Saskatchewan.     | —            | —       | —       | 113     | 12,004  | 25,739  | 43,291  |
| †Victoria.....         | British Columbia. | 3,270        | 5,925   | 16,841  | 20,919  | 31,660  | 38,727  | 39,082  |
| †Three Rivers.....     | Quebec.           | 7,570        | 8,670   | 8,334   | 9,981   | 13,691  | 22,367  | 35,450  |
| *Kitchener.....        | Ontario.          | 2,743        | 4,054   | 7,425   | 9,747   | 15,196  | 21,763  | 30,793  |
| *Brantford.....        | Ontario.          | 8,107        | 9,616   | 12,753  | 16,619  | 23,132  | 29,440  | 30,107  |
| †Hull.....             | Quebec.           | 3,800        | 6,890   | 11,264  | 13,993  | 18,222  | 24,117  | 29,433  |
| †Sherbrooke.....       | Quebec.           | 4,432        | 7,227   | 10,097  | 11,765  | 16,405  | 23,515  | 28,933  |
| Outremont.....         | Quebec.           | —            | 387     | 795     | 1,148   | 4,820   | 13,249  | 28,641  |
| †Fort William.....     | Ontario.          | —            | 690     | 2,176   | 3,633   | 16,499  | 20,541  | 26,277  |
| *St. Catharines.....   | Ontario.          | 7,864        | 9,631   | 9,170   | 9,946   | 12,494  | 19,881  | 24,753  |
| Westmount.....         | Quebec.           | 200          | 884     | 3,076   | 8,856   | 14,579  | 17,593  | 24,235  |
| †Kingston.....         | Ontario.          | 12,407       | 14,091  | 19,263  | 17,961  | 18,874  | 21,753  | 23,439  |
| *Oshawa.....           | Ontario.          | 3,185        | 3,992   | 4,066   | 4,394   | 7,436   | 11,940  | 23,439  |
| *Sydney.....           | Nova Scotia.      | 1,700        | 2,180   | 2,427   | 9,900   | 17,723  | 22,545  | 23,089  |
| *Sault Ste. Marie..... | Ontario.          | 879          | 780     | 2,414   | 7,169   | 14,920  | 21,092  | 23,082  |
| †Peterborough.....     | Ontario.          | 4,611        | 6,812   | 9,717   | 12,886  | 18,360  | 20,994  | 22,327  |
| *Moose Jaw.....        | Saskatchewan.     | —            | —       | —       | 1,558   | 13,823  | 19,285  | 21,299  |
| *Guelph.....           | Ontario.          | 6,878        | 9,890   | 10,537  | 11,496  | 15,175  | 18,128  | 21,075  |
| *Gloucester.....       | Nova Scotia.      | —            | —       | 2,459   | 6,945   | 16,562  | 17,007  | 20,706  |
| *Moncton.....          | New Brunswick.    | 600          | 5,032   | 8,762   | 9,026   | 11,345  | 17,488  | 20,689  |
| †Port Arthur.....      | Ontario.          | —            | 1,275   | 2,698   | 3,214   | 11,220  | 14,886  | 19,818  |
| †Niagara Falls.....    | Ontario.          | 1,610        | 2,347   | 3,349   | 5,702   | 9,248   | 14,764  | 19,046  |
| †Lachine.....          | Quebec.           | 2,689        | 3,248   | 4,819   | 6,365   | 11,688  | 15,404  | 18,630  |
| *Sudbury.....          | Ontario.          | —            | —       | —       | 2,027   | 4,150   | 8,621   | 18,518  |
| †Sarnia.....           | Ontario.          | 2,929        | 3,874   | 6,692   | 8,176   | 9,947   | 14,877  | 18,191  |
| *Stratford.....        | Ontario.          | 4,313        | 8,239   | 9,500   | 9,959   | 12,946  | 16,094  | 17,742  |
| *New Westminster.....  | British Columbia. | —            | 1,500   | 6,678   | 6,499   | 13,199  | 14,495  | 17,524  |
| *Brandon.....          | Manitoba.         | —            | 3,778   | 5,620   | 13,839  | 15,397  | 17,082  | —       |
| *St. Boniface.....     | Manitoba.         | 817          | 1,283   | 1,553   | 2,019   | 7,483   | 12,821  | 16,305  |
| *North Bay.....        | Ontario.          | —            | 1,843   | 2,530   | 7,737   | 10,692  | 15,528  | —       |
| †St. Thomas.....       | Ontario.          | 2,197        | 8,367   | 10,366  | 11,485  | 14,054  | 16,026  | 15,430  |
| †Shawinigan Falls..... | Quebec.           | —            | —       | —       | —       | 4,265   | 10,625  | 15,345  |
| *Chatham.....          | Ontario.          | 5,873        | 7,873   | 9,052   | 9,068   | 10,770  | 13,256  | 14,569  |
| †East Windsor.....     | Ontario.          | —            | —       | —       | —       | —       | 5,870   | 14,251  |
| *Timmins.....          | Ontario.          | —            | —       | —       | —       | —       | 3,843   | 14,200  |
| *Galt.....             | Ontario.          | 3,827        | 5,187   | 7,535   | 7,866   | 10,299  | 13,216  | 14,006  |
| †Belleville.....       | Ontario.          | 7,305        | 9,516   | 9,916   | 9,117   | 9,876   | 12,206  | 13,790  |
| *Lethbridge.....       | Alberta.          | —            | —       | —       | 2,072   | 9,035   | 11,097  | 13,489  |
| †St. Hyacinthe.....    | Quebec.           | 3,746        | 5,321   | 7,016   | 9,210   | 9,797   | 10,859  | 13,448  |



**41.—Populations of Cities and Towns having over 5,000 Inhabitants in 1931, Compared with 1871-81-91-1901-11-21—continued.**

| City or Town.             | Province.                        | Populations. |        |        |        |        |        |        |
|---------------------------|----------------------------------|--------------|--------|--------|--------|--------|--------|--------|
|                           |                                  | 1871.        | 1881.  | 1891.  | 1901.  | 1911.  | 1921.  | 1931.  |
| *Owen Sound.....          | Ontario.....                     | 3,369        | 4,426  | 7,497  | 8,776  | 12,558 | 12,190 | 12,839 |
| *Charlottetown.....       | Prince Edward Island.....        | 7,872        | 10,345 | 10,095 | 10,718 | 9,883  | 10,814 | 12,361 |
| †Chicoutimi.....          | Quebec.....                      | 1,393        | 1,935  | 2,277  | 3,826  | 5,880  | 8,937  | 11,877 |
| †Lévis.....               | Quebec.....                      | 8,052        | 8,734  | 8,797  | 9,242  | 8,703  | 10,470 | 11,724 |
| *St. John's.....          | Newfoundland (Salaberry de)..... | 1,800        | 3,906  | 5,515  | 11,055 | 9,449  | 9,215  | 11,411 |
| *Woodstock.....           | Ontario.....                     | 3,982        | 5,373  | 8,612  | 8,833  | 9,320  | 9,935  | 11,395 |
| *St. Jean.....            | Quebec.....                      | 3,022        | 4,314  | 4,722  | 4,030  | 5,903  | 7,734  | 11,256 |
| *Cornwall.....            | Ontario.....                     | 2,033        | 4,468  | 6,805  | 6,704  | 6,598  | 7,419  | 11,126 |
| †Joliette.....            | Quebec.....                      | 3,047        | 3,268  | 3,372  | 4,220  | 6,346  | 9,039  | 10,765 |
| †Sandwich.....            | Ontario.....                     | 1,160        | 1,143  | 1,352  | 1,456  | 2,302  | 4,415  | 10,715 |
| *Welland.....             | Ontario.....                     | 1,110        | 1,870  | 2,035  | 1,893  | 5,318  | 8,654  | 10,709 |
| †Thetford Mines.....      | Quebec.....                      | —            | —      | —      | 3,256  | 7,261  | 8,272  | 10,701 |
| *Granby.....              | Quebec.....                      | 876          | 1,040  | 1,710  | 3,773  | 7,450  | 6,785  | 10,587 |
| †Sorel.....               | Quebec.....                      | 5,636        | 5,791  | 6,669  | 7,057  | 8,420  | 8,174  | 10,320 |
| †Medicine Hat.....        | Alberta.....                     | —            | —      | —      | 1,570  | 5,068  | 9,634  | 10,300 |
| †Walkerville.....         | Ontario.....                     | —            | —      | 933    | 1,595  | 3,302  | 7,059  | 10,105 |
| *Prince Albert.....       | Saskatchewan.....                | —            | —      | —      | 1,785  | 6,254  | 7,352  | 9,905  |
| †Brockville.....          | Ontario.....                     | 5,102        | 7,609  | 8,791  | 8,940  | 9,374  | 10,043 | 9,736  |
| †Jonquière.....           | Quebec.....                      | —            | —      | —      | —      | 2,354  | 4,551  | 9,448  |
| †Pembroke.....            | Ontario.....                     | 1,508        | 2,820  | 4,401  | 5,156  | 5,626  | 7,875  | 9,368  |
| *Dartmouth.....           | Nova Scotia.....                 | 2,191        | 3,786  | 6,252  | 4,806  | 5,058  | 7,899  | 9,100  |
| *St. Jérôme.....          | Quebec.....                      | 1,159        | 2,032  | 2,868  | 3,619  | 3,473  | 5,491  | 8,907  |
| *New Glasgow.....         | Nova Scotia.....                 | 1,676        | 2,595  | 3,776  | 4,447  | 6,383  | 8,974  | 8,858  |
| *Fredericton.....         | New Brunswick.....               | 6,006        | 6,218  | 6,502  | 7,117  | 7,208  | 8,114  | 8,830  |
| †Cap de la Madeleine..... | Quebec.....                      | —            | —      | —      | —      | —      | 6,738  | 8,748  |
| †North Vancouver.....     | British Columbia.....            | —            | —      | —      | 365    | 8,196  | 7,652  | 8,510  |
| †Rivière du Loup.....     | Quebec.....                      | 1,541        | 2,291  | 4,175  | 4,569  | 6,774  | 7,703  | 8,499  |
| †Orillia.....             | Ontario.....                     | 1,322        | 2,910  | 4,752  | 4,907  | 6,828  | 7,631  | 8,183  |
| *Waterloo.....            | Ontario.....                     | 1,594        | 2,066  | 2,941  | 3,587  | 4,359  | 5,883  | 8,095  |
| *Truro.....               | Nova Scotia.....                 | 2,114        | 3,461  | 5,102  | 5,993  | 6,107  | 7,562  | 7,901  |
| †La Tuque.....            | Quebec.....                      | —            | —      | —      | —      | 2,934  | 5,603  | 7,871  |
| *Barrie.....              | Ontario.....                     | 3,398        | 4,854  | 5,550  | 5,949  | 6,420  | 6,936  | 7,776  |
| *Sydney Mines.....        | Nova Scotia.....                 | 1,494        | 2,340  | 2,442  | 3,191  | 7,470  | 8,327  | 7,769  |
| *New Waterford.....       | Nova Scotia.....                 | —            | —      | —      | —      | —      | 5,615  | 7,745  |
| *Trail.....               | British Columbia.....            | —            | —      | —      | 1,360  | 1,460  | 3,020  | 7,573  |
| *Lindsay.....             | Ontario.....                     | 4,049        | 5,080  | 6,081  | 7,003  | 6,964  | 7,620  | 7,505  |
| *Amherst.....             | Nova Scotia.....                 | 1,839        | 2,274  | 3,781  | 4,964  | 8,973  | 9,998  | 7,450  |
| *New Toronto.....         | Ontario.....                     | —            | —      | —      | 209    | 686    | 2,669  | 7,146  |
| †Smiths Falls.....        | Ontario.....                     | 1,150        | 2,087  | 3,864  | 5,155  | 6,370  | 6,790  | 7,108  |
| †Launton.....             | Quebec.....                      | 2,827        | 4,573  | 4,391  | 4,267  | 4,982  | 6,428  | 7,054  |
| *Yarmouth.....            | Nova Scotia.....                 | 4,696        | 5,324  | 6,089  | 6,430  | 6,600  | 7,073  | 7,055  |
| †Midland.....             | Ontario.....                     | —            | 1,095  | 2,088  | 3,174  | 4,663  | 7,016  | 6,920  |
| †Mimico.....              | Ontario.....                     | —            | —      | —      | 437    | 1,373  | 3,751  | 6,800  |
| *Kenora.....              | Ontario.....                     | —            | —      | 1,806  | 5,202  | 6,158  | 5,407  | 6,766  |
| *Nanaimo.....             | British Columbia.....            | —            | 1,645  | 4,595  | 6,130  | 6,254  | 6,559  | 6,745  |
| †Eastview.....            | Ontario.....                     | —            | —      | —      | —      | 3,169  | 5,324  | 6,686  |
| †Drummondville.....       | Quebec.....                      | —            | 900    | 1,955  | 1,450  | 1,725  | 2,852  | 6,609  |
| *Portage la Prairie.....  | Manitoba.....                    | —            | —      | 3,363  | 3,901  | 5,892  | 6,766  | 6,597  |
| *Campbellton.....         | New Brunswick.....               | —            | —      | 1,782  | 2,652  | 3,817  | 5,570  | 6,505  |
| †Port Colborne.....       | Ontario.....                     | 988          | 1,716  | 1,154  | 1,253  | 1,624  | 3,415  | 6,503  |
| †Grand'Mère.....          | Quebec.....                      | —            | —      | —      | 2,511  | 4,783  | 7,631  | 6,461  |
| *Edmundston.....          | New Brunswick.....               | —            | —      | —      | —      | 1,821  | 4,035  | 6,430  |
| *Springhill.....          | Nova Scotia.....                 | —            | 900    | 4,813  | 4,559  | 5,713  | 5,681  | 6,355  |
| †Prince Rupert.....       | British Columbia.....            | —            | —      | —      | —      | 4,184  | 6,393  | 6,350  |
| *Magog.....               | Quebec.....                      | —            | —      | 2,100  | 3,516  | 3,978  | 5,159  | 6,302  |
| *Preston.....             | Ontario.....                     | 1,408        | 1,419  | 1,843  | 2,308  | 3,883  | 5,423  | 6,250  |
| †Trenton.....             | Ontario.....                     | 1,796        | 3,042  | 4,363  | 4,217  | 3,988  | 5,902  | 6,276  |
| †Victoriaville.....       | Quebec.....                      | 1,425        | 1,474  | 1,300  | 1,693  | 3,028  | 3,759  | 6,213  |
| *Kamloops.....            | British Columbia.....            | —            | —      | —      | —      | 3,772  | 4,501  | 6,167  |
| *North Sydney.....        | Nova Scotia.....                 | 1,200        | 1,520  | 2,513  | 4,046  | 5,418  | 6,585  | 6,139  |
| *St. Lambert.....         | Quebec.....                      | 327          | 332    | 906    | 1,362  | 3,344  | 3,890  | 6,075  |
| *Nelson.....              | British Columbia.....            | —            | —      | —      | 5,273  | 4,476  | 5,230  | 5,992  |
| *North Battleford.....    | Saskatchewan.....                | —            | —      | —      | —      | 2,105  | 4,108  | 5,986  |
| †Cobourg.....             | Ontario.....                     | 4,442        | 4,957  | 4,829  | 4,239  | 5,074  | 5,327  | 5,834  |
| †Collingwood.....         | Ontario.....                     | 2,829        | 4,445  | 4,939  | 5,755  | 7,090  | 5,882  | 5,809  |
| †Transcona.....           | Manitoba.....                    | —            | —      | —      | —      | —      | 4,185  | 5,747  |
| †Rimouski.....            | Quebec.....                      | 1,186        | 1,417  | 1,429  | 1,804  | 3,097  | 3,612  | 5,589  |
| †Brampton.....            | Ontario.....                     | 2,090        | 2,920  | 3,252  | 2,748  | 3,412  | 4,527  | 5,532  |
| †Fort Frances.....        | Ontario.....                     | —            | —      | 1,339  | 1,163  | 1,611  | 3,109  | 5,470  |
| †Longueuil.....           | Quebec.....                      | 2,083        | 2,355  | 2,757  | 2,835  | 3,972  | 4,682  | 5,407  |



**41.—Populations of Cities and Towns having over 5,000 Inhabitants in 1931, Compared with 1871-81-91-1901-11-21—concluded.**

| City or Town.       | Province.         | Populations. |       |       |       |       |       |       |
|---------------------|-------------------|--------------|-------|-------|-------|-------|-------|-------|
|                     |                   | 1871.        | 1881. | 1891. | 1901. | 1911. | 1921. | 1931. |
| St. Laurent.....    | Quebec.....       | —            | —     | 1,184 | 1,390 | 1,860 | 3,232 | 5,348 |
| *Renfrew.....       | Ontario.....      | 865          | 1,605 | 2,611 | 3,153 | 3,846 | 4,906 | 5,296 |
| *Swift Current..... | Saskatchewan..... | —            | —     | 121   | 1,852 | 3,518 | 5,296 | 5,296 |
| †Ingersoll.....     | Ontario.....      | 4,022        | 4,313 | 4,191 | 4,573 | 4,763 | 5,150 | 5,233 |
| †Simcoe.....        | Ontario.....      | 1,856        | 2,645 | 2,674 | 2,627 | 3,227 | 3,953 | 5,226 |
| Forest Hill.....    | Ontario.....      | —            | —     | —     | —     | —     | —     | 5,207 |
| *Hawkesbury.....    | Ontario.....      | 1,671        | 1,920 | 2,042 | 4,150 | 4,400 | 5,544 | 5,177 |
| †Thorold.....       | Ontario.....      | 1,635        | 2,456 | 2,273 | 1,979 | 2,273 | 4,825 | 5,092 |
| †Whitby.....        | Ontario.....      | 2,732        | 3,140 | 2,786 | 2,110 | 2,248 | 3,957 | 5,046 |
| Swansea.....        | Ontario.....      | —            | —     | —     | —     | —     | —     | 5,031 |
| *Yorkton.....       | Saskatchewan..... | —            | —     | —     | 700   | 2,309 | 5,151 | 5,027 |
| *Dundas.....        | Ontario.....      | 3,135        | 3,709 | 3,546 | 3,173 | 4,299 | 4,978 | 5,026 |
| *Stellarton.....    | Nova Scotia.....  | 1,750        | 1,599 | 2,410 | 2,335 | 3,910 | 5,312 | 5,002 |
| *Weyburn.....       | Saskatchewan..... | —            | —     | —     | 113   | 2,210 | 3,193 | 5,002 |

**42.—Populations of Towns and Villages having between 1,000 and 5,000 Inhabitants in 1931, Compared with 1901, 1911 and 1921.**

| Town or Village.             | 1901. | 1911. | 1921. | 1931. | Town or Village.           | 1901. | 1911. | 1921. | 1931. |
|------------------------------|-------|-------|-------|-------|----------------------------|-------|-------|-------|-------|
| <b>Prince Edward Island.</b> |       |       |       |       | <b>Quebec.</b>             |       |       |       |       |
| Summerside.....              | 2,875 | 2,678 | 3,228 | 3,759 | St. Jérôme de Matane....   | 1,176 | 2,056 | 3,050 | 4,757 |
| Souris.....                  | 1,140 | 1,089 | 1,094 | 1,063 | Buckingham.....            | 2,936 | 3,854 | 3,835 | 4,638 |
| <b>Nova Scotia.</b>          |       |       |       |       | Montmorency.....           | —     | 2,710 | 3,367 | 4,575 |
| Westville.....               | 3,471 | 4,417 | 4,550 | 3,946 | Montreal North.....        | —     | —     | 1,360 | 4,519 |
| Bridgewater.....             | 2,203 | 2,775 | 3,147 | 3,262 | Kenogami.....              | —     | —     | 2,557 | 4,500 |
| Pictou.....                  | 3,235 | 3,179 | 2,988 | 3,152 | Asbestos.....              | 783   | 2,224 | 2,189 | 4,396 |
| Kentville.....               | 1,731 | 2,304 | 2,717 | 3,033 | Farnham.....               | 3,114 | 3,560 | 3,343 | 4,205 |
| Windsor.....                 | 2,849 | 2,894 | 2,946 | 3,032 | St. Pierre.....            | 505   | 2,201 | 3,535 | 4,185 |
| Inverness.....               | 305   | 2,719 | 2,963 | 2,900 | Pointe Claire.....         | 555   | 793   | 2,617 | 4,058 |
| Dominion.....                | 1,546 | 2,589 | 2,390 | 2,846 | Coaticook.....             | 2,880 | 3,165 | 3,554 | 4,044 |
| Lunenburg.....               | 2,916 | 2,681 | 2,792 | 2,727 | St. Joseph d'Alma.....     | —     | —     | 850   | 3,970 |
| Liverpool.....               | 1,937 | 2,109 | 2,294 | 2,668 | Montmagny.....             | 1,919 | 2,617 | 4,145 | 3,927 |
| Trenton.....                 | 1,274 | 1,749 | 2,844 | 2,613 | Mégantic.....              | 2,171 | 2,816 | 3,140 | 3,911 |
| Parssboro.....               | 2,705 | 2,224 | 2,161 | 1,919 | Lachute.....               | 2,022 | 2,407 | 2,592 | 3,906 |
| Wolfville.....               | 1,412 | 1,458 | 1,743 | 1,818 | Beauharnois.....           | 1,976 | 2,015 | 2,250 | 3,729 |
| Antigonish.....              | 1,838 | 1,787 | 1,746 | 1,764 | Giffard.....               | —     | —     | 1,254 | 3,573 |
| Canso.....                   | 1,479 | 1,617 | 1,626 | 1,575 | East Angus.....            | —     | —     | 3,802 | 3,566 |
| Shelburne.....               | 1,445 | 1,435 | 1,360 | 1,474 | Ste. Thérèse.....          | 1,541 | 2,120 | 3,043 | 3,292 |
| Digby.....                   | 1,150 | 1,247 | 1,230 | 1,412 | Beaufort.....              | —     | —     | 3,240 | 3,242 |
| Wedgeport.....               | 1,026 | 1,392 | 1,424 | 1,294 | Rouyn.....                 | —     | —     | —     | 3,225 |
| Oxford.....                  | 1,285 | 1,392 | 1,402 | 1,133 | Montreal West.....         | 352   | 703   | 1,882 | 3,190 |
| Bridgetown.....              | 858   | 996   | 1,086 | 1,126 | Mont Joli.....             | 822   | 2,141 | 2,799 | 3,143 |
| Mahone Bay.....              | 866   | 951   | 1,177 | 1,065 | Pointe aux Trembles.....   | —     | 1,167 | 2,350 | 2,970 |
| Port Hawkesbury.....         | 633   | 684   | 869   | 1,011 | Ste. Agathe des Monts....  | 1,073 | 2,020 | 2,812 | 2,949 |
| Joggins.....                 | 1,088 | 1,648 | 1,732 | 1,000 | Baie St. Paul.....         | 1,408 | 1,857 | 2,291 | 2,916 |
| <b>New Brunswick.</b>        |       |       |       |       | Nicolet.....               | 2,225 | 2,593 | 3,242 | 2,868 |
| Chatham.....                 | 4,868 | 4,666 | 4,506 | 4,017 | Aylmer.....                | 2,291 | 3,109 | 2,970 | 2,835 |
| Dalhousie.....               | 862   | 1,650 | 1,958 | 3,974 | Charny.....                | —     | 1,408 | 2,265 | 2,823 |
| St. Stephen.....             | 2,840 | 2,836 | 3,452 | 3,437 | St. Joseph de Grantham.... | —     | —     | —     | 2,812 |
| Newcastle.....               | 2,507 | 2,945 | 3,507 | 3,383 | Iberville.....             | 1,512 | 1,905 | 2,454 | 2,778 |
| Bathurst.....                | 1,044 | 960   | 3,327 | 3,300 | Laprairie.....             | 1,451 | 2,388 | 2,158 | 2,774 |
| Woodstock.....               | 3,644 | 3,856 | 3,380 | 3,259 | Roberval.....              | 1,248 | 1,737 | 2,068 | 2,770 |
| Sussex.....                  | 1,398 | 1,906 | 2,198 | 2,252 | Windsor.....               | 2,149 | 2,233 | 2,330 | 2,720 |
| Sackville.....               | 1,444 | 2,039 | 2,173 | 2,234 | Laval des Rapides.....     | —     | 1,014 | 1,989 | 2,716 |
| Devon.....                   | —     | —     | 1,924 | 1,977 | Donnacona.....             | —     | —     | 1,225 | 2,631 |
| Shediac.....                 | 1,075 | 1,442 | 1,973 | 1,883 | Richmond.....              | 2,057 | 2,175 | 2,450 | 2,596 |
| Milltown.....                | 2,044 | 1,804 | 1,976 | 1,735 | Plessisville.....          | 1,586 | 1,559 | 2,032 | 2,536 |
| Grand Falls.....             | 644   | 1,280 | 1,327 | 1,556 | Bagotville.....            | 507   | 1,011 | 2,204 | 2,468 |
| Marysville.....              | 1,892 | 1,837 | 1,614 | 1,512 | Berthier.....              | 1,364 | 1,335 | 2,193 | 2,431 |
| St. Andrews.....             | 1,064 | 987   | 1,065 | 1,207 | Ste. Anne de Bellevue....  | 1,343 | 1,416 | 2,112 | 2,417 |
| St. George.....              | 733   | 988   | 1,110 | 1,087 | La Malbaie.....            | 826   | 1,449 | 1,883 | 2,408 |
|                              |       |       |       |       | Mont Laurier.....          | —     | 752   | 2,211 | 2,394 |
|                              |       |       |       |       | Louiseville.....           | 1,565 | 1,675 | 1,772 | 2,365 |

†Also known as Murray Bay.

**42.—Populations of Towns and Villages having between 1,000 and 5,000 Inhabitants in 1931, Compared with 1901, 1911 and 1921—continued.**

| Town or Village.          | 1901. | 1911. | 1921. | 1931. | Town or Village.         | 1901. | 1911. | 1921. | 1931. |
|---------------------------|-------|-------|-------|-------|--------------------------|-------|-------|-------|-------|
| <b>Quebec—continued.</b>  |       |       |       |       | <b>Quebec—concluded.</b> |       |       |       |       |
| La Salle.....             | —     | —     | 726   | 2,362 | Scotstown.....           | 791   | 933   | 987   | 1,189 |
| Saindon.....              | —     | —     | 1,793 | 2,355 | St. Eustache.....        | 1,079 | 996   | 1,098 | 1,187 |
| Port Alfred.....          | —     | —     | 1,213 | 2,342 | Montreal South.....      | —     | 790   | 1,030 | 1,164 |
| Priceville.....           | —     | —     | —     | 2,310 | Dorion.....              | 275   | 631   | 833   | 1,155 |
| Pointe Gatineau.....      | 1,583 | 1,751 | 1,919 | 2,282 | Cap Chat.....            | —     | —     | —     | 1,139 |
| Loretteville.....         | 1,555 | 1,588 | 2,066 | 2,251 | Fort Coulonge.....       | 482   | 811   | 973   | 1,130 |
| Noranda.....              | —     | —     | —     | 2,246 | St. Joseph de la Rivière | —     | —     | —     | —     |
| Montreal East.....        | —     | —     | 1,776 | 2,242 | Bleue.....               | —     | —     | 864   | 1,111 |
| Waterloo.....             | 1,797 | 1,886 | 2,063 | 2,192 | Ste. Anne de Chicoutimi. | 516   | 657   | 838   | 1,102 |
| Cabano.....               | —     | —     | —     | 2,187 | Rigaud.....              | 779   | 856   | 939   | 1,099 |
| Mont Royal.....           | —     | —     | 160   | 2,174 | Chateauguay.....         | —     | —     | 881   | 1,067 |
| Black Lake.....           | —     | 2,645 | 2,656 | 2,167 | L'Enfant Jésus.....      | —     | —     | —     | 1,066 |
| Amos.....                 | —     | —     | 1,488 | 2,153 | Rawdon.....              | —     | —     | 1,042 | 1,066 |
| Dorval.....               | 481   | 1,005 | 1,466 | 2,052 | Beebe Plain.....         | 477   | 808   | 921   | 1,053 |
| Dolbeau.....              | —     | —     | —     | 2,032 | St. Césaire.....         | 865   | 941   | 985   | 1,051 |
| Masson.....               | 1,012 | 1,034 | 950   | 2,015 | Ville Marie.....         | 502   | 850   | 840   | 1,049 |
| Alma.....                 | —     | —     | 1,174 | 2,010 | Rivière du Moulin.....   | —     | —     | 738   | 1,040 |
| St. Marc des Carrières.   | 296   | 1,224 | 1,492 | 1,997 | Val Brilliant.....       | —     | —     | 962   | 1,032 |
| Marieville.....           | 1,806 | 1,587 | 1,748 | 1,986 | Bio.....                 | —     | —     | 912   | 1,020 |
| St. Tite.....             | 991   | 1,438 | 1,783 | 1,969 | Notre-Dame de Portneuf   | —     | —     | 877   | 1,017 |
| Terrebonne.....           | 1,822 | 1,990 | 2,056 | 1,955 | <b>Ontario.</b>          |       |       |       |       |
| Lennoxville.....          | 1,120 | 1,211 | 1,554 | 1,927 | Leamington.....          | 2,451 | 2,652 | 3,675 | 4,902 |
| Ste. Anne de Beaupré.     | —     | 2,381 | 1,648 | 1,901 | Port Hope.....           | 4,188 | 5,092 | 4,456 | 4,723 |
| Charlesbourg.....         | —     | —     | 1,287 | 1,869 | Weston.....              | 1,083 | 1,875 | 3,166 | 4,723 |
| St. Joseph (Richelieu)... | 647   | 1,416 | 1,658 | 1,869 | Goderich.....            | 4,158 | 4,522 | 4,107 | 4,491 |
| East Broughton.....       | —     | 996   | 1,709 | 1,888 | Riverside.....           | —     | —     | 1,155 | 4,432 |
| Cowansville.....          | 699   | 881   | 1,094 | 1,859 | Wallaceburg.....         | 2,763 | 3,438 | 4,006 | 4,326 |
| Témiscamingue.....        | —     | —     | —     | 1,855 | Sturgeon Falls.....      | 1,418 | 2,199 | 4,125 | 4,234 |
| Trois Pistoles.....       | —     | —     | 1,454 | 1,837 | Paris.....               | 3,229 | 4,068 | 4,368 | 4,137 |
| Quebec West.....          | —     | —     | 130   | 1,813 | Carleton Place.....      | 4,059 | 3,621 | 3,841 | 4,105 |
| Arvida (city).....        | —     | —     | —     | 1,790 | Perth.....               | 3,588 | 3,588 | 3,790 | 4,099 |
| St. Alexis de la Grande   | —     | —     | —     | —     | Bowmanville.....         | 2,731 | 2,814 | 3,233 | 4,080 |
| Baie.....                 | —     | 1,355 | 1,735 | 1,790 | Penetanguishene.....     | 2,422 | 3,568 | 4,037 | 4,035 |
| Lac au Saumon.....        | —     | 1,171 | 1,354 | 1,779 | Arnprior.....            | 4,152 | 4,405 | 4,077 | 4,263 |
| St. Raymond.....          | 1,272 | 1,653 | 1,693 | 1,772 | Cochrane.....            | —     | 1,715 | 2,655 | 3,923 |
| Acton Vale.....           | 1,175 | 1,402 | 1,549 | 1,753 | Long Branch.....         | —     | —     | —     | 3,962 |
| Chandler.....             | —     | —     | 1,756 | 1,741 | Cobalt.....              | —     | 5,638 | 4,449 | 3,885 |
| Maniwaki.....             | —     | —     | —     | 1,720 | Oakville.....            | 1,643 | 2,372 | 3,298 | 3,857 |
| L'Epiphanie.....          | —     | —     | —     | 1,705 | Kapuskasing.....         | —     | —     | 926   | 3,819 |
| Courville.....            | —     | 910   | 1,293 | 1,678 | St. Marys.....           | 3,384 | 3,388 | 3,847 | 3,802 |
| Ste. Rose.....            | 1,154 | 1,480 | 1,811 | 1,661 | Newmarket.....           | 2,125 | 2,996 | 3,626 | 3,748 |
| Deschailions.....         | 1,213 | 1,161 | 1,680 | 1,650 | Gananoque.....           | 3,526 | 3,804 | 3,604 | 3,592 |
| St. Benoit Joseph Labre.  | —     | 1,070 | 1,416 | 1,648 | Pictou.....              | 3,698 | 3,564 | 3,356 | 3,580 |
| St. Joseph (Beauce).....  | 1,117 | 1,440 | 1,445 | 1,625 | Bridgeburg.....          | 1,356 | 1,770 | 2,401 | 3,521 |
| Huntingdon.....           | 1,122 | 1,265 | 1,401 | 1,619 | Parry Sound.....         | 2,884 | 3,429 | 3,546 | 3,512 |
| Greenfield Park.....      | —     | —     | 1,112 | 1,610 | Napanee.....             | 3,143 | 2,807 | 3,038 | 3,497 |
| Arthabaska.....           | 995   | 1,458 | 1,234 | 1,608 | Dunnville.....           | 2,105 | 2,861 | 3,224 | 3,405 |
| St. Félicien.....         | —     | 581   | 1,306 | 1,599 | Tillsonburg.....         | 2,241 | 2,758 | 2,974 | 3,385 |
| Ste. Marie.....           | —     | —     | 1,311 | 1,598 | Copper Cliff.....        | 2,500 | 3,082 | 2,597 | 3,173 |
| L'Assomption.....         | 1,605 | 1,747 | 1,320 | 1,576 | Hanover.....             | 1,392 | 2,342 | 2,781 | 3,077 |
| Bedford.....              | 1,364 | 1,432 | 1,669 | 1,570 | Burlington.....          | 1,119 | 1,831 | 2,709 | 3,046 |
| St. Georges East.....     | —     | 1,410 | 1,058 | 1,543 | Prescott.....            | 3,019 | 2,801 | 2,636 | 2,984 |
| Lac St. Louis.....        | —     | —     | 597   | 1,537 | Strathroy.....           | 2,933 | 2,823 | 2,691 | 2,964 |
| St. Gabriel de Brandon..  | 1,199 | 1,602 | 1,667 | 1,530 | New Liskeard.....        | —     | 2,108 | 2,268 | 2,880 |
| St. Jacques.....          | —     | —     | 1,332 | 1,529 | Huntsville.....          | 2,152 | 2,358 | 2,246 | 2,817 |
| St. Michel de Laval.....  | —     | —     | 493   | 1,528 | Haileybury.....          | —     | 3,874 | 3,743 | 2,813 |
| Bromtonville.....         | —     | 1,239 | 2,603 | 1,527 | Blind River.....         | 2,656 | 2,558 | 1,843 | 2,805 |
| Montebello.....           | 795   | 954   | 977   | 1,501 | Amherstburg.....         | 2,222 | 2,560 | 2,769 | 2,759 |
| Disraeli.....             | 1,018 | 1,606 | 1,646 | 1,437 | Hespeler.....            | 2,457 | 2,368 | 2,777 | 2,752 |
| Belœil.....               | —     | 1,501 | 1,418 | 1,434 | Campbellford.....        | 2,435 | 3,051 | 2,890 | 2,744 |
| Rock Island.....          | 615   | 861   | 1,442 | 1,424 | Portsmouth.....          | 1,827 | 1,786 | 2,351 | 2,741 |
| Causapscal.....           | —     | —     | —     | 1,390 | Listowel.....            | 2,693 | 2,289 | 2,477 | 2,676 |
| Danville.....             | 1,017 | 1,331 | 1,290 | 1,354 | Meaford.....             | 1,916 | 2,811 | 2,650 | 2,624 |
| Pont Rouge.....           | —     | —     | 1,419 | 1,353 | Orangeville.....         | 2,511 | 2,340 | 2,187 | 2,614 |
| Pierreville.....          | 1,108 | 1,363 | 1,394 | 1,352 | Petrolia.....            | 4,135 | 3,518 | 3,148 | 2,596 |
| Baie de Shawinigan.....   | —     | 1,024 | 1,213 | 1,316 | Fergus.....              | 1,396 | 1,934 | 1,796 | 2,594 |
| St. Casimir.....          | —     | —     | 1,457 | 1,316 | Aurora.....              | 1,590 | 1,501 | 2,307 | 2,587 |
| Thurso.....               | 525   | 601   | 538   | 1,292 | Merritton.....           | 1,710 | 1,670 | 2,544 | 2,523 |
| Chambly Basin.....        | 849   | 900   | 1,068 | 1,287 | Humberstone.....         | —     | —     | 1,524 | 2,490 |
| Laurentides.....          | 934   | 1,128 | 1,150 | 1,284 | Kincardine.....          | 2,077 | 1,956 | 2,077 | 2,465 |
| La Providence.....        | 819   | 894   | 1,078 | 1,241 | Bracebridge.....         | 2,479 | 2,776 | 2,451 | 2,436 |
| St. Jérôme.....           | 498   | 719   | 923   | 1,235 | Walkerton.....           | 2,971 | 2,601 | 2,344 | 2,431 |
| St. Pacôme.....           | —     | —     | —     | 1,235 | Almonte.....             | 3,023 | 2,452 | 2,426 | 2,415 |
| L'Abord-à-Plouffe.....    | —     | —     | 1,011 | 1,227 | Fort Erie.....           | 890   | 1,146 | 1,546 | 2,383 |
| St. Rémi.....             | 1,080 | 1,021 | 1,135 | 1,201 |                          |       |       |       |       |

## 42.—Populations of Towns and Villages having between 1,000 and 5,000 Inhabitants in 1931, Compared with 1901, 1911 and 1921—continued.

| Town or Village.          | 1901. | 1911. | 1921. | 1931. | Town or Village.                | 1901. | 1911. | 1921. | 1931. |
|---------------------------|-------|-------|-------|-------|---------------------------------|-------|-------|-------|-------|
| <b>Ontario—continued.</b> |       |       |       |       | <b>Ontario—concluded.</b>       |       |       |       |       |
| Georgetown.....           | 1,313 | 1,583 | 2,061 | 2,288 | Madoc.....                      | 1,157 | 1,058 | 1,058 | 1,059 |
| Aylmer.....               | 2,204 | 2,102 | 2,194 | 2,283 | Parkhill.....                   | 1,430 | 1,289 | 1,152 | 1,030 |
| Grimsby.....              | 1,001 | 1,669 | 2,004 | 2,198 | Tavistock.....                  | 403   | 981   | 1,011 | 1,029 |
| Kingsville.....           | 1,537 | 1,427 | 1,783 | 2,174 | Winchester.....                 | 1,101 | 1,143 | 1,126 | 1,027 |
| Elmira.....               | 1,060 | 1,782 | 2,016 | 2,170 | Arthur.....                     | 1,285 | 1,102 | 1,104 | 1,021 |
| Tecumseh.....             | —     | —     | 978   | 2,129 | Eganville.....                  | 1,107 | 1,189 | 1,015 | 1,020 |
| Rockland.....             | 1,998 | 3,397 | 3,496 | 2,118 | Stayner.....                    | 1,225 | 1,039 | 972   | 1,019 |
| Sioux Lookout.....        | —     | 550   | 1,127 | 2,088 | Colborne.....                   | 1,017 | 999   | 932   | 1,015 |
| Alexandria.....           | 1,911 | 2,323 | 2,195 | 2,006 | Chesterville.....               | 932   | 883   | 967   | 1,012 |
| Tilbury.....              | 1,012 | 1,368 | 1,673 | 1,992 | Markham.....                    | 967   | 909   | 1,012 | 1,008 |
| Wingham.....              | 2,392 | 2,238 | 2,092 | 1,959 | <b>Manitoba.</b>                |       |       |       |       |
| Essex.....                | 1,391 | 1,353 | 1,588 | 1,954 | Selkirk.....                    | 2,188 | 2,977 | 3,726 | 4,486 |
| Ridgetown.....            | 2,405 | 1,954 | 1,855 | 1,952 | The Pas.....                    | —     | —     | 1,858 | 4,030 |
| Warton.....               | 2,443 | 2,266 | 1,726 | 1,949 | Dauphin.....                    | 1,135 | 2,815 | 3,885 | 3,971 |
| Gravenhurst.....          | 2,146 | 1,624 | 1,478 | 1,864 | Brooklands.....                 | —     | —     | —     | 2,462 |
| Acton.....                | 1,484 | 1,720 | 1,722 | 1,855 | Neepawa.....                    | 1,418 | 1,864 | 1,887 | 1,910 |
| Milton.....               | 1,372 | 1,654 | 1,873 | 1,839 | Minnedosa.....                  | 1,052 | 1,483 | 1,505 | 1,680 |
| Mount Forest.....         | 2,019 | 1,839 | 1,718 | 1,801 | Souris.....                     | 839   | 1,854 | 1,710 | 1,661 |
| Clinton.....              | 2,547 | 2,254 | 2,018 | 1,789 | Virden.....                     | 901   | 1,550 | 1,361 | 1,590 |
| Durham.....               | 1,422 | 1,581 | 1,494 | 1,750 | Carman.....                     | 1,439 | 1,271 | 1,591 | 1,418 |
| Blenheim.....             | 1,653 | 1,387 | 1,565 | 1,737 | Morden.....                     | 1,522 | 1,130 | 1,268 | 1,416 |
| Port Dover.....           | 1,177 | 1,138 | 1,462 | 1,707 | Tuxedo.....                     | —     | —     | 1,062 | 1,173 |
| Chesley.....              | 1,734 | 1,734 | 1,708 | 1,699 | Beauséjour.....                 | —     | 847   | 994   | 1,139 |
| Seaforth.....             | 2,245 | 1,983 | 1,829 | 1,686 | Stonewall.....                  | 589   | 1,005 | 1,112 | 1,031 |
| Capreol.....              | —     | —     | 2,287 | 1,684 | Winkler.....                    | 391   | 458   | 812   | 1,005 |
| Exeter.....               | 1,792 | 1,555 | 1,442 | 1,666 | Killarney.....                  | 585   | 1,010 | 871   | 1,003 |
| Port Credit.....          | —     | —     | 1,123 | 1,635 | <b>Saskatchewan.</b>            |       |       |       |       |
| Thessalon.....            | 1,205 | 1,945 | 1,651 | 1,632 | Melville.....                   | —     | 1,816 | 2,808 | 3,891 |
| Mattawa.....              | 1,400 | 1,524 | 1,462 | 1,631 | Estevan.....                    | 141   | 1,981 | 2,290 | 2,936 |
| Mitchell.....             | 1,945 | 1,766 | 1,800 | 1,588 | Biggan.....                     | —     | 315   | 1,535 | 2,369 |
| Brighton.....             | 1,378 | 1,320 | 1,411 | 1,580 | Kamsack.....                    | —     | 473   | 2,002 | 2,087 |
| Port Dalhousie.....       | 1,135 | 1,152 | 1,492 | 1,547 | Humboldt.....                   | —     | 859   | 1,822 | 1,899 |
| Palmerston.....           | 1,850 | 1,665 | 1,523 | 1,543 | Melfort.....                    | —     | 599   | 1,746 | 1,809 |
| Dresden.....              | 1,613 | 1,551 | 1,339 | 1,529 | Shamavon.....                   | —     | —     | 1,146 | 1,761 |
| Southampton.....          | 1,636 | 1,685 | 1,537 | 1,489 | Rosetown.....                   | —     | 317   | 865   | 1,553 |
| Forest.....               | 1,553 | 1,445 | 1,422 | 1,480 | Lloydminster <sup>1</sup> ..... | —     | 663   | 755   | 1,516 |
| Toronto.....              | 3,527 | 2,013 | 1,847 | 1,476 | Assiniboia.....                 | —     | —     | 1,006 | 1,454 |
| Iroquois Falls.....       | —     | —     | 1,178 | 1,476 | Indian Head.....                | 768   | 1,285 | 1,439 | 1,438 |
| New Hamburg.....          | 1,208 | 1,484 | 1,351 | 1,436 | Rosthern.....                   | 413   | 1,172 | 1,074 | 1,412 |
| Keewatin.....             | 1,156 | 1,242 | 1,327 | 1,422 | Watrous.....                    | —     | 781   | 1,101 | 1,303 |
| Morrisburg.....           | 1,693 | 1,696 | 1,444 | 1,420 | Wilkie.....                     | —     | 537   | 778   | 1,222 |
| Rainy River.....          | —     | 1,578 | 1,444 | 1,402 | Canora.....                     | —     | 435   | 1,230 | 1,179 |
| Caledonia.....            | 801   | 952   | 1,223 | 1,396 | Maple Creek.....                | 382   | 936   | 1,002 | 1,154 |
| Hagersville.....          | 1,020 | 1,106 | 1,169 | 1,385 | Sutherland.....                 | —     | 421   | 961   | 1,148 |
| Vankleek Hill.....        | 1,674 | 1,577 | 1,499 | 1,380 | Gravelbourg.....                | —     | —     | 1,106 | 1,137 |
| Point Edward.....         | 780   | 874   | 1,258 | 1,362 | Moosomin.....                   | 868   | 1,143 | 1,099 | 1,119 |
| Alliston.....             | 1,256 | 1,279 | 1,376 | 1,355 | Battleford.....                 | 609   | 1,335 | 1,229 | 1,096 |
| Lakefield.....            | 1,244 | 1,397 | 1,189 | 1,332 | Tisdale.....                    | —     | 250   | 783   | 1,069 |
| Dryden.....               | 140   | 715   | 1,019 | 1,326 | Wynyard.....                    | —     | 515   | 849   | 1,042 |
| Uxbridge.....             | 1,657 | 1,433 | 1,456 | 1,325 | Kindersley.....                 | —     | 456   | 1,003 | 1,037 |
| Cardinal.....             | 1,378 | 1,111 | 1,241 | 1,319 | Herbert.....                    | —     | 559   | 827   | 1,009 |
| Port Elgin.....           | 1,313 | 1,235 | 1,291 | 1,305 | Radville.....                   | —     | 233   | 883   | 1,005 |
| Harrison.....             | 1,637 | 1,491 | 1,263 | 1,296 | <b>Alberta.</b>                 |       |       |       |       |
| Richmond Hill.....        | 629   | 652   | 1,055 | 1,295 | Drumheller (city).....          | —     | —     | 2,499 | 2,987 |
| Kemptville.....           | 1,523 | 1,192 | 1,204 | 1,286 | Red Deer (city).....            | 323   | 2,118 | 2,328 | 2,344 |
| Tweed.....                | 1,168 | 1,368 | 1,339 | 1,271 | Camrose.....                    | —     | 1,586 | 1,892 | 2,258 |
| Chippawa.....             | 460   | 707   | 1,137 | 1,266 | Wetaskiwin (city).....          | 550   | 2,411 | 2,061 | 2,125 |
| Niagara.....              | 1,258 | 1,318 | 1,357 | 1,228 | Raymond.....                    | —     | 1,465 | 1,394 | 1,849 |
| Waterford.....            | 1,122 | 1,083 | 1,123 | 1,213 | Coleman.....                    | —     | 1,557 | 1,590 | 1,704 |
| Englehart.....            | —     | 670   | 759   | 1,210 | Cardston.....                   | 639   | 1,207 | 1,612 | 1,672 |
| Beamsville.....           | 832   | 1,096 | 1,256 | 1,203 | Vegreville.....                 | —     | 1,029 | 1,479 | 1,659 |
| Elora.....                | 1,187 | 1,197 | 1,136 | 1,195 | Blairmore.....                  | 231   | 1,137 | 1,552 | 1,629 |
| Havelock.....             | 984   | 1,436 | 1,268 | 1,173 | Edson.....                      | —     | 497   | 1,138 | 1,547 |
| Port Perry.....           | 1,465 | 1,148 | 1,143 | 1,163 | Hanna.....                      | —     | —     | 1,364 | 1,490 |
| Norwich.....              | 1,269 | 1,112 | 1,176 | 1,158 | Grande Prairie.....             | —     | —     | 1,061 | 1,464 |
| Stouffville.....          | 1,223 | 1,034 | 1,053 | 1,155 | High River.....                 | 153   | 1,182 | 1,198 | 1,459 |
| Cache Bay.....            | 384   | 889   | 266   | 1,151 | Macleod.....                    | 796   | 1,844 | 1,723 | 1,447 |
| Victoria Harbour.....     | 689   | 1,616 | 1,463 | 1,128 | Taber.....                      | —     | 1,400 | 1,705 | 1,279 |
| Delhi.....                | 823   | 825   | 733   | 1,121 |                                 |       |       |       |       |
| L'Orignal.....            | 1,026 | 1,347 | 1,298 | 1,121 |                                 |       |       |       |       |
| Little Current.....       | 728   | 1,208 | 923   | 1,101 |                                 |       |       |       |       |
| Shelburne.....            | 1,188 | 1,113 | 1,072 | 1,077 |                                 |       |       |       |       |

<sup>1</sup> Under the Saskatchewan Town Act Lloydminster, Alberta, is merged with Lloydminster, Saskatchewan, for municipal purposes.



**42.—Populations of Towns and Villages having between 1,000 and 5,000 Inhabitants in 1931, Compared with 1901, 1911 and 1921—concluded.**

| Town or Village.          | 1901. | 1911. | 1921. | 1931. | Town or Village.         | 1901. | 1911. | 1921. | 1931. |
|---------------------------|-------|-------|-------|-------|--------------------------|-------|-------|-------|-------|
| <b>Alberta—concluded.</b> |       |       |       |       | <b>British Columbia</b>  |       |       |       |       |
| Vermilion.....            | —     | 625   | 1,272 | 1,270 | —concluded.              |       |       |       |       |
| Lacombe.....              | 499   | 1,029 | 1,133 | 1,259 | Cranbrook (city).....    | 1,196 | 3,090 | 2,725 | 3,067 |
| Magrath.....              | 424   | 995   | 1,069 | 1,224 | Roseland (city).....     | 6,156 | 2,826 | 2,097 | 2,848 |
| Stettler.....             | —     | 1,444 | 1,416 | 1,219 | Revelstoke (city).....   | 1,600 | 3,017 | 2,782 | 2,736 |
| Redcliff.....             | —     | 220   | 1,137 | 1,192 | Fernie (city).....       | —     | 3,146 | 2,802 | 2,732 |
| Claresholm.....           | —     | 809   | 963   | 1,156 | Prince George (city).... | —     | —     | 2,053 | 2,479 |
| Wainwright.....           | —     | 788   | 975   | 1,147 | Chilliwack (city).....   | 277   | 1,657 | 1,767 | 2,461 |
| Beverly.....              | —     | —     | 1,039 | 1,111 | Cumberland (city).....   | 732   | 1,237 | 2,161 | 2,371 |
| Olds.....                 | 218   | 917   | 764   | 1,056 | Port Alberni (city)..... | —     | —     | 1,056 | 2,356 |
| Innisfail.....            | 317   | 602   | 941   | 1,024 | Duncan (city).....       | —     | —     | 1,178 | 1,843 |
| Pincher Creek.....        | 335   | 1,027 | 888   | 1,024 | Ladysmith (city).....    | 746   | 2,517 | 1,151 | 1,443 |
| Port Saskatchewan.....    | 306   | 782   | 982   | 1,001 | Mission (village).....   | —     | —     | —     | 1,314 |
| <b>British Columbia.</b>  |       |       |       |       | Port Coquitlam (city)... | —     | —     | 1,178 | 1,312 |
| Kelowna (city).....       | 261   | 1,663 | 2,520 | 4,655 | Grand Forks (city).....  | 1,012 | 1,577 | 1,469 | 1,298 |
| Vernon (city).....        | 802   | 2,671 | 3,685 | 3,937 | Merritt (city).....      | —     | 703   | 1,389 | 1,296 |
|                           |       |       |       |       | Port Moody (city).....   | —     | —     | 1,030 | 1,260 |
|                           |       |       |       |       | Courtenay (city).....    | —     | —     | 810   | 1,219 |

**Rural and Urban Farm Populations.**—Of the 10,362,833 people who form the population of the nine provinces of Canada, exclusive of the Territories, only 3,289,507 or 31·7 p.c. live on farms.

There are 728,623 farms within the nine provinces and, considering the 14,056 farms (see Table 43) which are located within the limits of incorporated cities, towns or villages as "urban", the farm population is classified as 3,224,241 living on rural farms and 65,266 on urban farms. More than one half (50·5 p.c.) of the people on urban farms are in Quebec and only 23·6 p.c. in Ontario. Alberta ranks third with 6·4 p.c. and Nova Scotia fourth with 5·7 p.c. This is in contrast with the distribution on rural farms where 24·4 p.c. are in Ontario, 23·1 in Quebec, 17·4 in Saskatchewan and 11·5 in Alberta; these four provinces therefore have 76·4 p.c. of the rural farm population. The rural and urban farm populations bear a very close relationship to the number of farms of each class in the individual provinces but the distribution of rural farms follows more closely the distribution of total population (see Table 1) than that of urban farms. Among the provinces, Quebec has the greatest number of persons per farm on farms of both the rural and urban classes.

Table 43 gives the number of farms and the farm populations, urban and rural, by provinces as recorded at the Census of 1931.

**43.—Rural and Urban Farms, Farm Populations and Average Numbers of Persons per Farm, by Provinces, 1931.**

| Province.                | Farms June 1, 1931. |                |               | Population June 1, 1931, living on— |                  |               | Persons per Farm. |             |             |
|--------------------------|---------------------|----------------|---------------|-------------------------------------|------------------|---------------|-------------------|-------------|-------------|
|                          | Total.              | Rural.         | Urban.        | All Farms.                          | Rural Farms.     | Urban Farms.  | All.              | Rural.      | Urban.      |
|                          | No.                 | No.            | No.           | No.                                 | No.              | No.           | No.               | No.         | No.         |
| Prince Edward Island.... | 12,865              | 12,096         | 169           | 55,478                              | 54,963           | 515           | 4·31              | 4·32        | 3·04        |
| Nova Scotia.....         | 39,444              | 38,029         | 815           | 177,090                             | 173,965          | 3,725         | 4·50              | 4·50        | 4·57        |
| New Brunswick.....       | 34,025              | 33,646         | 379           | 180,214                             | 178,494          | 1,720         | 5·29              | 5·30        | 4·53        |
| Quebec.....              | 135,957             | 129,863        | 6,094         | 777,384                             | 744,417          | 32,967        | 5·72              | 5·74        | 5·41        |
| Ontario.....             | 192,174             | 188,134        | 4,040         | 800,960                             | 785,550          | 15,410        | 4·16              | 4·17        | 3·81        |
| Manitoba.....            | 54,199              | 53,777         | 422           | 256,305                             | 254,302          | 2,003         | 4·72              | 4·72        | 4·74        |
| Saskatchewan.....        | 136,472             | 135,826        | 646           | 564,012                             | 561,407          | 2,605         | 4·13              | 4·13        | 4·03        |
| Alberta.....             | 97,408              | 96,439         | 969           | 375,097                             | 370,899          | 4,198         | 3·95              | 3·84        | 4·33        |
| British Columbia.....    | 26,079              | 25,557         | 522           | 102,367                             | 100,244          | 2,123         | 3·50              | 3·92        | 4·06        |
| <b>Canada.....</b>       | <b>728,623</b>      | <b>714,567</b> | <b>14,056</b> | <b>3,289,507</b>                    | <b>3,224,241</b> | <b>65,266</b> | <b>4·51</b>       | <b>4·51</b> | <b>4·64</b> |



Details regarding farm workers and those farms employing hired labour, the period of employment and cost of wages and board, are dealt with in Chapter VIII—Agriculture. The reader is referred to Table 44, p. 299 for this information.

### Section 11.—Literacy.

Literacy in Canada has shown most encouraging progress since the opening of the twentieth century.

In 1901, 14.38 p.c. of the population of five years of age and over could neither read nor write; the corresponding percentage for 1911 was 10.50; for 1921, 9.25; and for 1931 it was only 7.18. (See Table 44.)

**44.—Ability to Read and Write of the Population 5 Years of Age and Over, by Provinces, for each Census Year 1901-31.**

| Province.                    | Total Population. | Five Years of Age and Over. | Numbers, 5 Years and Over. |                |                             | Percentages, 5 Years and Over. |                |                             |
|------------------------------|-------------------|-----------------------------|----------------------------|----------------|-----------------------------|--------------------------------|----------------|-----------------------------|
|                              |                   |                             | Can Read and Write.        | Can Read only. | Can neither Read nor Write. | Can Read and Write.            | Can Read only. | Can neither Read nor Write. |
|                              | No.               | No.                         | No.                        | No.            | No.                         | p.c.                           | p.c.           | p.c.                        |
| <b>Prince Edward Island—</b> |                   |                             |                            |                |                             |                                |                |                             |
| 1901                         | 103,259           | 91,860                      | 77,372                     | 4,591          | 9,897                       | 84.23                          | 5.00           | 10.77                       |
| 1911                         | 93,728            | 83,792                      | 76,259                     | 1,153          | 6,380                       | 91.01                          | 1.38           | 7.61                        |
| 1921                         | 88,615            | 78,969                      | 72,147                     | 1,335          | 5,487                       | 91.36                          | 1.69           | 6.95                        |
| 1931                         | 88,038            | 78,893                      | 73,260                     | 800            | 4,833                       | 92.86                          | 1.01           | 6.13                        |
| <b>Nova Scotia—</b>          |                   |                             |                            |                |                             |                                |                |                             |
| 1901                         | 459,574           | 407,152                     | 331,007                    | 18,143         | 58,002                      | 81.30                          | 4.46           | 14.24                       |
| 1911                         | 492,338           | 433,801                     | 384,605                    | 4,358          | 44,838                      | 88.66                          | 1.00           | 10.34                       |
| 1921                         | 523,837           | 463,442                     | 413,952                    | 6,026          | 43,464                      | 89.32                          | 1.30           | 9.38                        |
| 1931                         | 512,846           | 459,587                     | 419,760                    | 4,342          | 35,485                      | 91.33                          | 0.94           | 7.72                        |
| <b>New Brunswick—</b>        |                   |                             |                            |                |                             |                                |                |                             |
| 1901                         | 331,120           | 290,732                     | 233,060                    | 10,618         | 47,054                      | 80.16                          | 3.65           | 16.19                       |
| 1911                         | 351,889           | 306,896                     | 261,160                    | 2,622          | 43,114                      | 85.10                          | 0.85           | 14.05                       |
| 1921                         | 387,876           | 338,996                     | 293,454                    | 3,286          | 42,256                      | 86.57                          | 0.97           | 12.46                       |
| 1931                         | 408,219           | 360,633                     | 316,224                    | 3,507          | 40,902                      | 87.69                          | 0.97           | 11.34                       |
| <b>Quebec—</b>               |                   |                             |                            |                |                             |                                |                |                             |
| 1901                         | 1,648,898         | 1,411,324                   | 1,099,693                  | 61,614         | 250,017                     | 77.92                          | 4.37           | 17.71                       |
| 1911                         | 2,005,776         | 1,714,545                   | 1,483,301                  | 12,977         | 218,267                     | 86.51                          | 0.76           | 12.73                       |
| 1921                         | 2,360,665         | 2,043,748                   | 1,814,709                  | 17,943         | 211,096                     | 88.79                          | 0.88           | 10.33                       |
| 1931                         | 2,874,255         | 2,521,360                   | 2,275,342                  | 21,656         | 224,362                     | 90.24                          | 0.86           | 8.90                        |
| <b>Ontario—</b>              |                   |                             |                            |                |                             |                                |                |                             |
| 1901                         | 2,182,947         | 1,958,635                   | 1,758,427                  | 28,830         | 171,378                     | 89.78                          | 1.47           | 8.75                        |
| 1911                         | 2,527,292         | 2,264,419                   | 2,108,485                  | 7,302          | 148,632                     | 93.11                          | 0.32           | 6.57                        |
| 1921                         | 2,933,662         | 2,632,085                   | 2,447,588                  | 15,207         | 169,290                     | 92.99                          | 0.58           | 6.43                        |
| 1931                         | 3,431,683         | 3,124,014                   | 2,959,132                  | 9,254          | 155,628                     | 94.72                          | 0.30           | 4.98                        |
| <b>Manitoba—</b>             |                   |                             |                            |                |                             |                                |                |                             |
| 1901                         | 255,211           | 219,290                     | 184,295                    | 3,083          | 31,912                      | 84.04                          | 1.41           | 14.55                       |
| 1911                         | 461,394           | 398,078                     | 340,870                    | 1,231          | 55,977                      | 85.63                          | 0.31           | 14.06                       |
| 1921                         | 610,118           | 532,306                     | 464,369                    | 4,011          | 63,926                      | 87.24                          | 0.75           | 12.01                       |
| 1931                         | 700,139           | 633,540                     | 582,689                    | 2,647          | 48,204                      | 91.97                          | 0.42           | 7.61                        |
| <b>Saskatchewan—</b>         |                   |                             |                            |                |                             |                                |                |                             |
| 1901                         | 91,279            | 78,185                      | 49,941                     | 797            | 27,447                      | 63.88                          | 1.02           | 35.10                       |
| 1911                         | 492,432           | 421,432                     | 362,768                    | 926            | 57,738                      | 86.08                          | 0.22           | 13.70                       |
| 1921                         | 757,510           | 644,335                     | 566,038                    | 4,609          | 73,688                      | 87.85                          | 0.71           | 11.44                       |
| 1931                         | 921,785           | 816,559                     | 747,024                    | 4,079          | 65,456                      | 91.48                          | 0.50           | 8.02                        |

**44.—Ability to Read and Write of the Population 5 Years of Age and Over, by Provinces, for each Census Year, 1901-31—concluded.**

| Province.                     |      | Total Population. | Five Years of Age and Over. | Numbers, 5 Years and Over. |                |                             | Percentages, 5 Years and Over. |                |                             |
|-------------------------------|------|-------------------|-----------------------------|----------------------------|----------------|-----------------------------|--------------------------------|----------------|-----------------------------|
|                               |      |                   |                             | Can Read and Write.        | Can Read only. | Can neither Read nor Write. | Can Read and Write.            | Can Read only. | Can neither Read nor Write. |
|                               |      | No.               | No.                         | No.                        | No.            | No.                         | p.c.                           | p.c.           | p.c.                        |
| <b>Alberta—</b>               | 1901 | 73,022            | 62,554                      | 42,731                     | 707            | 19,116                      | 68.31                          | 1.13           | 30.56                       |
|                               | 1911 | 374,295           | 325,916                     | 283,513                    | 1,198          | 41,205                      | 86.99                          | 0.37           | 12.64                       |
|                               | 1921 | 588,454           | 509,896                     | 453,572                    | 3,259          | 53,065                      | 88.95                          | 0.64           | 10.41                       |
|                               | 1931 | 751,605           | 653,233                     | 603,401                    | 3,228          | 46,604                      | 92.37                          | 0.49           | 7.13                        |
| <b>British Columbia—</b>      | 1901 | 178,657           | 163,336                     | 121,782                    | 973            | 40,581                      | 74.56                          | 0.60           | 24.84                       |
|                               | 1911 | 392,480           | 356,603                     | 314,183                    | 1,013          | 41,407                      | 88.11                          | 0.28           | 11.61                       |
|                               | 1921 | 524,582           | 474,787                     | 427,374                    | 2,552          | 44,861                      | 90.01                          | 0.54           | 9.45                        |
|                               | 1931 | 694,263           | 642,284                     | 600,413                    | 2,046          | 39,825                      | 93.48                          | 0.32           | 6.20                        |
| <b>Yukon—</b>                 | 1901 | 27,219            | 26,864                      | 17,374                     | 54             | 9,436                       | 64.67                          | 0.20           | 35.13                       |
|                               | 1911 | 8,512             | 8,006                       | 6,843                      | 76             | 1,087                       | 85.47                          | 0.95           | 13.58                       |
|                               | 1921 | 4,157             | 3,880                       | 2,732                      | 8              | 1,140                       | 70.41                          | 0.21           | 29.38                       |
|                               | 1931 | 4,230             | 3,869                       | 2,811                      | 32             | 1,026                       | 72.65                          | 0.83           | 26.52                       |
| <b>Northwest Territories—</b> | 1901 | 20,129            | 18,699                      | 3,233                      | 174            | 15,292                      | 17.29                          | 0.93           | 81.78                       |
|                               | 1911 | 6,507             | 5,672                       | 857                        | 7              | 4,808                       | 15.11                          | 0.12           | 84.77                       |
|                               | 1921 | 7,988             | 7,471                       | 749                        | 6              | 6,716                       | 10.03                          | 0.08           | 89.89                       |
|                               | 1931 | 9,723             | 8,399                       | 2,929                      | 118            | 5,352                       | 34.87                          | 1.40           | 63.72                       |
| <b>Canada—</b>                | 1901 | 5,371,315         | 4,728,631                   | 3,918,915                  | 129,581        | 689,132                     | 82.88                          | 2.74           | 14.38                       |
|                               | 1911 | 7,206,643         | 6,319,160                   | 5,622,844                  | 32,863         | 663,453                     | 88.98                          | 0.52           | 10.50                       |
|                               | 1921 | 8,787,949         | 7,730,400                   | 6,957,168                  | 58,242         | 714,990                     | 90.00                          | 0.75           | 9.25                        |
|                               | 1931 | 10,376,786        | 9,302,371                   | 8,582,985                  | 51,709         | 667,677                     | 92.27                          | 0.56           | 7.18                        |

**Literacy of Population over Ten Years of Age, by Age-Groups and Sex.—**

Experience has shown that statistics of literacy among children under ten years of age are practically meaningless. A truer test of progress has been made by taking the statistics for the population of ten years of age and over, but, unfortunately, this comparison cannot be made for earlier censuses than that of 1921. Table 45 shows literacy, by sex and province, of persons ten years of age and over in 1931, and the percentage of illiterates in this significant section of the population was 3.79 p.c. in 1931, as compared with 5.10 p.c. in 1921. It will be noticed that illiteracy is very definitely greater among males than among females. In 1931, 4.32 p.c. of the male population and 3.21 p.c. of the female population were recorded as unable to read or write, as compared with 5.73 p.c. and 4.43 p.c. respectively for 1921. Manitoba, Saskatchewan and Alberta, alone among the provinces, show a higher percentage of female illiteracy; this condition existed also in 1921, although the corresponding percentages for both males and females were then substantially greater, being: Manitoba, males 6.48, females 7.78; Saskatchewan, males 5.00, females 7.08; Alberta, males 4.62, females 5.92.

The figures show that New Brunswick is in the most unfavourable position, though there has been an improvement since 1921. No less than 6.91 p.c. of the population of that province—8.75 p.c. of the males and 4.97 p.c. of the females—could neither read nor write in 1931. For 1921 the figures were: total illiterate, 7.61 p.c.; males 9.24; females 5.90. On the other hand the province of Quebec, which in 1921 recorded the high percentage of 6.19 (7.84 males and 4.54 females) as illiterate, had reduced this proportion to 4.76 (6.21 males and 3.29 females) by 1931.

## 45.—Literacy of the Population of 10 Years of Age and Over, by Sexes and Provinces, 1931.

(Corresponding figures for 1921 are to be found in the 1924 Year Book, p. 131.)

| Province.                     | Popula-<br>tion<br>10 Years<br>and Over. | Can<br>Read<br>and<br>Write. | Can<br>Read<br>only. | Can<br>neither<br>Read nor<br>Write. | Percentages.                 |                      |                                      |
|-------------------------------|------------------------------------------|------------------------------|----------------------|--------------------------------------|------------------------------|----------------------|--------------------------------------|
|                               |                                          |                              |                      |                                      | Can<br>Read<br>and<br>Write. | Can<br>Read<br>only. | Can<br>neither<br>Read nor<br>Write. |
|                               | No.                                      | No.                          | No.                  | No.                                  | p.c.                         | p.c.                 | p.c.                                 |
| <b>Prince Edward Island—</b>  |                                          |                              |                      |                                      |                              |                      |                                      |
| Totals.....                   | 69,333                                   | 66,996                       | 502                  | 1,835                                | 96.63                        | 0.72                 | 2.65                                 |
| Males.....                    | 35,907                                   | 34,584                       | 213                  | 1,110                                | 96.32                        | 0.59                 | 3.09                                 |
| Females.....                  | 33,426                                   | 32,412                       | 289                  | 725                                  | 96.97                        | 0.86                 | 2.17                                 |
| <b>Nova Scotia—</b>           |                                          |                              |                      |                                      |                              |                      |                                      |
| Totals.....                   | 402,401                                  | 382,472                      | 2,790                | 17,139                               | 95.05                        | 0.69                 | 4.26                                 |
| Males.....                    | 207,098                                  | 195,465                      | 1,438                | 10,195                               | 94.38                        | 0.69                 | 4.92                                 |
| Females.....                  | 195,303                                  | 187,007                      | 1,352                | 6,944                                | 95.75                        | 0.69                 | 3.56                                 |
| <b>New Brunswick—</b>         |                                          |                              |                      |                                      |                              |                      |                                      |
| Totals.....                   | 310,316                                  | 286,676                      | 2,200                | 21,440                               | 92.38                        | 0.71                 | 6.91                                 |
| Males.....                    | 159,102                                  | 143,996                      | 1,181                | 13,925                               | 90.51                        | 0.74                 | 8.75                                 |
| Females.....                  | 151,214                                  | 142,680                      | 1,019                | 7,515                                | 94.36                        | 0.67                 | 4.97                                 |
| <b>Quebec—</b>                |                                          |                              |                      |                                      |                              |                      |                                      |
| Totals.....                   | 2,167,517                                | 2,048,778                    | 15,527               | 103,212                              | 94.52                        | 0.72                 | 4.76                                 |
| Males.....                    | 1,091,418                                | 1,014,259                    | 9,399                | 67,760                               | 92.93                        | 0.86                 | 6.21                                 |
| Females.....                  | 1,076,099                                | 1,034,519                    | 6,128                | 35,452                               | 96.14                        | 0.57                 | 3.29                                 |
| <b>Ontario—</b>               |                                          |                              |                      |                                      |                              |                      |                                      |
| Totals.....                   | 2,791,072                                | 2,719,558                    | 7,357                | 64,157                               | 97.44                        | 0.26                 | 2.30                                 |
| Males.....                    | 1,423,989                                | 1,381,104                    | 4,341                | 38,544                               | 96.99                        | 0.30                 | 2.71                                 |
| Females.....                  | 1,367,083                                | 1,338,454                    | 3,016                | 25,613                               | 97.91                        | 0.22                 | 1.87                                 |
| <b>Manitoba—</b>              |                                          |                              |                      |                                      |                              |                      |                                      |
| Totals.....                   | 557,806                                  | 530,779                      | 2,151                | 24,876                               | 95.15                        | 0.39                 | 4.46                                 |
| Males.....                    | 296,095                                  | 283,063                      | 1,040                | 11,992                               | 95.60                        | 0.35                 | 4.05                                 |
| Females.....                  | 261,711                                  | 247,716                      | 1,111                | 12,884                               | 94.65                        | 0.42                 | 4.92                                 |
| <b>Saskatchewan—</b>          |                                          |                              |                      |                                      |                              |                      |                                      |
| Totals.....                   | 705,350                                  | 672,812                      | 3,441                | 29,097                               | 95.39                        | 0.49                 | 4.13                                 |
| Males.....                    | 390,105                                  | 374,025                      | 1,791                | 14,289                               | 95.88                        | 0.46                 | 3.66                                 |
| Females.....                  | 315,245                                  | 298,787                      | 1,650                | 14,808                               | 94.78                        | 0.52                 | 4.70                                 |
| <b>Alberta—</b>               |                                          |                              |                      |                                      |                              |                      |                                      |
| Totals.....                   | 572,129                                  | 549,789                      | 2,671                | 19,669                               | 96.10                        | 0.47                 | 3.44                                 |
| Males.....                    | 319,840                                  | 308,619                      | 1,458                | 9,763                                | 96.49                        | 0.46                 | 3.05                                 |
| Females.....                  | 252,289                                  | 241,170                      | 1,213                | 9,906                                | 95.59                        | 0.48                 | 3.93                                 |
| <b>British Columbia—</b>      |                                          |                              |                      |                                      |                              |                      |                                      |
| Totals.....                   | 583,135                                  | 558,417                      | 1,630                | 23,088                               | 95.76                        | 0.28                 | 3.96                                 |
| Males.....                    | 328,983                                  | 314,134                      | 1,096                | 13,753                               | 95.49                        | 0.33                 | 4.18                                 |
| Females.....                  | 254,152                                  | 244,283                      | 534                  | 9,335                                | 96.12                        | 0.21                 | 3.67                                 |
| <b>Yukon—</b>                 |                                          |                              |                      |                                      |                              |                      |                                      |
| Totals.....                   | 3,542                                    | 2,710                        | 30                   | 802                                  | 76.51                        | 0.85                 | 22.64                                |
| Males.....                    | 2,475                                    | 2,063                        | 19                   | 393                                  | 83.35                        | 0.77                 | 15.88                                |
| Females.....                  | 1,067                                    | 647                          | 11                   | 409                                  | 60.64                        | 1.03                 | 38.33                                |
| <b>Northwest Territories—</b> |                                          |                              |                      |                                      |                              |                      |                                      |
| Totals.....                   | 7,021                                    | 2,832                        | 108                  | 4,081                                | 40.34                        | 1.54                 | 58.13                                |
| Males.....                    | 3,850                                    | 1,695                        | 62                   | 2,103                                | 44.03                        | 1.35                 | 54.62                                |
| Females.....                  | 3,171                                    | 1,137                        | 46                   | 1,978                                | 35.86                        | 1.77                 | 62.38                                |
| <b>Canada—</b>                |                                          |                              |                      |                                      |                              |                      |                                      |
| Totals.....                   | 8,169,622                                | 7,821,819                    | 38,407               | 309,396                              | 95.74                        | 0.47                 | 3.79                                 |
| Males.....                    | 4,258,862                                | 4,053,007                    | 22,028               | 183,827                              | 95.17                        | 0.52                 | 4.32                                 |
| Females.....                  | 3,910,760                                | 3,768,812                    | 16,379               | 125,569                              | 96.37                        | 0.42                 | 3.21                                 |

**Literacy among Urban Populations.**—Table 46 shows the literacy of persons residing in cities with populations of 30,000 and over in 1931. The final three columns give percentage figures for persons ten years of age and over, and a comparison with figures for 1921 shows that very definite changes have taken place in the literacy of urban populations. Toronto had, in 1921 as in 1931, a very low percentage of illiteracy—1.68 p.c. in 1921 and 1.26 p.c. in 1931—and the larger cities of Ontario, generally, made a comparatively good showing in 1921. Other large cities of Canada had, in 1921, fairly high percentages of illiteracy, the figures being: Montreal, 3.60 p.c.; Winnipeg, 3.54 p.c.; Vancouver, 3.54 p.c.; Quebec, 3.27 p.c.; Ottawa 2.69 p.c.; and Hamilton, 2.12 p.c. Comparison of 1921 figures\* with those for 1931 in Table 46 brings out the great improvement in the western cities. Marked betterment is evident throughout the list, but the exceptional progress in the west has put Three Rivers, Quebec, Montreal and Halifax in a relatively less favourable position as regards literacy. While Three Rivers has still the highest percentage of persons who can neither read nor write, the proportion has been reduced from 7.03 p.c. in 1921 to 3.45 p.c. in 1931.

The city of Saskatoon, Saskatchewan, had the lowest percentage of illiteracy in 1931, *viz.*, 0.71, London, Ontario, being next with 0.88 p.c. In the cities of Windsor, Ontario, and Regina, Saskatchewan, both of which had low percentages of illiterates in 1921 (1.53 p.c. and 1.44 p.c. respectively), slight increases to 1.78 p.c. and 1.68 p.c., respectively, are shown in 1931.

\*See p. 133 of the 1924 Year Book.

**46.—Literacy of the Populations of 10 Years of Age and Over in Cities and Towns of 30,000 and Over, by Numbers and Percentages, 1931.**

(Corresponding figures for 1921 are to be found in the 1924 Year Book, p. 133.)

| City or Town.     | Total<br>Popula-<br>tion. | Ten<br>Years<br>and<br>Over. | Numbers<br>10 Years and Over. |                      |                                         | Percentages<br>10 Years and Over. |                      |                                         |
|-------------------|---------------------------|------------------------------|-------------------------------|----------------------|-----------------------------------------|-----------------------------------|----------------------|-----------------------------------------|
|                   |                           |                              | Can<br>Read and<br>Write.     | Can<br>Read<br>only. | Can<br>neither<br>Read<br>nor<br>Write. | Can<br>Read<br>and<br>Write.      | Can<br>Read<br>only. | Can<br>neither<br>Read<br>nor<br>Write. |
|                   | No.                       | No.                          | No.                           | No.                  | No.                                     | p.c.                              | p.c.                 | p.c.                                    |
| Montreal.....     | 818,577                   | 654,094                      | 635,811                       | 2,508                | 15,775                                  | 97.20                             | 0.38                 | 2.41                                    |
| Toronto.....      | 631,207                   | 535,327                      | 527,465                       | 1,099                | 6,763                                   | 98.53                             | 0.21                 | 1.26                                    |
| Vancouver.....    | 246,593                   | 212,413                      | 208,754                       | 296                  | 3,363                                   | 98.28                             | 0.14                 | 1.58                                    |
| Winnipeg.....     | 218,785                   | 185,534                      | 181,305                       | 541                  | 3,688                                   | 97.72                             | 0.29                 | 1.99                                    |
| Hamilton.....     | 155,547                   | 127,891                      | 125,668                       | 177                  | 2,046                                   | 98.26                             | 0.14                 | 1.60                                    |
| Quebec.....       | 130,594                   | 100,203                      | 97,161                        | 502                  | 2,540                                   | 96.96                             | 0.50                 | 2.53                                    |
| Ottawa.....       | 126,872                   | 104,588                      | 102,257                       | 246                  | 2,085                                   | 97.77                             | 0.24                 | 1.99                                    |
| Calgary.....      | 83,761                    | 70,512                       | 69,626                        | 148                  | 738                                     | 98.74                             | 0.21                 | 1.05                                    |
| Edmonton.....     | 79,197                    | 65,101                       | 63,980                        | 213                  | 908                                     | 98.28                             | 0.33                 | 1.39                                    |
| London.....       | 71,148                    | 60,203                       | 59,646                        | 30                   | 527                                     | 99.07                             | 0.05                 | 0.88                                    |
| Windsor.....      | 63,108                    | 50,623                       | 49,606                        | 118                  | 899                                     | 97.99                             | 0.23                 | 1.78                                    |
| Verdun.....       | 60,745                    | 46,818                       | 46,232                        | 98                   | 488                                     | 98.75                             | 0.21                 | 1.04                                    |
| Halifax.....      | 59,275                    | 47,725                       | 46,468                        | 137                  | 1,120                                   | 97.37                             | 0.29                 | 2.35                                    |
| Regina.....       | 53,209                    | 43,161                       | 42,319                        | 116                  | 726                                     | 98.05                             | 0.27                 | 1.68                                    |
| Saint John.....   | 47,514                    | 38,729                       | 38,149                        | 69                   | 511                                     | 98.50                             | 0.18                 | 1.32                                    |
| Saskatoon.....    | 43,291                    | 35,514                       | 35,212                        | 49                   | 253                                     | 99.15                             | 0.14                 | 0.71                                    |
| Victoria.....     | 39,082                    | 34,511                       | 34,111                        | 30                   | 370                                     | 98.84                             | 0.09                 | 1.07                                    |
| Three Rivers..... | 35,450                    | 26,079                       | 25,053                        | 125                  | 901                                     | 96.07                             | 0.48                 | 3.45                                    |
| Kitchener.....    | 30,793                    | 24,954                       | 24,618                        | 39                   | 297                                     | 98.65                             | 0.16                 | 1.19                                    |
| Brantford.....    | 30,107                    | 25,069                       | 24,562                        | 50                   | 457                                     | 97.98                             | 0.20                 | 1.82                                    |



## Section 12.—School Attendance.

The census statistics of school attendance for the population between the ages of 5 and 19 years are presented for 1911, 1921 and 1931 in Table 47 for Canada as a whole. In comparing the statistics of school attendance for the Census of 1931 with those of 1921 and 1911, it is necessary to take into account the fact that in 1931 and 1921, the question as to school attendance covered the nine months ended May 31, while in 1911 the question covered the calendar year 1910. For this reason the figures are not quite comparable, although the general trends as shown by the percentages in the lower part of the table are probably not materially affected.

In 1931 the population of school age, 5-19 years, numbered 3,246,391 or 31.3 p.c. of the total population, as compared with 31.4 p.c. in 1921 and 30.0 p.c. in 1911. The proportion of the total group 5-19 years actually in attendance at school shows progress. In 1911 only 52.88 p.c. of the population of this age were in attendance at school; the proportion rose to 61.33 p.c. in 1921 and 65.59 p.c. in 1931. The proportion of males between these ages attending school increased from 52.15 p.c. in 1911 to 60.80 p.c. in 1921 and 65.12 p.c. in 1931; that of females from 53.63 p.c. in 1911 to 61.86 p.c. in 1921 and 66.08 p.c. in 1931.

Table 48 gives the school attendance by provinces for the rural and urban populations, classified by sex and months at school. Table 49, giving the school attendance of Canadian born, British born and foreign born, shows that, of the 1,755,348 children 7 to 14 years of age in Canada (Territories excluded), 93.09 p.c. attended school. The "not at school" was largest for the foreign born with 7.81 p.c. followed by the Canadian born with 6.97 p.c. and British born with 3.95 p.c.

**47.—Numerical and Percentage Distributions of School Attendance of the Population 5-19 Years of Age Inclusive, by Sexes, for all Canada,<sup>1</sup> 1911, 1921 and 1931.**

## NUMERICAL DISTRIBUTION.

| Item.                          | Both Sexes.      |                  |                  | Males.           |                  |                  | Females.         |                  |                  |
|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                | 1911.            | 1921.            | 1931.            | 1911.            | 1921.            | 1931.            | 1911.            | 1921.            | 1931.            |
|                                | No.              | No.              | No.              | No.              | No.              | No.              | No.              | No.              | No.              |
| <b>5-9 years—Totals</b>        | <b>783,252</b>   | <b>1,048,694</b> | <b>1,132,749</b> | <b>395,045</b>   | <b>528,663</b>   | <b>572,507</b>   | <b>388,207</b>   | <b>520,031</b>   | <b>560,242</b>   |
| At school.....                 | 459,682          | 686,614          | 777,235          | 232,581          | 345,494          | 391,322          | 227,101          | 341,120          | 385,913          |
| Not at school..                | 323,570          | 362,080          | 355,514          | 162,464          | 183,169          | 181,185          | 161,106          | 178,911          | 174,329          |
| <b>10-19 years—Totals.....</b> | <b>1,380,685</b> | <b>1,714,867</b> | <b>2,113,642</b> | <b>706,155</b>   | <b>864,517</b>   | <b>1,068,180</b> | <b>674,530</b>   | <b>850,350</b>   | <b>1,045,462</b> |
| At school.....                 | 684,599          | 1,008,177        | 1,352,217        | 341,745          | 501,520          | 677,059          | 342,854          | 506,657          | 675,158          |
| Not at school..                | 696,086          | 706,690          | 761,425          | 364,410          | 362,997          | 391,121          | 331,676          | 343,693          | 370,304          |
| <b>5-19 years—Totals.....</b>  | <b>2,163,937</b> | <b>2,763,561</b> | <b>3,246,391</b> | <b>1,101,200</b> | <b>1,393,180</b> | <b>1,640,687</b> | <b>1,062,737</b> | <b>1,370,381</b> | <b>1,605,704</b> |
| At school.....                 | 1,144,281        | 1,694,791        | 2,129,452        | 574,326          | 847,014          | 1,068,381        | 569,955          | 847,777          | 1,061,071        |
| Under 1 month                  |                  |                  | 1,024            |                  |                  | 492              |                  |                  | 532              |
| 1-3 months...                  | 42,514           | 72,543           | 45,652           | 21,904           | 36,595           | 22,678           | 20,610           | 35,948           | 22,974           |
| 4-6 " ..                       | 131,343          | 133,417          | 67,987           | 68,468           | 68,077           | 34,521           | 62,875           | 65,340           | 33,466           |
| 7-9 " ..                       | 970,424          | 1,488,831        | 2,014,789        | 483,954          | 742,342          | 1,010,690        | 486,470          | 746,489          | 1,004,099        |
| Not at school..                | 1,019,656        | 1,068,770        | 1,116,939        | 526,874          | 546,166          | 572,306          | 492,782          | 522,604          | 544,633          |

<sup>1</sup>Including populations 5-19 years of age of Yukon and the Northwest Territories.

**47.—Numerical and Percentage Distribution of School Attendance of the Population 5-19 Years of Age Inclusive, by Sexes, for all Canada, 1911, 1921 and 1931—concluded.**

PERCENTAGE DISTRIBUTION.

| Item.               | Both Sexes. |       |       |                             | Males. |       |       |                             | Females. |       |       |                             |
|---------------------|-------------|-------|-------|-----------------------------|--------|-------|-------|-----------------------------|----------|-------|-------|-----------------------------|
|                     | 1911.       | 1921. | 1931. | In-crease<br>1921-<br>1931. | 1911.  | 1921. | 1931. | In-crease<br>1921-<br>1931. | 1911.    | 1921. | 1931. | In-crease<br>1921-<br>1931. |
|                     | p.c.        | p.c.  | p.c.  | p.c.                        | p.c.   | p.c.  | p.c.  | p.c.                        | p.c.     | p.c.  | p.c.  | p.c.                        |
| <b>5-9 years—</b>   |             |       |       |                             |        |       |       |                             |          |       |       |                             |
| At school.....      | 58.69       | 65.47 | 68.61 | +3.14                       | 58.87  | 65.35 | 68.35 | +3.00                       | 58.50    | 65.60 | 68.88 | +3.28                       |
| Not at school..     | 41.31       | 34.53 | 31.39 | -3.14                       | 41.13  | 34.65 | 31.65 | -3.00                       | 41.50    | 34.40 | 31.12 | -3.28                       |
| <b>10-19 years—</b> |             |       |       |                             |        |       |       |                             |          |       |       |                             |
| At school.....      | 49.58       | 58.79 | 63.98 | +5.19                       | 48.40  | 58.01 | 63.38 | +5.37                       | 50.83    | 59.58 | 64.58 | +5.00                       |
| Not at school..     | 50.42       | 41.21 | 36.02 | -5.19                       | 51.60  | 41.99 | 36.62 | -5.37                       | 49.17    | 40.42 | 35.42 | -5.00                       |
| <b>5-19 years—</b>  |             |       |       |                             |        |       |       |                             |          |       |       |                             |
| At school.....      | 52.88       | 61.33 | 65.59 | +4.26                       | 52.15  | 60.80 | 65.12 | +4.32                       | 53.63    | 61.86 | 66.08 | +4.22                       |
| Under 1 month       | 1.97        | 2.62  | 0.03  | -                           | 1.99   | 2.63  | 0.03  | -                           | 1.94     | 2.62  | 0.03  | -                           |
| 1-3 months ..       |             |       | 1.41  | -                           |        |       | 1.38  | -                           |          |       | 1.43  | -                           |
| 4-6 " ...           | 6.07        | 4.83  | 2.09  | -2.74                       | 6.22   | 4.89  | 2.10  | -2.79                       | 5.92     | 4.77  | 2.08  | -2.19                       |
| 7-9 " ...           | 44.84       | 53.87 | 62.06 | +8.19                       | 43.94  | 53.28 | 61.60 | +8.32                       | 45.77    | 54.47 | 62.53 | +8.69                       |
| Not at school..     | 47.12       | 38.67 | 34.41 | -4.26                       | 47.85  | 39.20 | 34.88 | -4.32                       | 46.37    | 38.14 | 33.92 | -4.06                       |

<sup>1</sup>Including population 5-19 years of age of Yukon and the Northwest Territories.

**48.—Total Rural and Urban Populations of All Ages Attending School, by Sex, 1931.**

| Item.                                      | Both Sexes.      |                  |                  | Males.           |                |                | Females.         |                |                |
|--------------------------------------------|------------------|------------------|------------------|------------------|----------------|----------------|------------------|----------------|----------------|
|                                            | Total.           | Rural.           | Urban.           | Total.           | Rural.         | Urban.         | Total.           | Rural.         | Urban.         |
| Length of time at school—                  |                  |                  |                  |                  |                |                |                  |                |                |
| Under 1 month.....                         | 1,045            | 800              | 245              | 503              | 385            | 118            | 542              | 415            | 127            |
| 1-3 months.....                            | 46,292           | 36,158           | 10,134           | 23,028           | 18,257         | 4,771          | 23,264           | 17,901         | 5,363          |
| 4-6 months.....                            | 69,410           | 47,948           | 21,462           | 35,369           | 24,974         | 10,395         | 34,041           | 22,974         | 11,067         |
| 7-9 months.....                            | 2,042,714        | 926,271          | 1,116,443        | 1,029,186        | 468,672        | 565,514        | 1,013,528        | 462,599        | 550,929        |
| <b>Totals, Population Attending School</b> | <b>2,159,461</b> | <b>1,011,177</b> | <b>1,148,284</b> | <b>1,088,086</b> | <b>507,288</b> | <b>580,798</b> | <b>1,071,375</b> | <b>503,889</b> | <b>567,486</b> |

# 49.—Numerical and Percentage Distributions of the School Attendance of the Population of Canada,<sup>1</sup> 7-14 Years of Age, by Nativity and Sex, 1931.

## NUMERICAL DISTRIBUTION.

| Item.                                                   | Both Sexes.    |               |               | Males.         |               |               | Females.       |               |               |
|---------------------------------------------------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|
|                                                         | Canadian Born. | British Born. | Foreign Born. | Canadian Born. | British Born. | Foreign Born. | Canadian Born. | British Born. | Foreign Born. |
| Totals, Population 7-14 years of age <sup>1</sup> ..... | 1,647,683      | 49,639        | 58,026        | 831,418        | 25,304        | 29,892        | 816,265        | 24,335        | 28,134        |
| At school.....                                          | 1,532,894      | 47,678        | 53,497        | 774,314        | 24,278        | 27,560        | 758,580        | 23,400        | 25,937        |
| Under 1 month.....                                      | 378            | 17            | 25            | 186            | 11            | 11            | 192            | 6             | 14            |
| 1-3 months.....                                         | 17,101         | 446           | 1,054         | 8,406          | 214           | 548           | 8,695          | 232           | 506           |
| 4-6 months.....                                         | 40,554         | 899           | 1,962         | 20,491         | 467           | 1,036         | 20,063         | 432           | 926           |
| 7-9 months.....                                         | 1,474,861      | 46,316        | 50,456        | 745,231        | 23,586        | 25,965        | 729,630        | 22,730        | 24,491        |
| Not at school.....                                      | 114,789        | 1,961         | 4,529         | 57,104         | 1,026         | 2,332         | 57,685         | 935           | 2,197         |

## PERCENTAGE DISTRIBUTION.

| Item.                                                   | 100-00 | 100-00 | 100-00 | 100-00 | 100-00 | 100-00 | 100-00 | 100-00 | 100-00 |
|---------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Totals, Population 7-14 years of age <sup>1</sup> ..... | 100-00 | 100-00 | 100-00 | 100-00 | 100-00 | 100-00 | 100-00 | 100-00 | 100-00 |
| At school.....                                          | 93-03  | 96-05  | 92-19  | 93-13  | 95-95  | 92-20  | 92-93  | 96-16  | 92-19  |
| Under 1 month.....                                      | 0-02   | 0-03   | 0-04   | 0-02   | 0-04   | 0-04   | 0-02   | 0-02   | 0-05   |
| 1-3 months.....                                         | 1-04   | 0-90   | 1-82   | 1-01   | 0-85   | 1-83   | 1-07   | 0-95   | 1-80   |
| 4-6 months.....                                         | 2-46   | 1-81   | 3-38   | 2-46   | 1-85   | 3-47   | 2-46   | 1-78   | 3-29   |
| 7-9 months.....                                         | 89-51  | 93-31  | 86-95  | 89-63  | 93-21  | 86-86  | 89-39  | 93-40  | 87-05  |
| Not at school.....                                      | 6-97   | 3-95   | 7-81   | 6-87   | 4-05   | 7-80   | 7-07   | 3-84   | 7-81   |

<sup>1</sup>Exclusive of Yukon and the Northwest Territories.

## Section 13.—Annual Estimates of Population.

While the populations in different countries are actually counted at decennial or quinquennial censuses, annual estimates of populations are required by modern States for many purposes, such as the calculation of birth, death and marriage rates, and of per capita figures of production, trade, finance, consumption, etc. In different countries various methods of obtaining annual figures of post-censal populations are adopted. For example, it is possible, with good vital statistics and records of arrivals and departures, to obtain the actual population at any particular date with approximate accuracy by the simple method of adding births and arrivals and subtracting deaths and departures during the period elapsed since the census. This method is impracticable for Canada, on account of her 4,000 miles of common boundary line with the United States, crossed every day by many thousands of people in both directions. In almost all civilized countries, the actual methods of making the estimates vary. Thus, the method of arithmetical progression is widely used in estimating the populations in the older countries of the world; this method involves the annual addition to the population of the country and of particular areas within it of one-fifth or one-tenth of the numerical increase in the last quinquennial or decennial inter-censal period. In the case of Canada annual figures of population have been purely estimates, made on the basis of past increases, prior to the Census of 1931. They have now been worked out on a basis which takes into consideration collateral data back to 1867, and the resulting figures are believed to more accurately state the populations at inter-censal periods than any before published.

The new method upon which calculations are based was described at pp. 108-109 of the 1932 Year Book.\*

\*The table of estimates on p. 164 and the description of the method upon which calculations are based are the work of M. C. MacLean, M.A., F.S.S., Chief of Census Analysis, Dominion Bureau of Statistics.

### 50.—Estimates of the Populations of Canada for Inter-Censal Years, by Provinces, 1867-1934.

NOTE.—At every census the previous post-censal data are adjusted to the newly recorded population figure. (000's omitted.)

| Year. | Can-<br>ada. | P.E.<br>Is-<br>land. | N.S. | N.B. | Que.  | Ont.  | Man. | Sask. | Alta. | B.C. | Yu-<br>kon. | N.W.<br>Terri-<br>tories. |
|-------|--------------|----------------------|------|------|-------|-------|------|-------|-------|------|-------------|---------------------------|
|       | No.          | No.                  | No.  | No.  | No.   | No.   | No.  | No.   | No.   | No.  | No.         | No.                       |
| 1867  | 3,463        | 88                   | 364  | 271  | 1,123 | 1,525 | 15   | -     | -     | 32   | -           | 45                        |
| 1868  | 3,511        | 90                   | 369  | 274  | 1,137 | 1,545 | 17   | -     | -     | 33   | -           | 46                        |
| 1869  | 3,565        | 91                   | 374  | 277  | 1,154 | 1,569 | 20   | -     | -     | 34   | -           | 46                        |
| 1870  | 3,625        | 92                   | 381  | 282  | 1,171 | 1,594 | 22   | -     | -     | 36   | -           | 47                        |
| 1871  | 3,689        | 94                   | 388  | 286  | 1,191 | 1,621 | 25   | -     | -     | 36   | -           | 48                        |
| 1872  | 3,754        | 96                   | 394  | 296  | 1,208 | 1,651 | 29   | -     | -     | 37   | -           | 49                        |
| 1873  | 3,826        | 98                   | 400  | 294  | 1,227 | 1,685 | 33   | -     | -     | 39   | -           | 50                        |
| 1874  | 3,895        | 99                   | 406  | 298  | 1,246 | 1,718 | 37   | -     | -     | 40   | -           | 51                        |
| 1875  | 3,954        | 101                  | 411  | 301  | 1,260 | 1,746 | 41   | -     | -     | 42   | -           | 52                        |
| 1876  | 4,009        | 102                  | 415  | 304  | 1,275 | 1,774 | 44   | -     | -     | 43   | -           | 52                        |
| 1877  | 4,064        | 103                  | 420  | 307  | 1,289 | 1,802 | 47   | -     | -     | 44   | -           | 52                        |
| 1878  | 4,120        | 104                  | 425  | 310  | 1,304 | 1,826 | 50   | -     | -     | 45   | -           | 53                        |
| 1879  | 4,185        | 105                  | 430  | 313  | 1,322 | 1,861 | 54   | -     | -     | 46   | -           | 54                        |
| 1880  | 4,255        | 107                  | 435  | 317  | 1,341 | 1,894 | 58   | -     | -     | 48   | -           | 55                        |
| 1881  | 4,325        | 109                  | 441  | 321  | 1,360 | 1,927 | 62   | -     | -     | 49   | -           | 56                        |
| 1882  | 4,375        | 109                  | 442  | 321  | 1,372 | 1,946 | 71   | -     | -     | 54   | -           | 60                        |
| 1883  | 4,430        | 109                  | 443  | 321  | 1,386 | 1,968 | 80   | -     | -     | 59   | -           | 64                        |
| 1884  | 4,487        | 109                  | 445  | 321  | 1,401 | 1,988 | 99   | -     | -     | 64   | -           | 69                        |
| 1885  | 4,537        | 109                  | 446  | 321  | 1,414 | 2,005 | 99   | -     | -     | 60   | -           | 74                        |
| 1886  | 4,580        | 109                  | 446  | 321  | 1,424 | 2,020 | 108  | -     | -     | 74   | -           | 78                        |
| 1887  | 4,626        | 109                  | 446  | 321  | 1,436 | 2,037 | 117  | -     | -     | 78   | -           | 82                        |
| 1888  | 4,678        | 109                  | 447  | 321  | 1,446 | 2,057 | 126  | -     | -     | 83   | -           | 86                        |
| 1889  | 4,729        | 109                  | 448  | 321  | 1,462 | 2,075 | 135  | -     | -     | 88   | -           | 91                        |
| 1890  | 4,779        | 109                  | 449  | 321  | 1,475 | 2,093 | 144  | -     | -     | 93   | -           | 95                        |
| 1891  | 4,833        | 109                  | 450  | 321  | 1,489 | 2,114 | 153  | -     | -     | 98   | -           | 99                        |
| 1892  | 4,883        | 108                  | 451  | 322  | 1,504 | 2,119 | 163  | -     | -     | 106  | -           | 110                       |
| 1893  | 4,931        | 108                  | 452  | 323  | 1,518 | 2,122 | 173  | -     | -     | 114  | -           | 121                       |
| 1894  | 4,979        | 107                  | 452  | 323  | 1,532 | 2,128 | 183  | -     | -     | 122  | -           | 132                       |
| 1895  | 5,026        | 106                  | 452  | 323  | 1,546 | 2,133 | 193  | -     | -     | 130  | -           | 143                       |
| 1896  | 5,074        | 105                  | 453  | 324  | 1,560 | 2,137 | 203  | -     | -     | 138  | -           | 154                       |
| 1897  | 5,122        | 104                  | 454  | 325  | 1,575 | 2,142 | 213  | -     | -     | 146  | -           | 163                       |
| 1898  | 5,175        | 104                  | 455  | 326  | 1,591 | 2,149 | 223  | -     | -     | 154  | -           | 173                       |
| 1899  | 5,235        | 103                  | 457  | 327  | 1,610 | 2,159 | 234  | -     | -     | 162  | -           | 183                       |
| 1900  | 5,301        | 103                  | 459  | 329  | 1,630 | 2,172 | 245  | -     | -     | 170  | -           | 193                       |
| 1901  | 5,371        | 103                  | 460  | 331  | 1,649 | 2,183 | 255  | 91    | 73    | 179  | 27          | 20                        |
| 1902  | 5,494        | 101                  | 459  | 331  | 1,670 | 2,194 | 275  | 125   | 98    | 199  | 25          | 19                        |
| 1903  | 5,651        | 100                  | 460  | 331  | 1,709 | 2,217 | 296  | 159   | 119   | 220  | 23          | 17                        |
| 1904  | 5,827        | 99                   | 463  | 333  | 1,752 | 2,246 | 318  | 194   | 142   | 242  | 22          | 16                        |
| 1905  | 6,002        | 99                   | 464  | 333  | 1,771 | 2,289 | 344  | 236   | 166   | 264  | 21          | 15                        |
| 1906  | 6,197        | 96                   | 465  | 334  | 1,784 | 2,299 | 366  | 258   | 185   | 279  | 18          | 13                        |
| 1907  | 6,411        | 96                   | 475  | 341  | 1,853 | 2,365 | 395  | 311   | 236   | 309  | 18          | 12                        |
| 1908  | 6,625        | 95                   | 480  | 345  | 1,902 | 2,412 | 413  | 356   | 266   | 330  | 15          | 11                        |
| 1909  | 6,800        | 94                   | 483  | 346  | 1,931 | 2,444 | 427  | 401   | 301   | 350  | 13          | 10                        |
| 1910  | 6,988        | 94                   | 486  | 348  | 1,965 | 2,481 | 441  | 446   | 336   | 376  | 11          | 9                         |
| 1911  | 7,207        | 94                   | 492  | 352  | 2,006 | 2,527 | 461  | 492   | 374   | 393  | 9           | 7                         |
| 1912  | 7,389        | 94                   | 496  | 356  | 2,042 | 2,572 | 481  | 525   | 406   | 407  | 9           | 7                         |
| 1913  | 7,632        | 94                   | 504  | 363  | 2,096 | 2,639 | 505  | 563   | 425   | 424  | 8           | 7                         |
| 1914  | 7,875        | 95                   | 512  | 371  | 2,148 | 2,705 | 530  | 601   | 459   | 442  | 8           | 8                         |
| 1915  | 7,981        | 94                   | 511  | 371  | 2,162 | 2,724 | 545  | 628   | 480   | 450  | 8           | 8                         |
| 1916  | 8,001        | 92                   | 505  | 368  | 2,154 | 2,713 | 554  | 648   | 496   | 456  | 7           | 8                         |
| 1917  | 8,060        | 90                   | 503  | 368  | 2,169 | 2,724 | 558  | 662   | 508   | 464  | 6           | 8                         |
| 1918  | 8,148        | 89                   | 502  | 366  | 2,191 | 2,744 | 565  | 678   | 522   | 474  | 6           | 8                         |
| 1919  | 8,311        | 89                   | 507  | 373  | 2,234 | 2,789 | 577  | 700   | 541   | 488  | 5           | 8                         |
| 1920  | 8,556        | 89                   | 516  | 381  | 2,299 | 2,863 | 594  | 729   | 565   | 507  | 5           | 8                         |
| 1921  | 8,788        | 89                   | 524  | 388  | 2,361 | 2,934 | 610  | 757   | 588   | 525  | 4           | 8                         |
| 1922  | 8,915        | 89                   | 522  | 389  | 2,406 | 2,980 | 616  | 769   | 592   | 541  | 4           | 8                         |
| 1923  | 9,010        | 87                   | 518  | 389  | 2,446 | 3,013 | 619  | 778   | 593   | 555  | 4           | 8                         |
| 1924  | 9,143        | 86                   | 516  | 391  | 2,495 | 3,059 | 625  | 791   | 597   | 571  | 4           | 8                         |
| 1925  | 9,294        | 86                   | 515  | 393  | 2,549 | 3,111 | 632  | 806   | 602   | 588  | 4           | 8                         |
| 1926  | 9,451        | 87                   | 515  | 396  | 2,603 | 3,164 | 639  | 821   | 608   | 606  | 4           | 8                         |
| 1927  | 9,636        | 87                   | 515  | 398  | 2,657 | 3,219 | 651  | 841   | 633   | 623  | 4           | 8                         |
| 1928  | 9,835        | 88                   | 515  | 401  | 2,715 | 3,278 | 664  | 862   | 658   | 641  | 4           | 9                         |
| 1929  | 10,029       | 88                   | 515  | 404  | 2,772 | 3,334 | 677  | 883   | 684   | 659  | 4           | 9                         |
| 1930  | 10,208       | 88                   | 514  | 406  | 2,825 | 3,386 | 689  | 903   | 708   | 676  | 4           | 9                         |
| 1931  | 10,377       | 88                   | 513  | 408  | 2,874 | 3,432 | 700  | 922   | 732   | 694  | 4           | 9                         |
| 1932  | 10,506       | 88                   | 513  | 409  | 2,904 | 3,459 | 705  | 921   | 740   | 704  | 4           | 9                         |
| 1933  | 10,681       | 89                   | 522  | 420  | 2,970 | 3,524 | 722  | 951   | 757   | 712  | 4           | 10                        |
| 1934  | 10,835       | 89                   | 526  | 426  | 3,032 | 3,566 | 731  | 966   | 770   | 725  | 4           | 10                        |

<sup>1</sup>These estimates are subject to adjustment as later data is made available.



## Section 14.—Area and Population of the British Empire.

Since the War the boundaries of the British Empire have been contracted by the voluntary retirement from Egypt in 1922 and expanded by the addition of various territories under mandate as a result of the Treaty of Versailles. The increases of territory were mainly in Africa, where the Tanganyika Territory, Southwest Africa, and portions of the Cameroons and Togoland, with an aggregate area of 736,000 square miles and an estimated population of over 5,000,000 (1921) came under Empire control. In Asia, the territories acquired by mandate from the League of Nations include Palestine and Transjordan, with 1,335,821 inhabitants on an area of 25,802 square miles. In the Pacific, the territories added to the Empire include Western Samoa, the Territory of New Guinea, the Bismarck archipelago and part of the Solomon islands, all of which were formerly German possessions. According to the most reliable estimates, the total area of these regions is 92,141 square miles and the population 445,650.

Statistics of the areas and populations of the territories included in the British Empire in 1931 are given in Table 51, together with comparative figures of population for 1921 and 1911.

### 51.—Area and Population of the British Empire, by Continents and Countries, 1911, 1921 and 1931.

NOTE.—The source of the following figures is the "Statistical Abstract for the British Empire, 1931" except in the case of Canada, where the data are the latest census figures, and Transjordan, see footnote 23. Totals have been adjusted as far as possible.

| Country or Continent.                       | Area in<br>Square Miles. | Populations.            |                            |                         |
|---------------------------------------------|--------------------------|-------------------------|----------------------------|-------------------------|
|                                             |                          | Census of<br>1911.      | Census of<br>1921.         | Census of<br>1931.      |
| <b>Summary by Continents.</b>               |                          |                         |                            |                         |
| Europe.....                                 | 120,791                  | 45,549,583              | 47,443,549                 | 49,369,087              |
| Asia.....                                   | 1,988,429                | 323,386,386             | 329,361,760                | 364,566,164             |
| Africa.....                                 | 3,833,275                | 38,244,040              | 49,783,112                 | 56,447,532              |
| North and Central America and West Indies.. | 3,991,262                | 9,197,207               | 10,845,161                 | 12,760,033              |
| South America.....                          | 95,098                   | 299,316                 | 301,122                    | 314,034                 |
| Oceania.....                                | 3,288,928                | 6,187,152               | 7,331,210                  | 9,013,298               |
| <b>Totals (approx.)<sup>29, 30</sup></b>    | <b>13,318,000</b>        | <b>422,863,684</b>      | <b>445,065,914</b>         | <b>492,470,148</b>      |
| <b>Details by Countries.</b>                |                          |                         |                            |                         |
| United Kingdom.....                         | 93,991                   | 45,222,000 <sup>1</sup> | 47,123,000 <sup>1, 2</sup> | 46,042,000 <sup>2</sup> |
| Self-governing Dominions—                   |                          |                         |                            |                         |
| Canada.....                                 | 3,694,900 <sup>3</sup>   | 7,206,643               | 8,787,949                  | 10,376,786              |
| Australia <sup>4</sup> .....                | 2,974,581                | 4,455,005               | 5,435,734                  | 6,448,707 <sup>5</sup>  |
| New Zealand <sup>5</sup> .....              | 103,415                  | 1,008,468               | 1,218,913                  | 1,442,746 <sup>6</sup>  |
| Union of South Africa.....                  | 471,917                  | 5,973,394               | 6,928,580                  | 8,132,600 <sup>17</sup> |
| Irish Free State <sup>7</sup> .....         | 26,601                   | 3,139,688 <sup>7</sup>  | 2,971,992 <sup>7</sup>     | 2,957,000 <sup>6</sup>  |
| Newfoundland (including Labrador).....      | 275,134                  | 242,619                 | 263,033                    | 281,549 <sup>8</sup>    |
| Labrador.....                               | 232,400                  | 3,949                   | 3,774                      | 4,264 <sup>9</sup>      |
| India—                                      |                          |                         |                            |                         |
| Provinces.....                              | 1,094,220                | 244,221,377             | 246,946,793                | 270,561,353             |
| States and Agencies.....                    | 711,032                  | 70,888,854              | 71,939,187                 | 80,838,527              |
| <b>Totals, India.....</b>                   | <b>1,805,252</b>         | <b>315,110,231</b>      | <b>318,885,980</b>         | <b>351,399,880</b>      |
| Jersey.....                                 | 45                       | 51,898                  | 49,701                     | 50,455                  |
| Guernsey and adjacent islands.....          | 30                       | 45,001                  | 40,529                     | 42,606                  |
| Gibraltar <sup>8</sup> .....                | 1.9                      | 19,120                  | 18,061                     | 17,405                  |
| Malta <sup>8</sup> .....                    | 122                      | 211,564                 | 212,258                    | 241,621                 |
| Cyprus <sup>9, 10</sup> .....               | 3,584                    | 273,964                 | 310,469                    | 347,959                 |
| Gambia.....                                 | 4,002                    | 146,101                 | 210,530                    | 199,520                 |
| Sierra Leone.....                           | 31,000                   | 1,403,132               | 1,541,311                  | 1,672,057               |
| Gold Coast <sup>11</sup> .....              | 78,450                   | 1,503,911               | 2,110,454                  | 2,869,750               |
| Nigeria <sup>11</sup> .....                 | 338,438                  | 17,126,983              | 18,631,442 <sup>12</sup>   | 19,158,338              |
| Ascension.....                              | 34                       | 400 <sup>6</sup>        | 250 <sup>6</sup>           | 158                     |
| St. Helena <sup>8</sup> .....               | 47                       | 3,477                   | 3,666 <sup>6</sup>         | 3,995                   |

**51.—Area and Population of the British Empire, by Continents and Countries, 1911, 1921 and 1931—continued.**

| Country.                                            | Area in<br>Square Miles. | Populations.            |                           |                         |
|-----------------------------------------------------|--------------------------|-------------------------|---------------------------|-------------------------|
|                                                     |                          | Census of<br>1911.      | Census of<br>1921.        | Census of<br>1931.      |
| Details by Countries—continued.                     |                          |                         |                           |                         |
| Southern Rhodesia.....                              | 150,344                  | 771,077                 | 899,187                   | 1,109,012               |
| Northern Rhodesia.....                              | 287,950                  | 822,482 <sup>13</sup>   | 983,539                   | 1,345,075               |
| Bechuanaland Protectorate.....                      | 275,000                  | 125,350                 | 152,983                   | —                       |
| Basutoland.....                                     | 11,716                   | 404,507                 | 498,781                   | 650,000 <sup>6</sup>    |
| Swaziland.....                                      | 6,704                    | 99,959                  | 106,961                   | 125,055 <sup>6</sup>    |
| Zanzibar Protectorate.....                          | 1,020                    | 197,200 <sup>6</sup>    | 209,214 <sup>6</sup>      | 235,428                 |
| Kenya.....                                          | 221,089                  | 2,402,863 <sup>14</sup> | 2,574,006 <sup>13</sup>   | 3,040,940 <sup>13</sup> |
| Uganda Protectorate.....                            | 94,204 <sup>15</sup>     | 2,843,325               | 2,921,608 <sup>13</sup>   | 3,553,534 <sup>6</sup>  |
| Nyasaland Protectorate.....                         | 47,949 <sup>16</sup>     | 970,430                 | 1,201,983                 | 1,603,454               |
| Somaliland Protectorate.....                        | 68,000                   | 344,323                 | 347,000 <sup>6</sup>      | 344,700 <sup>6</sup>    |
| Mauritius.....                                      | 720                      | 368,791 <sup>9</sup>    | 376,485 <sup>9</sup>      | 393,238                 |
| Dependencies of Mauritius.....                      | 89                       | 6,690                   | 8,394                     | 9,659                   |
| Seychelles.....                                     | 156                      | 22,691                  | 24,523                    | 27,444                  |
| Aden (including Perim).....                         | 80                       | 46,165                  | 56,500                    | 50,809                  |
| Socotra.....                                        | 1,382                    | 12,000 <sup>6</sup>     | 12,000 <sup>6</sup>       | 12,000 <sup>6</sup>     |
| British Malaya—                                     |                          |                         |                           |                         |
| Straits Settlements <sup>18</sup> .....             | 1,531                    | 714,069                 | 883,769                   | 1,114,015               |
| Federated Malay States.....                         | 27,430                   | 1,036,999               | 1,324,890                 | 1,713,096               |
| Unfederated Malay States—                           |                          |                         |                           |                         |
| Johore.....                                         | 7,320                    | 180,412                 | 282,234                   | 505,311                 |
| Kelantan.....                                       | 5,720                    | 286,751                 | 309,300                   | 362,517                 |
| Trengganu.....                                      | 5,050                    | 154,073                 | 153,765                   | 179,789                 |
| Kedah.....                                          | 3,640                    | 245,986                 | 338,558                   | 429,691                 |
| Perlis.....                                         | 310                      | 32,746                  | 40,087                    | 49,296                  |
| Totals, British Malaya.....                         | 51,001                   | 2,651,036               | 3,332,603                 | 4,353,715               |
| Brunei.....                                         | 2,500                    | 21,718                  | 25,451                    | 39,135                  |
| Ceylon <sup>8</sup> .....                           | 25,332                   | 4,106,350               | 4,498,605                 | 5,306,871               |
| State of North Borneo.....                          | 31,106                   | 208,183                 | 257,804                   | 270,223                 |
| Sarawak.....                                        | 42,000                   | 500,000 <sup>6</sup>    | 600,000 <sup>6</sup>      | 600,000 <sup>6</sup>    |
| Hong Kong.....                                      | 390                      | 366,145 <sup>9</sup>    | 559,052 <sup>9</sup>      | 849,751                 |
| New Territories.....                                |                          | 90,594 <sup>19</sup>    | 66,114 <sup>19</sup>      |                         |
| Territory of Papua.....                             | 90,540                   | 380,000 <sup>6</sup>    | 276,000 <sup>6</sup>      | 271,000 <sup>6</sup>    |
| Fiji.....                                           | 7,435                    | 139,541                 | 157,266                   | 182,576                 |
| Gilbert and Ellice Islands <sup>20</sup> .....      | 180                      | 31,121                  | 29,897                    | 33,714                  |
| British Solomon Islands Protectorate.....           | 14,600                   | 150,000 <sup>6</sup>    | 150,000 <sup>6</sup>      | 94,066                  |
| Tonga Islands Protectorate.....                     | 390                      | 23,017                  | 24,937                    | 28,839                  |
| Bermuda <sup>2</sup> .....                          | 19                       | 18,994                  | 20,127                    | 27,789                  |
| West Indies—                                        |                          |                         |                           |                         |
| Bahamas.....                                        | 4,404                    | 55,944                  | 53,031                    | 59,828                  |
| Barbados.....                                       | 166                      | 171,983                 | 156,312                   | 173,674 <sup>6</sup>    |
| Grenada.....                                        | 133                      | 66,750                  | 66,302                    | 78,662 <sup>6</sup>     |
| Jamaica.....                                        | 4,450                    | 831,383                 | 858,118                   | 1,050,667 <sup>6</sup>  |
| Cayman islands.....                                 | 225                      | 5,564                   | 5,253                     | 6,182 <sup>6</sup>      |
| Turks and Caicos islands.....                       | 166                      | 5,615                   | 5,612                     | 5,300 <sup>6</sup>      |
| Leeward islands.....                                | 708                      | 127,188                 | 122,242                   | 127,829 <sup>6</sup>    |
| St. Lucia.....                                      | 233                      | 48,637                  | 51,505                    | 59,676 <sup>6</sup>     |
| St. Vincent.....                                    | 150                      | 41,877                  | 44,447                    | 47,961                  |
| Trinidad.....                                       | 1,862                    | 312,803                 | 342,523                   | 387,425                 |
| Tobago.....                                         | 114                      | 20,749                  | 23,390                    | 25,358                  |
| Totals, West Indies.....                            | 12,611                   | 1,688,493               | 1,728,735                 | 2,022,562               |
| British Honduras.....                               | 8,598                    | 40,458                  | 45,317                    | 51,347                  |
| British Guiana.....                                 | 89,480                   | 296,041 <sup>21</sup>   | 297,691 <sup>21</sup>     | 310,933                 |
| Falkland islands <sup>22</sup> .....                | 5,618                    | 3,275                   | 3,431                     | 3,101                   |
| Totals, British Possessions (approx.) <sup>30</sup> | 11,449,000               | 420,200,000             | 434,400,000 <sup>12</sup> | 478,800,000             |

For footnotes see end of table, p. 167.

51.—Area and Population of the British Empire, by Continents and Countries, 1911, 1921 and 1931—concluded.

| Country.                                                       | Area in<br>Square Miles. | Populations.       |                        |                         |
|----------------------------------------------------------------|--------------------------|--------------------|------------------------|-------------------------|
|                                                                |                          | Census of<br>1911. | Census of<br>1921.     | Census of<br>1931.      |
| <b>Details by Countries—concluded.</b>                         |                          |                    |                        |                         |
| <b>Mandated Territories—</b>                                   |                          |                    |                        |                         |
| Palestine and Transjordania—                                   |                          |                    |                        |                         |
| Palestine.....                                                 | 10,358                   | <sup>28</sup>      | 757,182 <sup>24</sup>  | 1,035,821 <sup>25</sup> |
| Transjordania <sup>23</sup> .....                              | 15,444                   | <sup>23</sup>      | <sup>23</sup>          | 300,000 <sup>6</sup>    |
| British Togoland.....                                          | 13,240                   | <sup>23</sup>      | 187,959                | 293,714                 |
| British Cameroons.....                                         | 34,081                   | <sup>23</sup>      | 660,024 <sup>26</sup>  | 769,833                 |
| Territory of South West Africa.....                            | 322,393                  | <sup>23</sup>      | 227,739                | 240,520 <sup>6</sup>    |
| Tanganyika Territory.....                                      | 366,632                  | <sup>23</sup>      | 4,123,493              | 5,063,660               |
| Territory of New Guinea.....                                   | 91,000                   | <sup>23</sup>      | <sup>28</sup>          | 396,958 <sup>27</sup>   |
| Nauru.....                                                     | 8                        | <sup>23</sup>      | 2,120                  | 2,692                   |
| Territory of Western Samoa.....                                | 1,133                    | <sup>23</sup>      | 36,343                 | 46,000 <sup>6</sup>     |
| <b>Totals, Mandated Territories.....</b>                       | <b>854,289</b>           | <sup>23</sup>      | <b>5,994,860</b>       | <b>8,149,198</b>        |
| <b>Territories under Condominium—</b>                          |                          |                    |                        |                         |
| Anglo-Egyptian Sudan.....                                      | 1,008,100                | 2,706,954          | 4,853,000 <sup>6</sup> | 5,605,848 <sup>6</sup>  |
| New Hebrides.....                                              | 5,700                    | <sup>23</sup>      | <sup>28</sup>          | 66,000 <sup>6</sup>     |
| <b>Totals, Territories under Condominium...</b>                | <b>1,013,800</b>         | <b>2,706,954</b>   | <b>4,853,000</b>       | <b>5,671,848</b>        |
| <b>Grand Totals, British Empire (approx.)<sup>29, 30</sup></b> | <b>13,318,000</b>        | <b>422,906,954</b> | <b>445,247,869</b>     | <b>492,621,046</b>      |

<sup>1</sup>Inclusive of the Irish Free State. See footnote 8.

<sup>2</sup>A census of Ireland was not taken in 1921 and 1931. The figures include the estimated population of Ireland at the middle of 1921 and of Northern Ireland at the middle of 1931.

<sup>3</sup>Inclusive of 226,979 sq. miles of fresh water.

<sup>4</sup>The population is exclusive of full-blooded aborigines, of which 61,801 were enumerated at a census taken on June 30, 1929.

<sup>5</sup>The area (293 sq. miles) and population (15,204 persons in 1931) of the Cook and other annexed islands are excluded, as are also the uninhabited "outlying islands" of an area of 307 sq. miles. The Maori population (69,141 persons in 1931), and the inhabitants of the Tokelau Islands Dependency (4 sq. miles—population 1,048 in 1931) are also excluded.

<sup>6</sup>Estimated figures.

<sup>7</sup>Population for 1911 relates to the area which is now the Irish Free State, and is included in the population figure shown for the United Kingdom for that year. The first census of the Irish Free State was taken in 1926 and the figures shown above under 1921 relate to that census.

<sup>8</sup>The population is exclusive of the military and persons on ships in harbours.

<sup>9</sup>The population is exclusive of the military.

<sup>10</sup>Cyprus, which had been administered by the United Kingdom under a Convention, dated June 4, 1878, was annexed on Nov. 5, 1914.

<sup>11</sup>Exclusive of the mandated areas.

<sup>12</sup>Inclusive of particulars for the mandated area of the Cameroons. Estimated population of this area in 1924 was 660,024.

<sup>13</sup>Partly estimated—a census of natives not being available.

<sup>14</sup>Population of administered provinces only.

<sup>15</sup>Inclusive of 13,616 sq. miles of water within the territorial limits of the Uganda Protectorate.

<sup>16</sup>Inclusive of 10,353 sq. miles of water within the territorial limits of the Nyasaland Protectorate.

<sup>17</sup>Estimated mean population—a census of Europeans only was taken in 1931.

<sup>18</sup>Inclusive of Christmas island, Labuan and the Cocos (or Keeling) islands. The military and the floating population are included in the population figures.

<sup>19</sup>The population (17,049 persons at the Census of 1921) of part of the New Territories (New Kowloon) are included with the figures for Hong Kong.

<sup>20</sup>The Gilbert and Ellice groups were placed under British protection in 1892. Ocean island was annexed to the protectorate in 1900 and Union islands in 1911. The protectorates were annexed on Nov. 12, 1915 and are now known as "Gilbert and Ellice Islands Colony". In 1916 Fanning island and Washington island were annexed to the Colony.

<sup>21</sup>Exclusive of aborigines estimated to number 9,700 at the Census of 1921.

<sup>22</sup>Including South Georgia.

<sup>23</sup>Transjordan is not included in the total of mandated territories shown in the "Statistical Abstract of the British Empire" and the figures have been taken from the League of Nations Year Book, 1932-33.

<sup>24</sup>Census of 1922.

<sup>25</sup>Census of Nov. 18, 1931.

<sup>26</sup>Estimated 1924.

<sup>27</sup>Inclusive of estimated figures of non-indigenous population.

<sup>28</sup>Cannot be stated.

<sup>29</sup>Includes Transjordan, see footnote 23.

<sup>30</sup>The totals, especially for population, can only be given approximately since certain of the figures are estimates of native populations, and in other cases data are not available.

## Section 15.—Area and Population of the World.

Statistics showing the areas and the populations of the various continents, and details of each country, are presented in Table 52. There is a wide difference between the dates of the latest censuses of different countries and since the aim of bringing these statistics together is for comparative purposes, it was necessary to fix populations as at a common date. Dec. 31, 1931, was chosen because this is the closest date common to the chief census dates of the important countries and because estimates as at that date were available from reliable sources. This date is not sufficiently remote from the censuses to cause misgiving as to the accuracy of the figures simply because they are estimates. In a number of cases, notably in parts of Asia and Africa, the figures are not as accurate as they are, for instance, in the western world, since complete censuses do not everywhere exist, but the approximations given are considered to be the best available.

### 52.—Area and Population of the World, by Continents and Countries, 1931.

NOTE.—The source of the following figures is the "League of Nations Year Book, 1932-33" estimates as at Dec. 31, 1931, except in the cases of: the British Empire, where the source is the "Statistical Abstract for the British Empire, 1931"; Dec. 31 estimates; of China proper where the source is the "Statesman's Year Book, 1933"; and of Manchuria where the source is the "Manchurian Year Book, 1933". The Continental and World totals have not been adjusted, but are as given in the League of Nations Year Book.

| Country.                                                       | Population.      | Area in Square Miles. | Country.                                      | Population.  | Area in Square Miles. |
|----------------------------------------------------------------|------------------|-----------------------|-----------------------------------------------|--------------|-----------------------|
|                                                                | 000 omitted.     |                       |                                               | 000 omitted. |                       |
| <b>Continents—</b>                                             |                  |                       | <b>Europe—concluded.</b>                      |              |                       |
| Europe.....                                                    | 510,350          | 4,412,000             | Luxemburg.....                                | 301          | 1,000                 |
| Asia.....                                                      | 1,105,400        | 16,178,000            | Malta.....                                    | 244          | 100                   |
| Africa.....                                                    | 143,400          | 11,566,000            | Iceland.....                                  | 110          | 39,800                |
| North and Central America and West Indies.....                 | 170,460          | 8,654,000             | Monaco.....                                   | 25           | 8                     |
| South America.....                                             | 84,956           | 7,055,000             | Gibraltar.....                                | 17           | 2                     |
| Oceania.....                                                   | 9,920            | 3,301,000             | San Marino.....                               | 13           | 39                    |
|                                                                |                  |                       | Liechtenstein.....                            | 12           | 77                    |
|                                                                |                  |                       | Andorra.....                                  | 5            | 200                   |
| <b>Grand Totals.....</b>                                       | <b>2,024,500</b> | <b>51,166,000</b>     | <b>Asia—</b>                                  |              |                       |
| <b>Europe—</b>                                                 |                  |                       | China proper.....                             | 458,780      | 1,953,300             |
| Russia in Europe.....                                          | 128,800          | 2,316,200             | India.....                                    | 355,800      | 1,805,300             |
| Germany.....                                                   | 64,776           | 181,100               | Japan.....                                    | 65,500       | 147,500               |
| United Kingdom (including Channel islands and isle of Man). .. | 46,342           | 94,100                | Netherlands East Indies.....                  | 61,900       | 733,600               |
| France.....                                                    | 41,950           | 212,700               | Russia in Asia.....                           | 34,400       | 5,860,200             |
| Italy (including Fiume). ..                                    | 41,477           | 119,700               | Manchuria.....                                | 29,575       | 439,000               |
| Poland.....                                                    | 32,176           | 149,800               | French Indo-China.....                        | 21,600       | 284,600               |
| Spain (including Canary islands).....                          | 23,800           | 194,200               | Korea (Jap. Chōsen).....                      | 21,450       | 85,300                |
| Roumania.....                                                  | 18,300           | 113,900               | Turkey in Asia.....                           | 13,600       | 285,300               |
| Czechoslovakia.....                                            | 14,823           | 54,100                | Philippine islands.....                       | 12,504       | 114,300               |
| Yugoslavia.....                                                | 14,080           | 96,100                | Siam.....                                     | 12,100       | 200,000               |
| Hungary.....                                                   | 8,743            | 35,900                | Persia.....                                   | 9,000        | 627,800               |
| Belgium.....                                                   | 8,159            | 11,600                | Afghanistan.....                              | 7,000        | 251,000               |
| Netherlands.....                                               | 8,062            | 13,100                | Arabia (Independent).....                     | 7,000        | 1,003,900             |
| Portugal (including Azores and Madeira).....                   | 6,930            | 36,000                | Nepal.....                                    | 5,600        | 54,100                |
| Austria.....                                                   | 6,733            | 32,400                | Ceylon.....                                   | 5,367        | 25,300                |
| Greece.....                                                    | 6,480            | 50,200                | Iraq.....                                     | 3,300        | 116,600               |
| Sweden.....                                                    | 6,162            | 173,000               | Syria and Lebanon.....                        | 2,800        | 77,200                |
| Bulgaria.....                                                  | 6,067            | 39,800                | Federated Malay States.....                   | 1,671        | 27,400                |
| Switzerland.....                                               | 4,095            | 15,800                | Unfederated Malay States.....                 | 1,490        | 22,000                |
| Denmark.....                                                   | 3,578            | 16,600                | Palestine and Transjordania.....              | 1,340        | 25,800                |
| Finland.....                                                   | 3,493            | 149,800               | Straits Settlements.....                      | 1,085        | 1,500                 |
| Irish Free State.....                                          | 2,957            | 26,600                | British North Borneo, Brunei and Sarawak..... | 902          | 75,600                |
| Norway.....                                                    | 2,831            | 124,700               | Hong Kong.....                                | 879          | 300                   |
| Lithuania.....                                                 | 2,393            | 21,600                | Timor.....                                    | 480          | 7,300                 |
| Latvia.....                                                    | 1,920            | 25,500                | Cyprus.....                                   | 350          | 3,600                 |
| Estonia.....                                                   | 1,119            | 18,500                | French India.....                             | 270          | 200                   |
| Turkey in Europe.....                                          | 1,100            | 9,300                 | Bhutan.....                                   | 250          | 19,300                |
| Albania.....                                                   | 1,040            | 10,800                | Kwang Chau Wan.....                           | 250          | 300                   |
| Danzig.....                                                    | 405              | 700                   | Macao.....                                    | 170          | 4                     |
|                                                                |                  |                       | Bahrein islands.....                          | 120          | 200                   |
|                                                                |                  |                       | Aden (including Perim).....                   | 51           | 80                    |
|                                                                |                  |                       | Socotra.....                                  | 12           | 1,400                 |



52.—Area and Population of the World, by Continents and Countries, 1931—concluded.

| Country.                                          | Population.         | Area in Square Miles. | Country.                                                    | Population. | Area in Square Miles. |
|---------------------------------------------------|---------------------|-----------------------|-------------------------------------------------------------|-------------|-----------------------|
|                                                   | 000 omitted.        |                       |                                                             | 000 omitted |                       |
| <b>Africa—</b>                                    |                     |                       | <b>North and Central America and West Indies—concluded.</b> |             |                       |
| Nigeria.....                                      | 19,200              | 338,400               | Nicaragua.....                                              | 750         | 49,400                |
| Egypt.....                                        | 14,920              | 386,100               | Costa Rica.....                                             | 528         | 23,200                |
| French West Africa.....                           | 14,675              | 1,799,200             | Panama.....                                                 | 475         | 32,400                |
| Belgian Congo.....                                | 10,000              | 920,800               | Trinidad and Tobago.....                                    | 415         | 2,000                 |
| Union of South Africa.....                        | 8,192               | 471,900               | Newfoundland and Labrador.....                              | 282         | 275,100               |
| Algeria.....                                      | 6,650               | 847,500               | Guadeloupe.....                                             | 270         | 700                   |
| Anglo-Egyptian Sudan.....                         | 5,508               | 1,008,100             | Martinique.....                                             | 237         | 400                   |
| Abyssinia.....                                    | 5,500               | 350,000               | Windward islands.....                                       | 188         | 500                   |
| Morocco (French zone).....                        | 5,450               | 160,200               | Barbados.....                                               | 174         | 200                   |
| Tanganyika Territory.....                         | 5,064               | 366,600               | Leeward islands.....                                        | 128         | 700                   |
| Mozambique (including Manica and Sofala).....     | 4,000               | 298,000               | Curacao.....                                                | 72          | 400                   |
| Madagascar and adjacent islands.....              | 3,730               | 237,800               | Bahamas.....                                                | 61          | 4,400                 |
| Uganda Protectorate.....                          | 3,554               | 94,200                | Alaska.....                                                 | 60          | 586,500               |
| French Equatorial Africa.....                     | 3,200               | 915,000               | British Honduras.....                                       | 52          | 8,600                 |
| Kenya Protectorate.....                           | 3,041               | 221,100               | Panama Canal Zone.....                                      | 41          | 500                   |
| Gold Coast.....                                   | 2,950               | 78,500                | Bermuda.....                                                | 28          | 19                    |
| Angola.....                                       | 2,700               | 484,900               | Virgin islands of U.S.A.....                                | 22          | 100                   |
| Rhodesia.....                                     | 2,532               | 438,300               | Greenland (Danish).....                                     | 17          | 120,800               |
| Liberia.....                                      | 2,500               | 46,300                | Cayman islands.....                                         | 6           | 200                   |
| Tunis.....                                        | 2,450               | 48,300                | Turks and Caicos islands.....                               | 5           | 200                   |
| Cameroons (French).....                           | 2,250               | 166,000               | St. Pierre and Miquelon.....                                | 4           | 77                    |
| Sierra Leone.....                                 | 1,790               | 31,000                |                                                             |             |                       |
| Nyasaland Protectorate.....                       | 1,502               | 47,900                | <b>South America—</b>                                       |             |                       |
| Italian Somaliland.....                           | 1,000               | 193,000               | Brazil.....                                                 | 42,721      | 3,291,500             |
| Cameroons (British).....                          | 775                 | 34,100                | Argentine Republic.....                                     | 11,659      | 1,078,400             |
| Morocco (Spanish zone).....                       | 750                 | 8,500                 | Colombia.....                                               | 8,400       | 444,000               |
| Togoland (French).....                            | 750                 | 20,000                | Peru.....                                                   | 6,300       | 532,000               |
| Libia.....                                        | 715                 | 632,400               | Chile.....                                                  | 4,350       | 286,500               |
| Basutoland.....                                   | 650                 | 11,700                | Venezuela.....                                              | 3,226       | 352,100               |
| Eritrea.....                                      | 630                 | 45,900                | Bolivia.....                                                | 3,000       | 514,700               |
| Mauritius and dependencies.....                   | 404                 | 800                   | Ecuador.....                                                | 2,000       | 118,500               |
| Somaliland Protectorate.....                      | 350                 | 68,000                | Uruguay.....                                                | 1,941       | 72,200                |
| Portuguese Guinea.....                            | 340                 | 13,900                | Paraguay.....                                               | 860         | 176,800               |
| Togoland (British).....                           | 300                 | 13,200                | British Guiana.....                                         | 314         | 89,500                |
| Zanzibar Protectorate.....                        | 245                 | 1,000                 | Dutch Guiana (Surinam).....                                 | 155         | 57,900                |
| South West Africa.....                            | 240                 | 322,400               | French Guiana.....                                          | 29          | 34,700                |
| Gambia.....                                       | 200                 | 4,000                 | Falkland islands and dependencies.....                      | 3           | 5,600                 |
| Réunion.....                                      | 200                 | 900                   |                                                             |             |                       |
| Beechuanaland Protectorate.....                   | 160                 | 275,000               | <b>Oceania—</b>                                             |             |                       |
| Cape Verde islands.....                           | 160                 | 1,500                 | Commonwealth of Australia.....                              | 6,526       | 2,974,600             |
| Swaziland.....                                    | 125                 | 6,700                 | New Zealand (including Cook and Tokelau islands).....       | 1,538       | 104,000               |
| Spanish Guinea.....                               | 120                 | 10,400                | Territory of New Guinea.....                                | 540         | 91,000                |
| Somali Coast (French).....                        | 70                  | 8,500                 | Hawaii.....                                                 | 382         | 6,600                 |
| St. Thomé and Príncipe islands.....               | 60                  | 300                   | Papua.....                                                  | 280         | 90,500                |
| Seychelles.....                                   | 28                  | 200                   | Fiji.....                                                   | 186         | 7,400                 |
| Rio de Oro (including Ifni).....                  | 22                  | 110,000               | Solomon Islands Protectorate (British).....                 | 95          | 14,600                |
| St. Helena and Ascension.....                     | 4                   | 81                    | Marshall islands, etc. (Japanese Mandate).....              | 73          | 800                   |
| <b>North and Central America and West Indies—</b> |                     |                       | New Hebrides.....                                           | 66          | 5,700                 |
| United States.....                                | 124,450             | 3,026,600             | New Caledonia.....                                          | 57          | 7,300                 |
| Mexico.....                                       | 16,800              | 760,200               | Western Samoa.....                                          | 46          | 1,100                 |
| Canada.....                                       | 10,160 <sup>2</sup> | 3,691,900             | French Settlements.....                                     | 40          | 1,500                 |
| Cuba.....                                         | 3,970               | 44,000                | Gilbert and Ellice Islands.....                             | 33          | 200                   |
| Haiti.....                                        | 2,500               | 10,000                | Tonga Islands Protectorate.....                             | 29          | 400                   |
| Guatemala.....                                    | 2,219               | 42,500                | Guam.....                                                   | 20          | 200                   |
| Puerto Rico.....                                  | 1,586               | 3,400                 | Samoa (American).....                                       | 10          | 77                    |
| Salvador.....                                     | 1,480               | 13,100                | Nauru island.....                                           | 3           | 8                     |
| Dominican Republic.....                           | 1,250               | 19,300                |                                                             |             |                       |
| Jamaica.....                                      | 1,051               | 4,500                 |                                                             |             |                       |
| Honduras.....                                     | 870                 | 46,300                |                                                             |             |                       |

<sup>1</sup>Mandated territory of the Union of South Africa.

<sup>2</sup>The Dec. 31, 1931, figures published in the "Statistical Abstract for the British Empire" give 10,506,000 as the population of Canada. That, however, is the official estimate for June, 1932 (see p. 164).

## CHAPTER V.—VITAL STATISTICS.\*

The collection of vital statistics commenced in Canada, as in England, with the registration of baptisms, marriages and burials by the ecclesiastical authorities. These registers, maintained by the priests from the first settlement of the country, have made it possible for the vital statistics of the French colony to be compiled from the year 1610.† In the beginning only one copy of such records was made, but in 1678 the Sovereign Council of Quebec ordered that in future such records should be made in duplicate, and that one copy, duly authenticated, should be delivered to the civil authorities. This arrangement was continued after the cession of the country to the British, and was extended to the newly-formed Protestant congregations of Lower Canada by an Act of 1795, but the registration among these latter remained seriously defective, both in Lower Canada and in the new province of Upper Canada.

In English-speaking Canada vital statistics were from the commencement incomplete, the pioneer settlers often going out into the wilds far from the authority of government and the ministrations of religion. Although from 1847 a law existed in Upper Canada requiring ministers of religion to deposit duplicates of their registers of baptisms, marriages and deaths with the clerks of the peace for transmission to the Provincial Secretary, this law remained practically a dead letter. Again, the efforts made to secure records of births and deaths at the Censuses of 1851 and 1861 produced most unsatisfactory and even ridiculous results, as was pointed out by Dr. J. C. Taché, Secretary of the Board of Registration and Statistics, in a memorial published in the report of the Canadian Minister of Agriculture for 1865. Nevertheless, in spite of the inherent unsoundness of securing, at a point of time in a decennial census, a record of births and deaths occurring over a considerable period of time, this method was followed down to 1911, when the obviously untrustworthy character of the results led to the discarding of the data obtained at the inquiry.

The Dominion Government instituted in the early '80's a plan for compiling the annual mortuary statistics of cities of 25,000 population and over, by subsidizing local boards of health to supply the information under special regulations. A beginning was made with the five cities of Montreal, Toronto, Hamilton, Halifax and Saint John. By 1891 the list had grown to 25, at a time when, in most of the provinces, the only birth and death statistics were those of the municipalities. Upon the organization of provincial bureaus of vital statistics, however, this work was abandoned, though a conference of Dominion and provincial officials, held in 1893, passed a resolution calling upon the provincial and Dominion authorities to co-operate in the work of collecting, compiling and publishing the vital statistics of the Dominion. This resolution had no immediate practical results in securing accurate or comparable vital statistics.

Following Confederation each of the provinces of the Dominion had enacted its own legislation on vital statistics, where such existed, and administered this legislation according to its own individual methods. While the vital statistics of Ontario were published in considerable detail annually from 1871, the arrangements for the

\*This chapter has been revised by W. R. Tracey, B.A., Chief, Vital Statistics, Dominion Bureau of Statistics. A list of the publications of this Branch will be found in Chapter XXIX, Section 1, under "Population".

†For a summary of the vital statistics of the Roman Catholic population from 1610 to 1883, see the Statistical Year Book of Quebec, 1921, English or French edition, p. 51. For details, by years, of this movement of population, see Vol. V of the Census of Canada, 1871, pp. 160-265, and Vol. IV of the Census of Canada, 1881, pp. 134-145.

collection of data were unsatisfactory. Only in 1906 was the publication of vital statistics begun in Prince Edward Island (no report for 1912 was ever issued). In Nova Scotia no vital statistics were published between 1876 and 1908 and in New Brunswick no vital statistics were available until 1920. Because of the *lacunæ*, and even more because of the incomparability of information collected, of methods of collection and of standard of enforcement, Canadian vital statistics remained extremely unsatisfactory and impossible of compilation on a national basis, as was pointed out by the 1912 Commission on Official Statistics, which recommended that "for the Dominion, now engaged in building up its national unity, it is important that uniform data should render possible to statisticians the institution of true interprovincial and international comparisons. By effective co-operation of the provinces with the Dominion, this object should be capable of attainment without sacrificing the liberty of each province to satisfy its own special statistical requirements".

The scheme of co-operation thus outlined was brought into effect as a consequence of the establishment of the Dominion Bureau of Statistics under the Statistics Act of 1918, which specifically provided that the Bureau should publish an annual report on vital statistics. A scheme was first drawn up in the Bureau and submitted to the various provinces; then Dominion-Provincial conferences on vital statistics were held in June and December, 1918, when comprehensive and final discussions took place.

At the conferences of 1918, it was agreed: (1) that the model Vital Statistics Act prepared by the Dominion Bureau of Statistics, when accepted by the Legislatures, should form the basis of the vital statistics legislation of the several provinces, thus securing uniformity and comparability; (2) that the provinces should undertake to obtain the returns of births, marriages and deaths on the prescribed forms as approved and adopted at the conference, the Dominion Bureau of Statistics to supply the forms free of charge; (3) that the provinces should forward to the Dominion Bureau of Statistics, at such times as might be agreed upon, either the original returns of births, marriages and deaths, or certified transcriptions of the same; the Bureau of Statistics to undertake the mechanical compilation and tabulation.

Under the scheme outlined above, the vital statistics for all the provinces except Quebec were secured and compiled on a uniform basis for the years 1921 to 1925. The annual reports for these years may be obtained on application to the Dominion Statistician.

Quebec has been included in the registration area as from Jan. 1, 1926, from which date her statistics are on a comparable basis with those of the other provinces. The final reports for 1926 to 1932, including the statistics of all the nine provinces, have appeared and may be procured from the Dominion Statistician.

The vital statistics of Yukon and the Northwest Territories have been collected and compiled since 1924. They are not, however, presented with those of the nine provinces in the tables of this chapter because the figures are not regarded as complete, the details are in many cases not available, and the small and varying population is not known with sufficient accuracy for each year to enable the rates to be calculated. As these territories contain less than 1/700th of the population of Canada, their vital statistics are a negligible factor in the total. Births, marriages and deaths in Yukon and the Northwest Territories, for the years 1924-32, are summarized in the statement herewith:—



## VITAL STATISTICS OF YUKON AND THE NORTHWEST TERRITORIES, 1924-32.

| Year.     | Yukon.  |            |         | The Northwest Territories. |            |         |
|-----------|---------|------------|---------|----------------------------|------------|---------|
|           | Births. | Marriages. | Deaths. | Births.                    | Marriages. | Deaths. |
|           | No.     | No.        | No.     | No.                        | No.        | No.     |
| 1924..... | 31      | 5.         | 38      | 95                         | 39         | 47      |
| 1925..... | 22      | 17         | 63      | 57                         | 35         | 32      |
| 1926..... | 27      | 12         | 68      | 75                         | 3          | 51      |
| 1927..... | 29      | 19         | 33      | 126                        | 20         | 133     |
| 1928..... | 30      | 13         | 46      | 222                        | 30         | 367     |
| 1929..... | 35      | 10         | 54      | 133                        | 29         | 168     |
| 1930..... | 45      | 17         | 69      | 232                        | 36         | 206     |
| 1931..... | 40      | 24         | 66      | 141                        | 36         | 106     |
| 1932..... | 44      | 26         | 62      | 195                        | 33         | 122     |

Two important considerations should be borne in mind by the students who use either the tables which follow or the detailed reports issued by the Bureau of Statistics for comparative purposes. First, in spite of the improvements of the past decade, registration generally, and the registration of births in particular, is not universally carried out. The great extent of the country and the isolation of many of its inhabitants partly account for this unsatisfactory situation. Secondly, the very considerable differences in the age and sex distribution of the population in different provinces make comparisons of crude birth rates and crude death rates as among the provinces unfair and misleading. All rates in this chapter have been recalculated on the basis of the revised estimates of population given on p. 164.

The natural increase of the population of Canada is first dealt with, followed by detailed tables of births, marriages and deaths in the order named.

### Section 1.—Natural Increase.

Summary statistics of the births, marriages, deaths and natural increase per 1,000 of population are given for the years 1921 to 1933, by provinces, in Table 1.

The province of Quebec is regarded as having one of the highest rates of natural increase per 1,000 population of any civilized area. The rate was 17.1 in 1931 and, while it has been appreciably reduced in line with common experience almost everywhere, it stood at 15.2 in 1933. Saskatchewan, Alberta and New Brunswick follow Quebec in the order given. In the case of the two western provinces the high rates of natural increase are due to their relatively younger populations and lower crude death rates, but in the case of New Brunswick the condition of an abnormally high birth rate combined with a high death rate exists. In fact, the death rate in New Brunswick is higher than that of any other province. The high rates for these provinces brought the averages for Canada up to 13.3 in 1926, 13.4 in 1927, 13.0 in 1928, 12.2 in 1929, 13.2 in 1930, 13.1 in 1931, 12.6 in 1932 and 11.3 in 1933. The rate of natural increase in 1932 was 8.2 per 1,000 in Australia, 9.1 in New Zealand, 3.3 in England and Wales, 5.1 in Scotland and 4.4 in the Irish Free State, so that Canada compares quite favourably with other British countries.

The rates of natural increase per 1,000 of mean population for other countries in the latest years are as follows, the figures being for 1932, except where stated in parentheses: Denmark, 7.0; Japan, 15.2; Netherlands, 13.0; Norway, 5.4; Finland, 6.1; Italy, 9.1; Switzerland, 4.6; Sweden, 2.9; Spain, 10.1 (1931); France, 1.5; Belgium, 4.5; United States (registration area), 6.5; Union of South Africa (whites), 14.2.

During recent years the rate of natural increase of the population of Canada has shown a tendency to decline. In 1921 the rate was 17.8, declining to 13.3 in 1926 and 12.2 in 1929. After 1929 there was a temporary improvement but, as



BIRTH RATES, DEATH RATES AND RATES OF NATURAL  
INCREASE IN CANADA — 1926-1933  
AND ITS PROVINCES - 1931-33  
EXCLUSIVE OF THE NORTH WEST TERRITORIES AND YUKON  
(RATES PER 1,000 POPULATION)

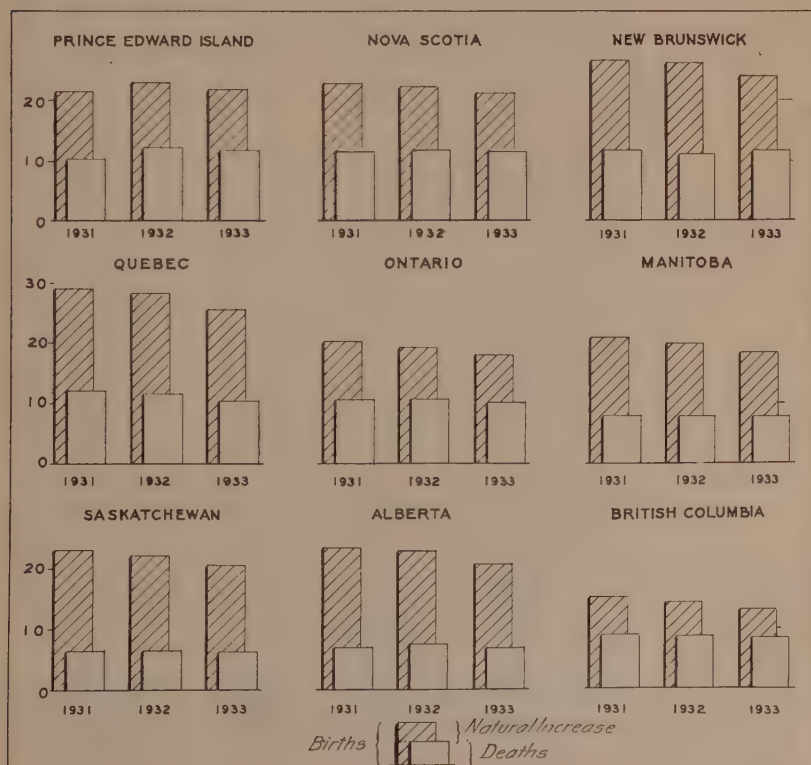
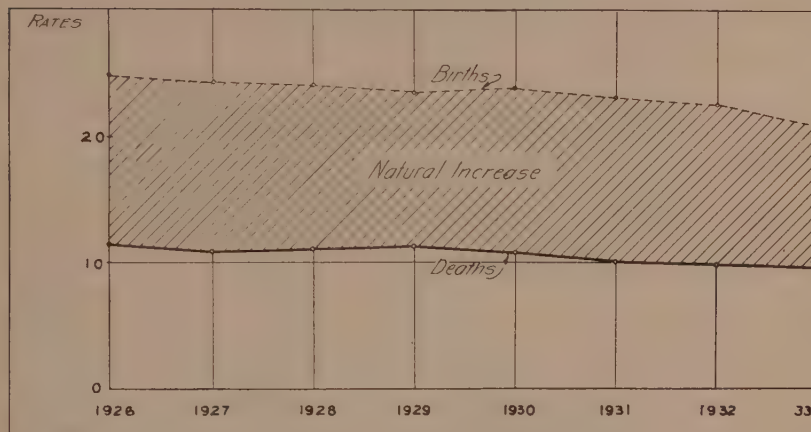


Table 1 shows, the rates for 1932 and 1933, 12.6 and 11.3 respectively, were a continuation of the downward trend.

Statistics of the births, marriages, deaths and natural increase in cities and towns of 10,000 and over are given for the calendar years 1931 and 1932 in Table 2, but these are not worked out as rates per 1,000 of population, though the census populations in 1931, which are also given, furnish some guide to the rates of natural increase. Particularly notable in this table are the larger proportionate numbers of births in such cities as Montreal and Quebec, as compared with Toronto, Hamilton, Ottawa, Winnipeg and Vancouver. These higher birth rates are in part counter-balanced by considerably higher death rates, but the natural increases in Quebec cities are still considerably higher than in the cities of other provinces.

**1.—Summary of Births, Marriages, Deaths and Natural Increase, by Provinces, for the calendar years 1931-33, with Averages 1921-25 and 1926-30.**

NOTE.—For other than census years birth, marriage and death rates are calculated on estimated population (see p. 164). Figures for individual years 1921-25 will be found at p. 160 of the 1927-28 Year Book and for 1926-30 at p. 150 of the 1933 Year Book.

| Province.                                     | Births.     | Birth<br>Rate<br>per 1,000<br>Popu-<br>lation. | Marri-<br>ages. | Marri-<br>age<br>Rate<br>per 1,000<br>Popu-<br>lation. | Deaths. | Death<br>Rate<br>per 1,000<br>Popu-<br>lation. | Excess<br>of Births<br>over<br>Deaths. | Rate of Natural<br>Increase<br>per 1,000<br>Popu-<br>lation. |      |
|-----------------------------------------------|-------------|------------------------------------------------|-----------------|--------------------------------------------------------|---------|------------------------------------------------|----------------------------------------|--------------------------------------------------------------|------|
|                                               | No.         |                                                | No.             |                                                        | No.     |                                                | No.                                    |                                                              |      |
| Prince Edward Island..                        | Av. 1921-25 | 1,966                                          | 22.6            | 473                                                    | 5.4     | 1,085                                          | 12.5                                   | 881                                                          | 10.1 |
|                                               | Av. 1926-30 | 1,734                                          | 19.7            | 473                                                    | 5.4     | 969                                            | 11.0                                   | 765                                                          | 8.7  |
|                                               | 1931        | 1,879                                          | 21.3            | 490                                                    | 5.6     | 912                                            | 10.4                                   | 967                                                          | 10.9 |
|                                               | 1932        | 2,027                                          | 22.8            | 456                                                    | 5.1     | 1,051                                          | 11.8                                   | 976                                                          | 11.0 |
|                                               | 1933        | 1,946                                          | 21.9            | 481                                                    | 5.4     | 1,032                                          | 11.6                                   | 914                                                          | 10.3 |
| Nova Scotia.....                              | Av. 1921-25 | 12,119                                         | 23.4            | 3,186                                                  | 6.1     | 6,519                                          | 12.6                                   | 5,600                                                        | 10.8 |
|                                               | Av. 1926-30 | 11,016                                         | 21.4            | 3,224                                                  | 6.3     | 6,362                                          | 12.4                                   | 4,654                                                        | 9.0  |
|                                               | 1931        | 11,615                                         | 22.6            | 3,394                                                  | 6.6     | 5,968                                          | 11.6                                   | 5,647                                                        | 11.0 |
|                                               | 1932        | 11,629                                         | 22.4            | 3,197                                                  | 6.2     | 6,159                                          | 11.9                                   | 5,470                                                        | 10.5 |
|                                               | 1933        | 11,164                                         | 21.4            | 3,316                                                  | 6.4     | 6,045                                          | 11.6                                   | 5,119                                                        | 9.8  |
| New Brunswick.....                            | Av. 1921-25 | 11,080                                         | 28.4            | 2,953                                                  | 7.6     | 5,093                                          | 13.1                                   | 5,987                                                        | 15.3 |
|                                               | Av. 1926-30 | 10,327                                         | 25.8            | 2,970                                                  | 7.4     | 5,019                                          | 12.5                                   | 5,308                                                        | 13.3 |
|                                               | 1931        | 10,801                                         | 26.5            | 2,544                                                  | 6.2     | 4,644                                          | 11.4                                   | 6,157                                                        | 15.1 |
|                                               | 1932        | 10,810                                         | 26.2            | 2,380                                                  | 5.8     | 4,554                                          | 11.0                                   | 6,256                                                        | 15.2 |
|                                               | 1933        | 10,037                                         | 23.9            | 2,517                                                  | 6.0     | 4,908                                          | 11.7                                   | 5,129                                                        | 12.2 |
| Quebec <sup>1</sup> .....                     | Av. 1926-30 | 82,771                                         | 30.5            | 18,731                                                 | 6.9     | 36,645                                         | 13.5                                   | 46,126                                                       | 17.0 |
|                                               | 1931        | 83,606                                         | 29.1            | 16,783                                                 | 5.8     | 34,487                                         | 12.0                                   | 49,119                                                       | 17.1 |
|                                               | 1932        | 82,216                                         | 28.3            | 15,115                                                 | 5.2     | 33,088                                         | 11.4                                   | 49,128                                                       | 16.9 |
|                                               | 1933        | 76,920                                         | 25.9            | 15,337                                                 | 5.2     | 31,636                                         | 10.7                                   | 45,284                                                       | 15.2 |
| Ontario.....                                  | Av. 1921-25 | 71,454                                         | 23.7            | 24,037                                                 | 8.0     | 34,252                                         | 11.3                                   | 37,202                                                       | 12.4 |
|                                               | Av. 1926-30 | 68,703                                         | 21.0            | 25,449                                                 | 7.8     | 36,650                                         | 11.2                                   | 32,053                                                       | 9.8  |
|                                               | 1931        | 69,209                                         | 20.2            | 23,771                                                 | 6.9     | 35,705                                         | 10.4                                   | 33,504                                                       | 9.8  |
|                                               | 1932        | 66,842                                         | 19.2            | 22,224                                                 | 6.4     | 36,469                                         | 10.5                                   | 30,373                                                       | 8.7  |
|                                               | 1933        | 63,646                                         | 18.1            | 22,587                                                 | 6.4     | 35,301                                         | 10.0                                   | 28,345                                                       | 8.1  |
| Manitoba.....                                 | Av. 1921-25 | 16,590                                         | 26.8            | 4,634                                                  | 7.5     | 5,348                                          | 8.6                                    | 11,242                                                       | 18.2 |
|                                               | Av. 1926-30 | 14,391                                         | 21.7            | 4,951                                                  | 7.5     | 5,507                                          | 8.3                                    | 8,884                                                        | 13.4 |
|                                               | 1931        | 14,376                                         | 20.5            | 4,888                                                  | 7.0     | 5,319                                          | 7.6                                    | 9,057                                                        | 12.9 |
|                                               | 1932        | 14,124                                         | 19.9            | 4,729                                                  | 6.7     | 5,341                                          | 7.5                                    | 8,783                                                        | 12.4 |
|                                               | 1933        | 13,304                                         | 18.4            | 4,819                                                  | 6.7     | 5,455                                          | 7.6                                    | 7,849                                                        | 10.8 |
| Saskatchewan.....                             | Av. 1921-25 | 21,580                                         | 27.7            | 4,982                                                  | 6.4     | 5,859                                          | 7.5                                    | 15,721                                                       | 20.2 |
|                                               | Av. 1926-30 | 21,298                                         | 24.7            | 6,036                                                  | 7.0     | 6,256                                          | 7.3                                    | 15,042                                                       | 17.4 |
|                                               | 1931        | 21,331                                         | 23.1            | 5,700                                                  | 6.2     | 6,066                                          | 6.6                                    | 15,265                                                       | 16.5 |
|                                               | 1932        | 20,814                                         | 22.3            | 5,772                                                  | 6.2     | 6,044                                          | 6.5                                    | 14,770                                                       | 15.8 |
|                                               | 1933        | 20,145                                         | 21.2            | 5,371                                                  | 5.6     | 6,024                                          | 6.3                                    | 14,121                                                       | 14.9 |
| Alberta.....                                  | Av. 1921-25 | 15,461                                         | 26.0            | 4,313                                                  | 7.3     | 4,953                                          | 8.3                                    | 10,508                                                       | 17.7 |
|                                               | Av. 1926-30 | 15,924                                         | 24.2            | 5,265                                                  | 8.0     | 5,530                                          | 8.4                                    | 10,394                                                       | 15.8 |
|                                               | 1931        | 17,252                                         | 23.6            | 5,142                                                  | 7.0     | 5,302                                          | 7.2                                    | 11,950                                                       | 16.4 |
|                                               | 1932        | 16,990                                         | 23.0            | 5,054                                                  | 6.8     | 5,521                                          | 7.5                                    | 11,469                                                       | 15.5 |
|                                               | 1933        | 16,123                                         | 21.3            | 5,389                                                  | 7.1     | 5,346                                          | 7.1                                    | 10,777                                                       | 14.2 |
| British Columbia.....                         | Av. 1921-25 | 10,256                                         | 18.4            | 3,971                                                  | 7.1     | 4,812                                          | 8.7                                    | 5,444                                                        | 9.7  |
|                                               | Av. 1926-30 | 10,356                                         | 16.2            | 4,786                                                  | 7.5     | 5,986                                          | 9.3                                    | 4,370                                                        | 6.9  |
|                                               | 1931        | 10,404                                         | 15.0            | 3,879                                                  | 5.6     | 6,114                                          | 8.8                                    | 4,290                                                        | 6.2  |
|                                               | 1932        | 10,214                                         | 14.5            | 3,604                                                  | 5.1     | 6,150                                          | 8.7                                    | 4,064                                                        | 5.8  |
|                                               | 1933        | 9,583                                          | 13.5            | 4,048                                                  | 5.7     | 6,221                                          | 8.7                                    | 3,362                                                        | 4.8  |
| Canada (Exclusive of<br>the Territories)..... | Av. 1926-30 | 236,520                                        | 24.1            | 71,885                                                 | 7.3     | 108,924                                        | 11.1                                   | 127,596                                                      | 13.0 |
|                                               | 1931        | 240,473                                        | 23.2            | 66,591                                                 | 6.4     | 104,517                                        | 10.1                                   | 135,956                                                      | 13.1 |
|                                               | 1932        | 235,666                                        | 22.5            | 62,531                                                 | 6.0     | 104,377                                        | 9.9                                    | 131,289                                                      | 12.6 |
|                                               | 1933        | 222,868                                        | 20.9            | 63,865                                                 | 6.0     | 101,868                                        | 9.6                                    | 120,900                                                      | 11.3 |

<sup>1</sup> Quebec was not included in the registration area prior to 1926.

## 2.—Summary of Births, Marriages, Deaths and Natural Increase, in Cities and Towns of 10,000 Population and Over, 1931-32.

| Province and City or Town. | Census Population, 1931. | Births. |        | Marriages. |       | Deaths. |        | Excess of Births over Deaths. |       |
|----------------------------|--------------------------|---------|--------|------------|-------|---------|--------|-------------------------------|-------|
|                            |                          | 1931.   | 1932.  | 1931.      | 1932. | 1931.   | 1932.  | 1931.                         | 1932. |
|                            | No.                      | No.     | No.    | No.        | No.   | No.     | No.    | No.                           | No.   |
| <b>P. E. Island—</b>       |                          |         |        |            |       |         |        |                               |       |
| Charlottetown.....         | 12,361                   | 371     | 388    | 181        | 145   | 257     | 285    | 114                           | 103   |
| <b>Nova Scotia—</b>        |                          |         |        |            |       |         |        |                               |       |
| Glace Bay.....             | 20,706                   | 693     | 724    | 139        | 169   | 263     | 267    | 430                           | 457   |
| Halifax.....               | 59,275                   | 1,651   | 1,620  | 695        | 580   | 875     | 931    | 776                           | 689   |
| Sydney.....                | 23,089                   | 643     | 601    | 132        | 161   | 186     | 204    | 457                           | 397   |
| <b>New Brunswick—</b>      |                          |         |        |            |       |         |        |                               |       |
| Moncton.....               | 20,689                   | 557     | 511    | 189        | 188   | 214     | 259    | 343                           | 252   |
| Saint John.....            | 47,514                   | 1,216   | 1,297  | 419        | 364   | 688     | 707    | 528                           | 590   |
| <b>Quebec—</b>             |                          |         |        |            |       |         |        |                               |       |
| Chicoutimi.....            | 11,877                   | 490     | 558    | 80         | 78    | 187     | 200    | 303                           | 358   |
| Granby.....                | 10,587                   | 388     | 378    | 97         | 83    | 142     | 124    | 246                           | 254   |
| Hull.....                  | 29,433                   | 985     | 874    | 214        | 195   | 399     | 362    | 586                           | 512   |
| Joliette.....              | 10,765                   | 343     | 352    | 70         | 68    | 192     | 156    | 151                           | 196   |
| Lachine.....               | 18,630                   | 491     | 411    | 96         | 83    | 198     | 177    | 293                           | 234   |
| Lévis.....                 | 11,724                   | 285     | 283    | 39         | 28    | 255     | 228    | 30                            | 55    |
| Montreal.....              | 818,577                  | 20,571  | 19,742 | 5,915      | 5,644 | 10,554  | 10,410 | 10,017                        | 9,332 |
| Outremont.....             | 28,641                   | 99      | 115    | 195        | 159   | 130     | 152    | —31                           | —37   |
| Quebec.....                | 130,594                  | 4,462   | 4,285  | 754        | 785   | 2,135   | 2,041  | 2,327                         | 2,244 |
| St. Hyacinthe.....         | 13,448                   | 371     | 363    | 85         | 81    | 295     | 327    | 76                            | 36    |
| St. Jean.....              | 11,256                   | 316     | 310    | 64         | 58    | 127     | 137    | 189                           | 173   |
| Shawinigan Falls.....      | 15,345                   | 625     | 624    | 54         | 46    | 177     | 148    | 448                           | 476   |
| Sherbrooke.....            | 28,933                   | 799     | 769    | 225        | 211   | 450     | 438    | 349                           | 331   |
| Sorel.....                 | 10,320                   | 315     | 279    | 55         | 40    | 156     | 130    | 159                           | 149   |
| Thetford Mines.....        | 10,701                   | 418     | 376    | 44         | 39    | 128     | 133    | 290                           | 243   |
| Three Rivers.....          | 35,450                   | 1,327   | 1,232  | 179        | 184   | 630     | 528    | 697                           | 704   |
| Valleyfield.....           | 11,411                   | 352     | 387    | 99         | 97    | 151     | 174    | 201                           | 213   |
| Verdun.....                | 60,745                   | 1,161   | 1,166  | 360        | 293   | 449     | 459    | 712                           | 707   |
| Westmount.....             | 24,235                   | 356     | 325    | 271        | 221   | 212     | 278    | 144                           | 47    |
| <b>Ontario—</b>            |                          |         |        |            |       |         |        |                               |       |
| Belleville.....            | 13,790                   | 424     | 365    | 133        | 122   | 230     | 244    | 194                           | 121   |
| Brantford.....             | 30,107                   | 686     | 641    | 274        | 239   | 380     | 352    | 306                           | 289   |
| Chatham.....               | 14,569                   | 456     | 461    | 163        | 183   | 313     | 311    | 143                           | 150   |
| Cornwall.....              | 11,126                   | 460     | 452    | 173        | 140   | 230     | 250    | 230                           | 202   |
| East Windsor.....          | 14,251                   | 302     | 287    | 63         | 67    | 53      | 51     | 246                           | 236   |
| Fort William.....          | 26,277                   | 657     | 593    | 225        | 192   | 216     | 201    | 441                           | 392   |
| Galt.....                  | 14,006                   | 321     | 309    | 95         | 86    | 148     | 191    | 173                           | 118   |
| Guelph.....                | 21,075                   | 363     | 366    | 169        | 154   | 234     | 233    | 129                           | 133   |
| Hamilton.....              | 155,547                  | 3,320   | 3,111  | 1,196      | 1,100 | 1,532   | 1,510  | 1,788                         | 1,601 |
| Kingston.....              | 23,439                   | 645     | 658    | 251        | 236   | 449     | 501    | 196                           | 157   |
| Kitchener.....             | 30,793                   | 851     | 729    | 265        | 230   | 318     | 385    | 533                           | 344   |
| London.....                | 71,148                   | 1,452   | 1,397  | 616        | 551   | 960     | 1,066  | 492                           | 331   |
| Niagara Falls.....         | 19,046                   | 463     | 402    | 205        | 159   | 212     | 192    | 251                           | 210   |
| North Bay.....             | 15,528                   | 408     | 398    | 124        | 123   | 139     | 151    | 269                           | 247   |
| Oshawa.....                | 23,439                   | 607     | 516    | 132        | 144   | 207     | 184    | 400                           | 332   |
| Ottawa.....                | 126,872                  | 3,047   | 3,027  | 1,040      | 944   | 1,709   | 1,727  | 1,338                         | 1,300 |
| Owen Sound.....            | 12,839                   | 338     | 296    | 103        | 130   | 177     | 197    | 161                           | 99    |
| Peterborough.....          | 22,327                   | 612     | 592    | 191        | 182   | 323     | 329    | 289                           | 263   |
| Port Arthur.....           | 19,818                   | 504     | 534    | 181        | 182   | 213     | 205    | 291                           | 329   |
| St. Catharines.....        | 24,753                   | 627     | 591    | 213        | 178   | 276     | 288    | 351                           | 303   |
| St. Thomas.....            | 15,430                   | 300     | 300    | 118        | 100   | 204     | 233    | 96                            | 67    |
| Sandwich.....              | 10,715                   | 168     | 132    | 57         | 57    | 58      | 51     | 110                           | 81    |
| Sarnia.....                | 18,191                   | 464     | 398    | 122        | 121   | 223     | 243    | 241                           | 155   |
| Sault Ste. Marie.....      | 23,082                   | 635     | 648    | 207        | 173   | 222     | 217    | 413                           | 431   |
| Stratford.....             | 17,742                   | 392     | 330    | 130        | 92    | 196     | 190    | 196                           | 140   |
| Sudbury.....               | 18,518                   | 830     | 796    | 238        | 186   | 253     | 242    | 577                           | 554   |
| Timmins.....               | 14,200                   | 531     | 519    | 154        | 159   | 182     | 157    | 349                           | 362   |
| Toronto.....               | 631,207                  | 12,709  | 12,095 | 6,485      | 5,906 | 6,745   | 6,627  | 5,964                         | 5,468 |
| Walkerville.....           | 10,105                   | 643     | 459    | 103        | 103   | 101     | 171    | 452                           | 288   |
| Welland.....               | 10,709                   | 303     | 275    | 135        | 142   | 151     | 129    | 152                           | 146   |
| Windsor.....               | 63,108                   | 1,242   | 1,099  | 634        | 572   | 551     | 549    | 691                           | 550   |
| Woodstock.....             | 11,395                   | 259     | 242    | 99         | 97    | 159     | 173    | 100                           | 69    |
| <b>Manitoba—</b>           |                          |         |        |            |       |         |        |                               |       |
| Brandon.....               | 17,082                   | 369     | 314    | 206        | 158   | 240     | 227    | 129                           | 87    |
| St. Boniface.....          | 16,305                   | 1,015   | 1,147  | 119        | 135   | 424     | 425    | 591                           | 722   |
| Winnipeg.....              | 218,785                  | 4,451   | 4,087  | 2,462      | 2,355 | 1,706   | 1,705  | 2,745                         | 2,382 |

## 2.—Summary of Births, Marriages, Deaths, and Natural Increase, in Cities and Towns of 10,000 Population and Over, 1931-32—concluded.

| Province and City or Town. | Census Population, 1931. | Births. |       | Marriages. |       | Deaths. |       | Excess of Births over Deaths. |       |
|----------------------------|--------------------------|---------|-------|------------|-------|---------|-------|-------------------------------|-------|
|                            |                          | 1931.   | 1932. | 1931.      | 1932. | 1931.   | 1932. | 1931.                         | 1932. |
|                            | No.                      | No.     | No.   | No.        | No.   | No.     | No.   | No.                           | No.   |
| <b>Saskatchewan—</b>       |                          |         |       |            |       |         |       |                               |       |
| Moose Jaw.....             | 21,299                   | 512     | 492   | 222        | 190   | 210     | 194   | 302                           | 298   |
| Regina.....                | 53,209                   | 1,511   | 1,262 | 690        | 620   | 455     | 469   | 1,056                         | 793   |
| Saskatoon.....             | 43,291                   | 1,144   | 1,009 | 655        | 623   | 432     | 467   | 712                           | 542   |
| <b>Alberta—</b>            |                          |         |       |            |       |         |       |                               |       |
| Calgary.....               | 83,761                   | 1,885   | 1,726 | 1,039      | 869   | 695     | 748   | 1,190                         | 978   |
| Edmonton.....              | 79,197                   | 2,400   | 2,320 | 1,214      | 1,178 | 797     | 921   | 1,603                         | 1,399 |
| Lethbridge.....            | 13,489                   | 572     | 526   | 213        | 184   | 166     | 197   | 406                           | 329   |
| Medicine Hat.....          | 10,300                   | 401     | 358   | 143        | 147   | 149     | 123   | 252                           | 235   |
| <b>British Columbia—</b>   |                          |         |       |            |       |         |       |                               |       |
| New Westminster...         | 17,524                   | 588     | 565   | 139        | 120   | 291     | 278   | 297                           | 287   |
| Vancouver.....             | 246,593                  | 3,730   | 3,450 | 1,767      | 1,633 | 2,300   | 2,301 | 1,430                         | 1,149 |
| Victoria.....              | 39,082                   | 688     | 700   | 302        | 265   | 526     | 541   | 162                           | 159   |

**Natural Increase by Sex.**—According to Table 3, the number of male children born in 1931, 1932 and 1933 in Canada exceeded the total male deaths for those years by 67,093, 64,929 and 59,663 respectively, while the gains in the female population during the same periods were 68,863, 66,360 and 61,237. Thus, while the number of male children born exceeded the females in each year the higher mortality among males resulted in a net excess of the natural increase of the females in every case.

## 3.—Births, Deaths and Natural Increase in Canada,<sup>1</sup> by Provinces and for each Sex, with Totals, 1931-33 and Average 1926-30.

| Year and Province.                       | Males.         |               |                               | Females.       |               |                               | Both Sexes.                   |
|------------------------------------------|----------------|---------------|-------------------------------|----------------|---------------|-------------------------------|-------------------------------|
|                                          | Births.        | Deaths.       | Excess of Births over Deaths. | Births.        | Deaths.       | Excess of Births over Deaths. | Excess of Births over Deaths. |
|                                          | No.            | No.           | No.                           | No.            | No.           | No.                           | No.                           |
| <b>1931.</b>                             |                |               |                               |                |               |                               |                               |
| Prince Edward Island..                   | 998            | 481           | 517                           | 881            | 431           | 450                           | 967                           |
| Nova Scotia.....                         | 5,931          | 3,095         | 2,836                         | 5,684          | 2,873         | 2,811                         | 5,647                         |
| New Brunswick.....                       | 5,548          | 2,449         | 3,099                         | 5,253          | 2,195         | 3,058                         | 6,157                         |
| Quebec.....                              | 43,051         | 18,067        | 24,984                        | 40,555         | 16,420        | 24,135                        | 49,119                        |
| Ontario.....                             | 35,609         | 19,137        | 16,472                        | 33,600         | 16,568        | 17,032                        | 33,504                        |
| Manitoba.....                            | 7,255          | 3,016         | 4,239                         | 7,121          | 2,303         | 4,818                         | 9,057                         |
| Saskatchewan.....                        | 10,942         | 3,443         | 7,499                         | 10,389         | 2,623         | 7,766                         | 15,265                        |
| Alberta.....                             | 8,938          | 3,095         | 5,843                         | 8,314          | 2,207         | 6,107                         | 11,950                        |
| British Columbia.....                    | 5,350          | 3,746         | 1,604                         | 5,054          | 2,368         | 2,686                         | 4,290                         |
| <b>1932.</b>                             |                |               |                               |                |               |                               |                               |
| Prince Edward Island..                   | 1,077          | 543           | 534                           | 950            | 508           | 442                           | 976                           |
| Nova Scotia.....                         | 6,049          | 3,232         | 2,817                         | 5,580          | 2,927         | 2,653                         | 5,470                         |
| New Brunswick.....                       | 5,529          | 2,420         | 3,109                         | 5,281          | 2,134         | 3,147                         | 6,256                         |
| Quebec.....                              | 42,380         | 17,274        | 25,106                        | 39,836         | 15,814        | 24,022                        | 49,128                        |
| Ontario.....                             | 34,166         | 19,196        | 14,970                        | 32,676         | 17,273        | 15,403                        | 30,373                        |
| Manitoba.....                            | 7,284          | 3,063         | 4,221                         | 6,840          | 2,278         | 4,562                         | 8,783                         |
| Saskatchewan.....                        | 10,687         | 3,469         | 7,218                         | 10,127         | 2,575         | 7,552                         | 14,770                        |
| Alberta.....                             | 8,713          | 3,248         | 5,465                         | 8,277          | 2,273         | 6,004                         | 11,469                        |
| British Columbia.....                    | 5,197          | 3,708         | 1,489                         | 5,017          | 2,442         | 2,575                         | 4,064                         |
| <b>1933.</b>                             |                |               |                               |                |               |                               |                               |
| Prince Edward Island..                   | 982            | 555           | 427                           | 964            | 477           | 487                           | 914                           |
| Nova Scotia.....                         | 5,694          | 3,157         | 2,537                         | 5,470          | 2,888         | 2,582                         | 5,119                         |
| New Brunswick.....                       | 5,235          | 2,601         | 2,634                         | 4,802          | 2,307         | 2,495                         | 5,129                         |
| Quebec.....                              | 39,330         | 16,455        | 22,875                        | 37,590         | 15,181        | 22,409                        | 45,284                        |
| Ontario.....                             | 32,630         | 18,489        | 14,141                        | 31,016         | 16,812        | 14,204                        | 28,345                        |
| Manitoba.....                            | 6,872          | 3,092         | 3,780                         | 6,432          | 2,363         | 4,069                         | 7,849                         |
| Saskatchewan.....                        | 10,353         | 3,367         | 6,986                         | 9,792          | 2,657         | 7,135                         | 14,121                        |
| Alberta.....                             | 8,321          | 3,165         | 5,156                         | 7,802          | 2,181         | 5,621                         | 10,777                        |
| British Columbia.....                    | 4,971          | 3,844         | 1,127                         | 4,612          | 2,377         | 2,235                         | 3,362                         |
| <b>Canada<sup>1</sup> Av. 1926-30...</b> | <b>121,552</b> | <b>58,351</b> | <b>63,201</b>                 | <b>114,968</b> | <b>50,573</b> | <b>64,395</b>                 | <b>127,596</b>                |
| <b>Totals, 1931...</b>                   | <b>123,622</b> | <b>56,529</b> | <b>67,093</b>                 | <b>116,851</b> | <b>47,988</b> | <b>68,863</b>                 | <b>135,956</b>                |
| <b>Totals, 1932...</b>                   | <b>121,082</b> | <b>56,153</b> | <b>64,929</b>                 | <b>114,584</b> | <b>48,224</b> | <b>66,360</b>                 | <b>131,289</b>                |
| <b>Totals, 1933...</b>                   | <b>114,388</b> | <b>54,725</b> | <b>59,663</b>                 | <b>108,480</b> | <b>47,243</b> | <b>61,237</b>                 | <b>120,900</b>                |

<sup>1</sup>Exclusive of the Territories.



## Section 2.—Births.

Throughout almost the whole of the civilized world the birth rate has, in the past generation, been on the decline, though the consequent reduction in the rate of natural increase has been partly offset by the synchronous decline in the death rate.

The crude birth rate of England and Wales, for example, was 35.4 per 1,000 population on the average of the decennium 1871-80, 32.5 in 1881-90 and 29.9 in 1891-1900. In 1913 the birth rate was 24.1, and, though it rose to 25.5 in 1920, it fell again to 22.4 in 1921, 19.7 in 1923, thence by successive stages to 16.6 in 1927, rising to 16.7 in 1928, but thereafter falling gradually each year to 15.3 in 1932.

Similarly, in France the crude birth rate declined from an average of 25.4 per 1,000 population in the 1870's, 23.9 in the 1880's and 22.2 in the 1890's to 21.4 in 1920 and 19.1 in 1923, falling slightly to 19.0 in 1925 and again to 18.8 in 1926, 18.1 in 1930, 17.5 in 1931 and 17.3 in 1932. In Germany, again, the crude birth rate was 39.1 in the 1870's, 36.8 in the 1880's, 36.1 in the 1890's, 25.9 in 1920, 20.7 in 1925, 17.5 in 1930, 16.0 in 1931 and 15.1 in 1932.

In Canada the crude birth rate still stands at a comparatively high figure, being 20.9 per 1,000 in 1933. This, however, is largely due to the influence of Quebec, where the rate, although declining, still stood at 25.9 per 1,000 in 1933, as compared with 18.1 per 1,000 in Ontario. In the other provinces the figures varied from lows of 13.5 and 18.4 per 1,000 in British Columbia and Manitoba to highs of 21.3 and 23.9 in Alberta and New Brunswick respectively.

Statistics of births and birth rates for the years 1931-33 with averages for 1921-25 and 1926-30 are given by provinces in Table 4. The averages for the former period are exclusive of the province of Quebec which was not then in the registration area.

### 4.—Numbers of Live Births and Birth Rates, by Provinces, 1931-33, with Averages, 1921-25 and 1926-30.

#### A.—NUMBERS OF LIVE BIRTHS.

| Year.                  | P.E.I. | N.S.   | N.B.   | Que.         | Ont.   | Man.   | Sask.  | Alta.  | B.C.   | Canada.      |
|------------------------|--------|--------|--------|--------------|--------|--------|--------|--------|--------|--------------|
| Averages, 1921-25..... | 1,966  | 12,119 | 11,080 | <sup>1</sup> | 71,454 | 16,590 | 21,580 | 15,461 | 10,256 | <sup>1</sup> |
| Averages, 1926-30..... | 1,734  | 11,016 | 10,327 | 82,771       | 68,703 | 14,391 | 21,298 | 15,924 | 10,356 | 236,520      |
| 1931.....              | 1,879  | 11,615 | 10,801 | 83,606       | 69,209 | 14,376 | 21,331 | 17,252 | 10,404 | 240,473      |
| 1932.....              | 2,027  | 11,629 | 10,810 | 82,216       | 66,842 | 14,124 | 20,814 | 16,990 | 10,214 | 235,666      |
| 1933.....              | 1,946  | 11,164 | 10,037 | 76,920       | 63,646 | 13,304 | 20,145 | 16,123 | 9,583  | 222,868      |

#### B.—BIRTH RATES PER 1,000 POPULATION.

|                        | P.E.I. | N.S. | N.B. | Que.         | Ont. | Man. | Sask. | Alta. | B.C. | Canada.      |
|------------------------|--------|------|------|--------------|------|------|-------|-------|------|--------------|
| Averages, 1921-25..... | 22.6   | 23.4 | 28.4 | <sup>1</sup> | 23.7 | 26.8 | 27.7  | 26.0  | 18.4 | <sup>1</sup> |
| Averages, 1926-30..... | 19.7   | 21.4 | 25.8 | 30.5         | 21.0 | 21.7 | 24.7  | 24.2  | 16.2 | 24.1         |
| 1931.....              | 21.3   | 22.6 | 26.5 | 29.1         | 20.2 | 20.5 | 23.1  | 23.6  | 15.0 | 23.2         |
| 1932.....              | 22.8   | 22.4 | 26.2 | 28.3         | 19.2 | 19.9 | 22.3  | 23.0  | 14.5 | 22.5         |
| 1933.....              | 21.9   | 21.4 | 23.9 | 25.9         | 18.1 | 18.4 | 21.2  | 21.3  | 13.5 | 20.9         |

<sup>1</sup> Quebec was not included in the registration area prior to 1926.

Table 5 gives the number of live births in cities and towns of 10,000 population and over for the years 1929 to 1933 inclusive. For recent years previous to 1930 there was a definite tendency for such births to increase but the figures given clearly show that the trend has been in the opposite direction since that year.

5.—Live Births in Cities and Towns of 10,000 Population and Over, 1929-33.<sup>1</sup>

| City or Town.              | 1929.  | 1930.  | 1931.  | 1932.  | 1933.  |
|----------------------------|--------|--------|--------|--------|--------|
| No.                        | No.    | No.    | No.    | No.    | No.    |
| Belleville, Ont.....       | 366    | 395    | 424    | 365    | 349    |
| Brandon, Man.....          | 406    | 374    | 369    | 314    | 297    |
| Brantford, Ont.....        | 712    | 732    | 686    | 641    | 630    |
| Calgary, Alta.....         | 2,006  | 2,064  | 1,885  | 1,726  | 1,624  |
| Charlottetown, P.E.I.....  | 266    | 336    | 371    | 388    | 337    |
| Chatham, Ont.....          | 475    | 565    | 456    | 461    | 468    |
| Chicoutimi, Que.....       | 555    | 498    | 490    | 558    | 499    |
| Cornwall, Ont.....         | 492    | 482    | 460    | 452    | 465    |
| East Windsor, Ont.....     | 403    | 372    | 302    | 287    | 296    |
| Edmonton, Alta.....        | 2,271  | 2,391  | 2,400  | 2,320  | 2,085  |
| Fort William, Ont.....     | 645    | 623    | 657    | 593    | 535    |
| Galt, Ont.....             | 284    | 311    | 321    | 309    | 282    |
| Glace Bay, N.S.....        | 667    | 745    | 693    | 724    | 602    |
| Granby, Que.....           | 334    | 338    | 388    | 378    | 348    |
| Guelph, Ont.....           | 380    | 409    | 363    | 366    | 356    |
| Halifax, N.S.....          | 1,454  | 1,555  | 1,651  | 1,620  | 1,591  |
| Hamilton, Ont.....         | 3,166  | 3,394  | 3,320  | 3,111  | 2,864  |
| Hull, Que.....             | 906    | 1,019  | 985    | 874    | 852    |
| Joliette, Que.....         | 317    | 332    | 343    | 352    | 334    |
| Kingston, Ont.....         | 619    | 659    | 645    | 558    | 685    |
| Kitchener, Ont.....        | 812    | 829    | 851    | 729    | 693    |
| Lachine, Que.....          | 464    | 417    | 491    | 411    | 373    |
| Lethbridge, Alta.....      | 487    | 581    | 572    | 526    | 517    |
| Lévis, Que.....            | 310    | 309    | 285    | 283    | 261    |
| London, Ont.....           | 1,364  | 1,485  | 1,452  | 1,397  | 1,281  |
| Medicine Hat, Alta.....    | 451    | 462    | 401    | 358    | 320    |
| Moncton, N.B.....          | 561    | 525    | 557    | 511    | 463    |
| Montreal, Que.....         | 20,622 | 21,044 | 20,571 | 19,742 | 18,449 |
| Moose Jaw, Sask.....       | 629    | 566    | 512    | 492    | 463    |
| New Westminster, B.C.....  | 537    | 555    | 588    | 565    | 535    |
| Niagara Falls, Ont.....    | 501    | 438    | 463    | 402    | 398    |
| North Bay, Ont.....        | 406    | 417    | 408    | 398    | 387    |
| Oshawa, Ont.....           | 727    | 686    | 607    | 516    | 469    |
| Ottawa, Ont.....           | 2,924  | 3,028  | 3,047  | 3,027  | 2,873  |
| Outremont, Que.....        | 127    | 123    | 99     | 115    | 94     |
| Owen Sound, Ont.....       | 376    | 313    | 338    | 296    | 316    |
| Peterborough, Ont.....     | 617    | 639    | 612    | 592    | 567    |
| Port Arthur, Ont.....      | 582    | 564    | 504    | 534    | 518    |
| Quebec, Que.....           | 4,456  | 4,454  | 4,462  | 4,285  | 4,049  |
| Regina, Sask.....          | 1,517  | 1,664  | 1,511  | 1,262  | 1,174  |
| St. Boniface, Man.....     | 893    | 980    | 1,015  | 1,147  | 1,028  |
| St. Catharines, Ont.....   | 570    | 671    | 627    | 691    | 573    |
| St. Hyacinthe, Que.....    | 362    | 376    | 371    | 363    | 339    |
| St. Jean, Que.....         | 306    | 326    | 316    | 310    | 278    |
| Saint John, N.B.....       | 1,150  | 1,224  | 1,216  | 1,297  | 1,127  |
| St. Thomas, Ont.....       | 306    | 322    | 300    | 300    | 258    |
| Sandwich, Ont.....         | 208    | 196    | 168    | 132    | 149    |
| Sarnia, Ont.....           | 470    | 450    | 464    | 398    | 378    |
| Saskatoon, Sask.....       | 1,137  | 1,235  | 1,144  | 1,009  | 892    |
| Sault Ste. Marie, Ont..... | 665    | 642    | 635    | 648    | 564    |
| Shawinigan Falls, Que..... | 642    | 653    | 625    | 624    | 559    |
| Sherbrooke, Que.....       | 818    | 832    | 799    | 769    | 730    |
| Sorel, Que.....            | 293    | 303    | 315    | 279    | 246    |
| Stratford, Ont.....        | 377    | 406    | 392    | 330    | 307    |
| Sudbury, Ont.....          | 565    | 720    | 830    | 796    | 717    |
| Sydney, N.S.....           | 502    | 615    | 643    | 601    | 512    |
| Thetford Mines, Que.....   | 510    | 531    | 418    | 376    | 305    |
| Three Rivers, Que.....     | 1,289  | 1,350  | 1,327  | 1,232  | 1,050  |
| Timmins, Ont.....          | 533    | 506    | 531    | 519    | 545    |
| Toronto, Ont.....          | 12,485 | 13,591 | 12,709 | 12,095 | 11,286 |
| Valleyfield, Que.....      | 294    | 340    | 352    | 387    | 326    |
| Vancouver, B.C.....        | 3,869  | 4,003  | 3,730  | 3,450  | 3,188  |
| Verdun, Que.....           | 1,095  | 1,129  | 1,161  | 1,166  | 1,003  |
| Victoria, B.C.....         | 754    | 734    | 688    | 700    | 674    |
| Walkerville, Ont.....      | 624    | 661    | 643    | 459    | 393    |
| Welland, Ont.....          | 318    | 298    | 303    | 275    | 292    |
| Westmount, Que.....        | 51     | 365    | 356    | 325    | 305    |
| Windsor, Ont.....          | 1,654  | 1,510  | 1,242  | 1,099  | 1,085  |
| Winnipeg, Man.....         | 4,452  | 4,629  | 4,451  | 4,087  | 3,786  |
| Woodstock, Ont.....        | 274    | 272    | 259    | 242    |        |

<sup>1</sup>Live Births in cities of 40,000 population and over, except Montreal and Quebec, are given for 1921-28 on p. 137 in the Canada Year Book of 1930. Those in cities of 10,000 and over for 1926-28 appear at p. 141 of the 1931 Year Book.

**Nativity of Mothers.**—In Table 6 will be found for each of the provinces the percentages of legitimate children born alive to Canadian-born, British-born and foreign-born mothers respectively in 1931 and 1932. It is noteworthy that children born to foreign-born mothers outnumbered children born to Canadian-born mothers in the province of Alberta in 1931 but this condition was reversed and Alberta fell into line with all the other provinces in this respect in 1932. For the Dominion as a whole, in the respective years 73.9 p.c. and 75.5 p.c. of the children of mothers whose birthplaces were known had Canadian-born mothers, 11.1 p.c. and 10.3 p.c. British-born mothers and 15.0 p.c. and 14.3 p.c. foreign-born mothers.

It is also significant that the percentage of legitimate children born alive to Canadian-born mothers between 1921 and 1932 increased from 42.3 p.c. to 60.3 p.c. in Manitoba, from 36.1 p.c. to 51.9 p.c. in Saskatchewan, from 30.0 p.c. to 43.5 p.c. in Alberta, and from 29.7 p.c. to 48.6 p.c. in British Columbia. Thus more and more of the children of the West are coming within the class of third generation Canadians.

**6.—Percentages of Legitimate Children Born Alive to Canadian-Born, British-Born or Foreign-Born Mothers, by Provinces, 1931-32.**

| Province.                                         | Nativity of Mothers. |             |               |             |               |             |
|---------------------------------------------------|----------------------|-------------|---------------|-------------|---------------|-------------|
|                                                   | Canadian-born.       |             | British-born. |             | Foreign-born. |             |
|                                                   | 1931.                | 1932.       | 1931.         | 1932.       | 1931.         | 1932.       |
|                                                   | p.c.                 | p.c.        | p.c.          | p.c.        | p.c.          | p.c.        |
| Prince Edward Island.....                         | 94.8                 | 94.4        | 1.8           | 1.8         | 3.4           | 3.8         |
| Nova Scotia.....                                  | 86.2                 | 87.2        | 9.8           | 9.0         | 3.9           | 3.7         |
| New Brunswick.....                                | 92.0                 | 92.7        | 3.6           | 3.0         | 4.4           | 4.3         |
| Quebec.....                                       | 93.3                 | 93.7        | 2.6           | 2.4         | 4.1           | 3.9         |
| Ontario.....                                      | 68.6                 | 70.3        | 18.9          | 18.0        | 12.4          | 11.7        |
| Manitoba.....                                     | 57.2                 | 60.3        | 13.6          | 12.1        | 29.1          | 27.7        |
| Saskatchewan.....                                 | 49.2                 | 51.9        | 11.1          | 10.1        | 39.7          | 38.0        |
| Alberta.....                                      | 41.7                 | 43.5        | 14.7          | 14.1        | 43.5          | 42.4        |
| British Columbia.....                             | 44.3                 | 48.6        | 28.2          | 25.9        | 27.5          | 25.5        |
| <b>Canada (Exclusive of the Territories).....</b> | <b>73.9</b>          | <b>75.5</b> | <b>11.1</b>   | <b>10.3</b> | <b>15.0</b>   | <b>14.3</b> |

**Sex of Live Births.**—Table 7 shows the number and proportion of live male and female births reported for each province in Canada during the calendar years 1931, 1932 and 1933, with averages for the five-year periods 1921-25 and 1926-30. The figures for Quebec commence only with the year 1926 when that province entered the registration area, and the totals for Canada are limited in the same manner in consequence. Every province shows an excess of male births although individual figures for 1928 gave a slight excess of female births in British Columbia. The table shows that among every 1,000 born in 1933 in the whole of Canada, 513 were males and 487 females. In other words, there were 1,054 males born to every 1,000 females.

### 7.—Births (Exclusive of Stillbirths) by Sex, and Ratio of Males to Females, for Canada and by Provinces, 1931-33, with Averages for 1921-25 and 1926-30.

NOTE.—For corresponding figures for single years 1921-25, see p. 165 of the Canada Year Book for 1927-28, and for those for 1926-30, p. 156 of the Canada Year Book for 1933.

| Province and Year.                         | Total.      | Males.  |                    | Females. |                    | Males to 1,000 Females. |       |
|--------------------------------------------|-------------|---------|--------------------|----------|--------------------|-------------------------|-------|
|                                            |             | Number. | Per cent of Total. | Number.  | Per cent of Total. |                         |       |
| Prince Edward Island.....                  | Av. 1921-25 | 1,966   | 993                | 50.5     | 973                | 49.5                    | 1,021 |
|                                            | Av. 1926-30 | 1,734   | 898                | 51.8     | 836                | 48.2                    | 1,074 |
|                                            | 1931        | 1,879   | 998                | 53.1     | 881                | 46.9                    | 1,133 |
|                                            | 1932        | 2,027   | 1,077              | 53.1     | 950                | 46.9                    | 1,133 |
|                                            | 1933        | 1,946   | 982                | 50.5     | 964                | 49.5                    | 1,019 |
| Nova Scotia.....                           | Av. 1921-25 | 12,119  | 6,275              | 51.8     | 5,844              | 48.2                    | 1,074 |
|                                            | Av. 1926-30 | 11,016  | 5,653              | 51.3     | 5,363              | 48.7                    | 1,054 |
|                                            | 1931        | 11,615  | 5,931              | 51.1     | 5,684              | 48.9                    | 1,043 |
|                                            | 1932        | 11,629  | 6,049              | 52.0     | 5,580              | 48.0                    | 1,084 |
|                                            | 1933        | 11,164  | 5,694              | 51.0     | 5,470              | 49.0                    | 1,041 |
| New Brunswick.....                         | Av. 1921-25 | 11,080  | 5,708              | 51.5     | 5,372              | 48.5                    | 1,063 |
|                                            | Av. 1926-30 | 10,327  | 5,292              | 51.2     | 5,035              | 48.8                    | 1,051 |
|                                            | 1931        | 10,801  | 5,548              | 51.4     | 5,253              | 48.6                    | 1,056 |
|                                            | 1932        | 10,810  | 5,529              | 51.1     | 5,281              | 48.9                    | 1,047 |
|                                            | 1933        | 10,037  | 5,235              | 52.2     | 4,802              | 47.8                    | 1,090 |
| Quebec <sup>1</sup> .....                  | Av. 1926-30 | 82,771  | 42,644             | 51.5     | 40,127             | 48.5                    | 1,063 |
|                                            | 1931        | 83,606  | 43,051             | 51.5     | 40,555             | 48.5                    | 1,062 |
|                                            | 1932        | 82,216  | 42,380             | 51.5     | 39,836             | 48.5                    | 1,064 |
|                                            | 1933        | 76,920  | 39,330             | 51.1     | 37,590             | 48.9                    | 1,046 |
| Ontario.....                               | Av. 1921-25 | 71,454  | 36,725             | 51.4     | 34,729             | 48.6                    | 1,057 |
|                                            | Av. 1926-30 | 68,703  | 35,268             | 51.3     | 33,435             | 48.7                    | 1,055 |
|                                            | 1931        | 69,209  | 35,609             | 51.5     | 33,600             | 48.5                    | 1,060 |
|                                            | 1932        | 66,842  | 34,166             | 51.1     | 32,676             | 48.9                    | 1,046 |
|                                            | 1933        | 63,646  | 32,630             | 51.3     | 31,016             | 48.7                    | 1,052 |
| Manitoba.....                              | Av. 1921-25 | 16,590  | 8,443              | 50.9     | 8,147              | 49.1                    | 1,036 |
|                                            | Av. 1926-30 | 14,391  | 7,399              | 51.4     | 6,992              | 48.6                    | 1,058 |
|                                            | 1931        | 14,376  | 7,255              | 50.5     | 7,121              | 49.5                    | 1,019 |
|                                            | 1932        | 14,124  | 7,284              | 51.6     | 6,840              | 48.4                    | 1,065 |
|                                            | 1933        | 13,304  | 6,872              | 51.7     | 6,432              | 48.3                    | 1,068 |
| Saskatchewan.....                          | Av. 1921-25 | 21,580  | 11,119             | 51.5     | 10,461             | 48.5                    | 1,063 |
|                                            | Av. 1926-30 | 21,298  | 10,979             | 51.5     | 10,319             | 48.5                    | 1,064 |
|                                            | 1931        | 21,331  | 10,942             | 51.3     | 10,389             | 48.7                    | 1,053 |
|                                            | 1932        | 20,814  | 10,687             | 51.3     | 10,127             | 48.7                    | 1,055 |
|                                            | 1933        | 20,145  | 10,353             | 51.4     | 9,792              | 48.6                    | 1,057 |
| Alberta.....                               | Av. 1921-25 | 15,461  | 7,887              | 51.0     | 7,574              | 49.0                    | 1,041 |
|                                            | Av. 1926-30 | 15,924  | 8,153              | 51.2     | 7,771              | 48.8                    | 1,049 |
|                                            | 1931        | 17,252  | 8,938              | 51.8     | 8,314              | 48.2                    | 1,075 |
|                                            | 1932        | 16,990  | 8,713              | 51.3     | 8,277              | 48.7                    | 1,053 |
|                                            | 1933        | 16,123  | 8,321              | 51.6     | 7,802              | 48.4                    | 1,067 |
| British Columbia.....                      | Av. 1921-25 | 10,256  | 5,310              | 51.8     | 4,946              | 48.2                    | 1,074 |
|                                            | Av. 1926-30 | 10,356  | 5,266              | 50.8     | 5,090              | 49.2                    | 1,035 |
|                                            | 1931        | 10,404  | 5,350              | 51.4     | 5,054              | 48.6                    | 1,059 |
|                                            | 1932        | 10,214  | 5,197              | 50.9     | 5,017              | 49.1                    | 1,036 |
|                                            | 1933        | 9,583   | 4,971              | 51.9     | 4,612              | 48.1                    | 1,078 |
| Canada (Exclusive of the Territories)..... | Av. 1926-30 | 236,529 | 121,552            | 51.4     | 114,968            | 48.6                    | 1,057 |
|                                            | 1931        | 240,473 | 123,622            | 51.4     | 116,851            | 48.6                    | 1,058 |
|                                            | 1932        | 235,666 | 121,082            | 51.4     | 114,584            | 48.6                    | 1,057 |
|                                            | 1933        | 222,868 | 114,383            | 51.3     | 108,485            | 48.7                    | 1,054 |

<sup>1</sup>Quebec was not included in the registration area prior to 1926.

**Ages of Parents.**—Table 8 shows the age distribution of married fathers and mothers in the year 1926 (the first year for which the figures are available for the whole of Canada) and for 1930-32. The fathers and mothers in each of these years



are arranged according to age and then divided into four equal groups. Each point of age at which a separation comes is called a quartile. To obtain these points of age it is assumed that those in the same year of age are evenly distributed from its lower to its upper limit. In similar manner the deciles divide fathers or mothers in each census year into ten equal groups.

In 1932 one-quarter of the married fathers were under 27·91 years of age, one-half under 32·67 years and three-quarters under 38·78 years. One-quarter of the married mothers were under 24·13 years of age, one-half under 28·45 years and three-quarters under 33·84 years. Nine-tenths of the fathers were under 44·28 years and nine-tenths of the mothers under 38·50 years. It will be noted that the general tendency of the quartile and decile points over the seven years is in a downward direction. In other words, parents generally speaking are gradually becoming younger although in individual years the trend has been reversed.

**8.—Quartile and Decile Ages of Married Fathers and Mothers, in Canada, 1926, 1930-32.**

| Position in Array, by Age. | Fathers. |       |       |       | Mothers. |       |       |       |
|----------------------------|----------|-------|-------|-------|----------|-------|-------|-------|
|                            | 1926.    | 1930. | 1931. | 1932. | 1926.    | 1930. | 1931. | 1932. |
| First quartile.....Yrs.    | 28·35    | 27·84 | 27·86 | 27·91 | 24·43    | 24·03 | 24·07 | 24·13 |
| Second quartile.....“      | 33·31    | 32·73 | 32·59 | 32·67 | 28·89    | 28·42 | 28·37 | 28·45 |
| Third quartile.....“       | 39·01    | 38·76 | 38·69 | 38·78 | 34·26    | 33·89 | 33·79 | 33·84 |
| First decile.....“         | 24·91    | 24·54 | 24·58 | 24·64 | 21·41    | 21·20 | 21·20 | 21·22 |
| Second decile.....“        | 27·28    | 26·83 | 26·86 | 26·93 | 23·50    | 23·16 | 23·19 | 23·24 |
| Third decile.....“         | 29·35    | 28·80 | 28·78 | 28·83 | 25·34    | 24·88 | 24·91 | 24·97 |
| Fourth decile.....“        | 31·28    | 30·64 | 30·66 | 30·71 | 27·79    | 26·59 | 26·60 | 26·67 |
| Fifth decile.....“         | 33·31    | 32·73 | 32·59 | 32·67 | 28·89    | 28·42 | 28·37 | 28·45 |
| Sixth decile.....“         | 35·48    | 34·96 | 34·87 | 34·89 | 30·82    | 30·36 | 30·33 | 30·37 |
| Seventh decile.....“       | 37·81    | 37·41 | 37·34 | 37·43 | 33·41    | 32·64 | 32·54 | 32·61 |
| Eighth decile.....“        | 40·40    | 40·21 | 40·17 | 40·29 | 35·61    | 35·26 | 35·18 | 35·24 |
| Ninth decile.....“         | 44·19    | 44·09 | 44·03 | 44·28 | 38·69    | 38·48 | 38·41 | 38·50 |

**Birthplace of Parents.**—Table 9 classifies the children born in 1931 by country of birth of parents, and furnishes some idea to what extent the coming generation of Canadian born will be the offspring of Canadian-born, British-born or foreign-born parents. The term “country not specified”, under country of birth, includes for the father illegitimate births and births of incomplete record, while for the mother it includes births of incomplete record only. Between 1926 and 1932 the percentage of births where both parents were born in Canada rose from 61·4 to 63·0.

**9.—Numbers and Percentages of Births (Exclusive of Stillbirths) in Canada to Fathers and Mothers Born in Specified Countries, 1931.**

| Country of Birth of Parents.  | Numbers of Births with<br>Father, Mother or Both<br>Parents Born in Specified<br>Country. |                |                  | Percentages of Births with<br>Father, Mother or Both<br>Parents Born in Specified<br>Country. |              |                  |
|-------------------------------|-------------------------------------------------------------------------------------------|----------------|------------------|-----------------------------------------------------------------------------------------------|--------------|------------------|
|                               | Father.                                                                                   | Mother.        | Both<br>Parents. | Father.                                                                                       | Mother.      | Both<br>Parents. |
|                               | No.                                                                                       | No.            | No.              | p.c.                                                                                          | p.c.         | p.c.             |
| <b>Canada</b> .....           | <b>164,263</b>                                                                            | <b>177,197</b> | <b>148,886</b>   | <b>68.3</b>                                                                                   | <b>73.7</b>  | <b>61.9</b>      |
| England.....                  | 16,522                                                                                    | 15,045         | 6,959            | 6.9                                                                                           | 6.3          | 2.9              |
| Ireland.....                  | 2,860                                                                                     | 2,491          | 1,120            | 1.2                                                                                           | 1.0          | 0.5              |
| Scotland.....                 | 6,391                                                                                     | 6,888          | 2,817            | 2.7                                                                                           | 2.9          | 1.2              |
| Wales.....                    | 612                                                                                       | 515            | 149              | 0.3                                                                                           | 0.2          | 0.1              |
| Other British Isles.....      | 81                                                                                        | 45             | 9                | z                                                                                             | z            | z                |
| Newfoundland.....             | 1,126                                                                                     | 1,052          | 515              | 0.5                                                                                           | 0.4          | 0.2              |
| Other British Empire.....     | 527                                                                                       | 373            | 132              | 0.2                                                                                           | 0.2          | 0.1              |
| Austria.....                  | 3,016                                                                                     | 2,333          | 1,774            | 1.3                                                                                           | 1.0          | 0.7              |
| Belgium.....                  | 565                                                                                       | 475            | 292              | 0.2                                                                                           | 0.2          | 0.1              |
| Finland.....                  | 675                                                                                       | 706            | 522              | 0.3                                                                                           | 0.3          | 0.2              |
| France.....                   | 388                                                                                       | 311            | 107              | 0.2                                                                                           | 0.1          | z                |
| Germany.....                  | 1,119                                                                                     | 1,056          | 552              | 0.5                                                                                           | 0.4          | 0.2              |
| Hungary.....                  | 1,215                                                                                     | 1,128          | 977              | 0.5                                                                                           | 0.5          | 0.4              |
| Italy.....                    | 2,289                                                                                     | 1,618          | 1,513            | 1.0                                                                                           | 0.7          | 0.6              |
| Norway.....                   | 938                                                                                       | 685            | 423              | 0.4                                                                                           | 0.3          | 0.2              |
| Poland.....                   | 6,152                                                                                     | 5,856          | 4,690            | 2.6                                                                                           | 2.4          | 2.0              |
| Russia <sup>1</sup> .....     | 5,514                                                                                     | 4,614          | 3,488            | 2.3                                                                                           | 1.9          | 1.5              |
| Sweden.....                   | 894                                                                                       | 586            | 325              | 0.4                                                                                           | 0.2          | 0.1              |
| Other European countries..... | 4,576                                                                                     | 3,498          | 2,717            | 1.9                                                                                           | 1.5          | 1.1              |
| China and Japan.....          | 1,061                                                                                     | 950            | 893              | 0.4                                                                                           | 0.4          | 0.4              |
| Other Asiatic countries.....  | 293                                                                                       | 202            | 181              | 0.1                                                                                           | 0.1          | 0.1              |
| United States.....            | 10,712                                                                                    | 11,366         | 3,222            | 4.5                                                                                           | 4.7          | 1.3              |
| Country not specified.....    | 8,684                                                                                     | 1,483          | 165              | 3.6                                                                                           | 0.6          | 0.1              |
| <b>Totals</b> .....           | <b>240,473</b>                                                                            | <b>240,473</b> | <b>182,428</b>   | <b>100.0</b>                                                                                  | <b>100.0</b> | <b>75.9</b>      |

For footnotes see end of Table 9A.

**9A.—Numbers and Percentages of Births (Exclusive of Stillbirths) in Canada to Fathers and Mothers Born in Specified Countries, 1932.**

| Country of Birth of Parents.  | Numbers of Births with<br>Father, Mother or Both<br>Parents Born in Specified<br>Country. |                |                  | Percentages of Births with<br>Father, Mother or Both<br>Parents Born in Specified<br>Country. |              |                  |
|-------------------------------|-------------------------------------------------------------------------------------------|----------------|------------------|-----------------------------------------------------------------------------------------------|--------------|------------------|
|                               | Father.                                                                                   | Mother.        | Both<br>Parents. | Father.                                                                                       | Mother.      | Both<br>Parents. |
|                               | No.                                                                                       | No.            | No.              | p.c.                                                                                          | p.c.         | p.c.             |
| <b>Canada</b> .....           | <b>163,484</b>                                                                            | <b>177,556</b> | <b>148,574</b>   | <b>69.4</b>                                                                                   | <b>75.3</b>  | <b>63.0</b>      |
| England.....                  | 15,086                                                                                    | 13,497         | 5,891            | 6.4                                                                                           | 5.7          | 2.5              |
| Ireland.....                  | 2,619                                                                                     | 2,279          | 980              | 1.1                                                                                           | 1.0          | 0.4              |
| Scotland.....                 | 5,996                                                                                     | 6,325          | 2,469            | 2.5                                                                                           | 2.7          | 1.0              |
| Wales.....                    | 576                                                                                       | 508            | 119              | 0.2                                                                                           | 0.2          | 0.1              |
| Other British Isles.....      | 77                                                                                        | 41             | 4                | z                                                                                             | z            | z                |
| Newfoundland.....             | 1,006                                                                                     | 1,030          | 459              | 0.4                                                                                           | 0.4          | 0.2              |
| Other British Empire.....     | 470                                                                                       | 352            | 128              | 0.2                                                                                           | 0.1          | 0.1              |
| Austria.....                  | 2,733                                                                                     | 2,030          | 1,518            | 1.2                                                                                           | 0.9          | 0.6              |
| Belgium.....                  | 508                                                                                       | 445            | 272              | 0.2                                                                                           | 0.2          | 0.1              |
| Finland.....                  | 523                                                                                       | 572            | 386              | 0.2                                                                                           | 0.2          | 0.2              |
| France.....                   | 422                                                                                       | 315            | 139              | 0.2                                                                                           | 0.1          | 0.1              |
| Germany.....                  | 1,096                                                                                     | 966            | 509              | 0.5                                                                                           | 0.4          | 0.2              |
| Hungary.....                  | 1,163                                                                                     | 1,075          | 921              | 0.5                                                                                           | 0.5          | 0.4              |
| Italy.....                    | 2,086                                                                                     | 1,398          | 1,312            | 0.9                                                                                           | 0.6          | 0.6              |
| Norway.....                   | 915                                                                                       | 658            | 403              | 0.4                                                                                           | 0.3          | 0.2              |
| Poland.....                   | 6,147                                                                                     | 5,683          | 4,577            | 2.6                                                                                           | 2.4          | 1.9              |
| Russia <sup>1</sup> .....     | 5,131                                                                                     | 4,193          | 3,088            | 2.2                                                                                           | 1.8          | 1.3              |
| Sweden.....                   | 854                                                                                       | 513            | 285              | 0.4                                                                                           | 0.2          | 0.1              |
| Other European countries..... | 4,529                                                                                     | 3,322          | 2,553            | 1.9                                                                                           | 1.4          | 1.1              |
| China and Japan.....          | 940                                                                                       | 804            | 702              | 0.4                                                                                           | 0.3          | 0.3              |
| Other Asiatic countries.....  | 227                                                                                       | 172            | 146              | 0.1                                                                                           | 0.1          | 0.1              |
| United States.....            | 10,364                                                                                    | 10,842         | 3,092            | 4.4                                                                                           | 4.6          | 1.3              |
| Country not specified.....    | 8,714                                                                                     | 1,090          | 124              | 3.7                                                                                           | 0.5          | 0.1              |
| <b>Totals</b> .....           | <b>235,666</b>                                                                            | <b>235,666</b> | <b>178,711</b>   | <b>100.0</b>                                                                                  | <b>100.0</b> | <b>75.8</b>      |

<sup>1</sup>Includes the Ukraine. <sup>2</sup>Less than one-tenth of one per cent. <sup>3</sup>This figure gives the number of children whose fathers and mothers were born in the same country. <sup>4</sup>The difference between this figure and the total number of births represents the number of children whose fathers and mothers were born in different countries. <sup>5</sup>This excludes the percentage of "mixed parentage", i.e., where the two parents were not born in the same country.

**Origins of Parents.**—Tables 10 and 10A give the numbers and percentages of births for 1931 and 1932, distributed by the principal origins.

**10.—Numbers and Percentages of Births (Exclusive of Stillbirths) in Canada to Fathers and Mothers of Specified Origins, 1931.**

| Origin of Parents.        | Numbers of Births with<br>Father, Mother or Both<br>Parents of Specified Origin. |                |                            | Percentages of Births with<br>Father, Mother or Both<br>Parents of Specified Origin. |              |                         |
|---------------------------|----------------------------------------------------------------------------------|----------------|----------------------------|--------------------------------------------------------------------------------------|--------------|-------------------------|
|                           | Father.                                                                          | Mother.        | Both<br>Parents.           | Father.                                                                              | Mother.      | Both<br>Parents.        |
|                           | No.                                                                              | No.            | No.                        | p.c.                                                                                 | p.c.         | p.c.                    |
| English.....              | 49,772                                                                           | 52,741         | 34,106                     | 20.7                                                                                 | 21.9         | 14.2                    |
| Irish.....                | 21,729                                                                           | 20,898         | 9,284                      | 9.0                                                                                  | 8.7          | 3.9                     |
| Scottish.....             | 22,516                                                                           | 22,797         | 9,884                      | 9.4                                                                                  | 9.5          | 4.1                     |
| Welsh.....                | 972                                                                              | 779            | 170                        | 0.4                                                                                  | 0.3          | 0.1                     |
| French.....               | 90,500                                                                           | 93,904         | 85,962                     | 37.6                                                                                 | 39.0         | 35.7                    |
| German.....               | 11,411                                                                           | 12,112         | 8,196                      | 4.7                                                                                  | 5.0          | 3.4                     |
| Armenian.....             | 61                                                                               | 54             | 52                         | 1                                                                                    | 1            | 1                       |
| Austrian.....             | 975                                                                              | 1,055          | 730                        | 0.4                                                                                  | 0.4          | 0.3                     |
| Belgian.....              | 670                                                                              | 589            | 355                        | 0.3                                                                                  | 0.2          | 0.1                     |
| Bulgarian.....            | 59                                                                               | 28             | 22                         | 1                                                                                    | 1            | 1                       |
| Chinese.....              | 271                                                                              | 229            | 228                        | 0.1                                                                                  | 0.1          | 0.1                     |
| Czech and Slovak.....     | 843                                                                              | 847            | 668                        | 0.4                                                                                  | 0.4          | 0.3                     |
| Danish.....               | 759                                                                              | 648            | 324                        | 0.3                                                                                  | 0.3          | 0.1                     |
| Dutch.....                | 2,550                                                                            | 2,520          | 1,392                      | 1.1                                                                                  | 1.0          | 0.6                     |
| Finnish.....              | 729                                                                              | 921            | 635                        | 0.3                                                                                  | 0.4          | 0.3                     |
| Greek.....                | 235                                                                              | 141            | 136                        | 0.1                                                                                  | 0.1          | 0.1                     |
| Hebrew.....               | 2,160                                                                            | 2,135          | 2,096                      | 0.9                                                                                  | 0.9          | 0.9                     |
| Hindu.....                | 50                                                                               | 43             | 42                         | 1                                                                                    | 1            | 1                       |
| Hungarian.....            | 1,248                                                                            | 1,305          | 1,122                      | 0.5                                                                                  | 0.5          | 0.5                     |
| Icelandic.....            | 394                                                                              | 412            | 226                        | 0.2                                                                                  | 0.2          | 0.1                     |
| Indian.....               | 2,796                                                                            | 3,316          | 2,653                      | 1.2                                                                                  | 1.4          | 1.1                     |
| Italian.....              | 2,655                                                                            | 2,288          | 2,044                      | 1.1                                                                                  | 1.0          | 0.8                     |
| Japanese.....             | 842                                                                              | 838            | 836                        | 0.4                                                                                  | 0.3          | 0.3                     |
| Negro.....                | 350                                                                              | 385            | 317                        | 0.1                                                                                  | 0.2          | 0.1                     |
| Norwegian.....            | 1,833                                                                            | 1,979          | 907                        | 0.8                                                                                  | 0.8          | 0.4                     |
| Polish.....               | 3,441                                                                            | 3,842          | 2,681                      | 1.4                                                                                  | 1.6          | 1.1                     |
| Roumanian.....            | 599                                                                              | 559            | 404                        | 0.2                                                                                  | 0.2          | 0.2                     |
| Russian.....              | 1,884                                                                            | 1,723          | 1,331                      | 0.8                                                                                  | 0.7          | 0.6                     |
| Serbo-Croatian.....       | 535                                                                              | 510            | 451                        | 0.2                                                                                  | 0.2          | 0.2                     |
| Swedish.....              | 1,532                                                                            | 1,436          | 614                        | 0.6                                                                                  | 0.6          | 0.3                     |
| Swiss.....                | 324                                                                              | 258            | 95                         | 0.1                                                                                  | 0.1          | 1                       |
| Syrian.....               | 243                                                                              | 209            | 175                        | 0.1                                                                                  | 0.1          | 0.1                     |
| Ukrainian.....            | 6,315                                                                            | 6,849          | 5,698                      | 2.6                                                                                  | 2.8          | 2.4                     |
| Other.....                | 303                                                                              | 289            | 169                        | 0.1                                                                                  | 0.1          | 0.1                     |
| Origin not specified..... | 8,917                                                                            | 1,834          | 404                        | 3.7                                                                                  | 0.8          | 0.2                     |
| <b>Totals.....</b>        | <b>240,473</b>                                                                   | <b>240,473</b> | <b>174,409<sup>2</sup></b> | <b>100.0</b>                                                                         | <b>100.0</b> | <b>72.5<sup>3</sup></b> |

For footnotes see end of Table 10A, page 184.

**Illegitimacy.**—The ratio of illegitimate to total births is, generally speaking, low in Canada as compared with other countries. The steady increase which is noticeable in recent years is probably due, in some measure, to more complete data.

Out of 240,473 live births in the nine provinces of Canada in 1931, 8,365 or 3.48 p.c., were returned as the issue of unmarried mothers. Figures for 1932 show a total of 235,666 live births, of which 8,460 or 3.59 p.c., were returned as the issue of unmarried mothers. Out of this number 4,366 were males and 4,094 females—a ratio of 1,066 males to every 1,000 females, as compared with 1,088 males per 1,000 females in 1931, and a general 1932 rate for all births of 1,057 males to 1,000 females. In 1933 there were 222,868 live births and 8,426 or 3.78 p.c. of these were illegitimate. Of the illegitimate, 4,362 were males and 4,064 were females—a ratio of 1,073 males to 1,000 females. (See Table 11.)

**10A.—Numbers and Percentages of Births (Exclusive of Stillbirths) in Canada to Fathers and Mothers of Specified Origins, 1932.**

| Origin of Parents.           | Numbers of Births with<br>Father, Mother or Both<br>Parents of Specified Origin. |                |                            | Percentages of Births with<br>Father, Mother or Both<br>Parents of Specified Origin. |              |                         |
|------------------------------|----------------------------------------------------------------------------------|----------------|----------------------------|--------------------------------------------------------------------------------------|--------------|-------------------------|
|                              | Father.                                                                          | Mother.        | Both<br>Parents.           | Father.                                                                              | Mother.      | Both<br>Parents.        |
|                              | No.                                                                              | No.            | No.                        | p.c.                                                                                 | p.c.         | p.c.                    |
| English.....                 | 47,842                                                                           | 50,672         | 32,447                     | 20.3                                                                                 | 21.5         | 13.8                    |
| Irish.....                   | 21,032                                                                           | 20,507         | 8,786                      | 8.9                                                                                  | 8.7          | 3.7                     |
| Scottish.....                | 21,843                                                                           | 22,199         | 9,487                      | 9.3                                                                                  | 9.4          | 4.0                     |
| Welsh.....                   | 861                                                                              | 761            | 134                        | 0.4                                                                                  | 0.3          | 0.1                     |
| French.....                  | 89,498                                                                           | 92,962         | 84,860                     | 38.0                                                                                 | 39.4         | 36.0                    |
| German.....                  | 11,661                                                                           | 12,439         | 8,368                      | 4.9                                                                                  | 5.3          | 3.6                     |
| Armenian.....                | 27                                                                               | 27             | 24                         | 1                                                                                    | 1            | 1                       |
| Austrian.....                | 854                                                                              | 883            | 596                        | 0.4                                                                                  | 0.4          | 0.3                     |
| Belgian.....                 | 597                                                                              | 604            | 330                        | 0.3                                                                                  | 0.3          | 0.1                     |
| Bulgarian.....               | 64                                                                               | 44             | 33                         | 1                                                                                    | 1            | 1                       |
| Chinese.....                 | 260                                                                              | 206            | 203                        | 0.1                                                                                  | 0.1          | 0.1                     |
| Czech and Slovak.....        | 829                                                                              | 836            | 655                        | 0.4                                                                                  | 0.4          | 0.3                     |
| Danish.....                  | 820                                                                              | 658            | 343                        | 0.3                                                                                  | 0.3          | 0.1                     |
| Dutch.....                   | 2,513                                                                            | 2,367          | 1,284                      | 1.1                                                                                  | 1.0          | 0.5                     |
| Finnish.....                 | 607                                                                              | 816            | 581                        | 0.3                                                                                  | 0.3          | 0.2                     |
| Greek.....                   | 254                                                                              | 162            | 149                        | 0.1                                                                                  | 0.1          | 0.1                     |
| Hebrew.....                  | 2,188                                                                            | 2,152          | 2,102                      | 0.9                                                                                  | 0.9          | 0.9                     |
| Hindu.....                   | 43                                                                               | 43             | 42                         | 1                                                                                    | 1            | 1                       |
| Hungarian.....               | 1,219                                                                            | 1,284          | 1,085                      | 0.5                                                                                  | 0.5          | 0.5                     |
| Icelandic.....               | 390                                                                              | 392            | 231                        | 0.2                                                                                  | 0.2          | 0.1                     |
| Indian.....                  | 3,195                                                                            | 3,747          | 3,051                      | 1.4                                                                                  | 1.6          | 1.3                     |
| Italian.....                 | 2,476                                                                            | 2,073          | 1,852                      | 1.1                                                                                  | 0.9          | 0.8                     |
| Japanese.....                | 730                                                                              | 727            | 722                        | 0.3                                                                                  | 0.3          | 0.3                     |
| Negro.....                   | 359                                                                              | 408            | 329                        | 0.2                                                                                  | 0.2          | 0.1                     |
| Norwegian.....               | 1,844                                                                            | 1,942          | 862                        | 0.8                                                                                  | 0.8          | 0.4                     |
| Polish.....                  | 3,343                                                                            | 3,765          | 2,614                      | 1.4                                                                                  | 1.6          | 1.1                     |
| Roumanian.....               | 615                                                                              | 549            | 404                        | 0.3                                                                                  | 0.2          | 0.2                     |
| Russian.....                 | 1,688                                                                            | 1,559          | 1,184                      | 0.7                                                                                  | 0.7          | 0.5                     |
| Serbo-Croatian.....          | 474                                                                              | 457            | 395                        | 0.2                                                                                  | 0.2          | 0.2                     |
| Swedish.....                 | 1,497                                                                            | 1,421          | 554                        | 0.6                                                                                  | 0.6          | 0.2                     |
| Swiss.....                   | 312                                                                              | 221            | 77                         | 0.1                                                                                  | 0.1          | 1                       |
| Syrian.....                  | 216                                                                              | 203            | 170                        | 0.1                                                                                  | 0.1          | 0.1                     |
| Ukrainian <sup>1</sup> ..... | 6,294                                                                            | 6,913          | 5,706                      | 2.7                                                                                  | 2.9          | 2.4                     |
| Other.....                   | 284                                                                              | 284            | 153                        | 0.1                                                                                  | 0.1          | 0.1                     |
| Origin not specified.....    | 8,937                                                                            | 1,383          | 315                        | 3.8                                                                                  | 0.6          | 0.1                     |
| <b>Totals.....</b>           | <b>235,666</b>                                                                   | <b>235,666</b> | <b>170,078<sup>2</sup></b> | <b>100.0</b>                                                                         | <b>100.0</b> | <b>72.2<sup>3</sup></b> |

<sup>1</sup>Less than one-tenth of one per cent    <sup>2</sup>This figure gives the number of children whose fathers and mothers have the same origin. The difference between this figure and the total number of births represents the number of children whose fathers and mothers are of different origins.    <sup>3</sup>This excludes the percentage of "mixed parentage", i.e., parents not of the same origins.    <sup>4</sup>Including Galician and Bukovinian.

**11.—Numbers of Illegitimate Births, Classified by Age of Mother, with the Percentages to Total Live Births, by Provinces, 1931 and 1932, with Totals for 1931-33.**

| Age Group of Mother and Item. | P.E.I. | N.S. | N.B. | Que.  | Ont.  | Man. | Sask. | Alta. | B.C. | Canada. |
|-------------------------------|--------|------|------|-------|-------|------|-------|-------|------|---------|
| 1931.                         | No.    | No.  | No.  | No.   | No.   | No.  | No.   | No.   | No.  | No.     |
| Under 15 years.....           | 1      | 4    | 9    | 13    | 29    | 5    | 4     | 5     | 1    | 71      |
| 15-19 years.....              | 24     | 264  | 166  | 435   | 1,063 | 204  | 219   | 206   | 98   | 2,679   |
| 20-24 years.....              | 27     | 223  | 114  | 500   | 972   | 202  | 270   | 265   | 96   | 2,669   |
| 25-29 years.....              | 13     | 86   | 42   | 160   | 372   | 50   | 81    | 84    | 46   | 934     |
| 30-34 years.....              | 5      | 22   | 23   | 68    | 167   | 25   | 32    | 38    | 21   | 401     |
| 35-39 years.....              | 1      | 22   | 9    | 32    | 91    | 22   | 20    | 27    | 19   | 243     |
| 40-44 years.....              | —      | 9    | 3    | 8     | 31    | 5    | 9     | 8     | 2    | 75      |
| 45-49 years.....              | —      | —    | —    | 2     | 4     | —    | 1     | 1     | 2    | 10      |
| 50 years and over.....        | —      | —    | —    | —     | —     | —    | —     | —     | —    | —       |
| Not given.....                | —      | —    | 1    | 1,232 | 44    | —    | 2     | 1     | 3    | 1,283   |



**11.—Numbers of Illegitimate Births, Classified by Age of Mother, with the Percentages to Total Live Births, by Provinces, 1931 and 1932, with Totals for 1931-33—concluded.**

| Age Group of Mother and Item.   | P.E.I. | N.S. | N.B. | Que.  | Ont.  | Man. | Sask. | Alta. | B.C. | Canada. |
|---------------------------------|--------|------|------|-------|-------|------|-------|-------|------|---------|
| 1932.                           | No.    | No.  | No.  | No.   | No.   | No.  | No.   | No.   | No.  | No.     |
| Under 15 years.....             | 2      | 4    | 2    | 14    | 13    | 1    | 7     | 6     | 2    | 51      |
| 15-19 years.....                | 36     | 250  | 136  | 490   | 1,019 | 173  | 223   | 200   | 94   | 2,621   |
| 20-24 years.....                | 22     | 213  | 140  | 671   | 1,031 | 204  | 252   | 248   | 142  | 2,923   |
| 25-29 years.....                | 11     | 107  | 49   | 225   | 412   | 68   | 85    | 84    | 51   | 1,092   |
| 30-34 years.....                | 3      | 37   | 18   | 72    | 180   | 33   | 37    | 28    | 36   | 444     |
| 35-39 years.....                | —      | 21   | 20   | 30    | 86    | 16   | 32    | 26    | 14   | 245     |
| 40-44 years.....                | —      | 9    | 4    | 15    | 54    | 6    | 13    | 11    | 7    | 119     |
| 45-49 years.....                | —      | —    | 1    | 1     | 7     | 1    | 2     | —     | 1    | 13      |
| 50 years and over.....          | —      | —    | —    | —     | —     | —    | —     | —     | —    | —       |
| Not given.....                  | —      | —    | —    | 915   | 32    | 1    | 1     | 2     | 1    | 952     |
| <b>Totals—</b>                  |        |      |      |       |       |      |       |       |      |         |
| 1931.....                       | 71     | 630  | 367  | 2,450 | 2,773 | 513  | 638   | 635   | 288  | 8,365   |
| 1932.....                       | 74     | 641  | 370  | 2,433 | 2,834 | 503  | 652   | 605   | 348  | 8,460   |
| 1933.....                       | 59     | 663  | 358  | 2,433 | 2,786 | 503  | 646   | 623   | 350  | 8,426   |
| Percentages of all live births— | p.c.   | p.c. | p.c. | p.c.  | p.c.  | p.c. | p.c.  | p.c.  | p.c. | p.c.    |
| 1931.....                       | 3.8    | 5.4  | 3.4  | 2.9   | 4.0   | 3.6  | 3.0   | 3.7   | 2.8  | 3.48    |
| 1932.....                       | 3.7    | 5.5  | 3.4  | 3.0   | 4.2   | 3.6  | 3.1   | 3.6   | 3.4  | 3.59    |
| 1933.....                       | 3.0    | 6.0  | 3.6  | 3.2   | 4.4   | 3.8  | 3.2   | 3.9   | 3.7  | 3.78    |
| Male illegitimate births—       | No.    | No.  | No.  | No.   | No.   | No.  | No.   | No.   | No.  | No.     |
| 1931.....                       | 29     | 323  | 207  | 1,298 | 1,423 | 251  | 328   | 338   | 162  | 4,359   |
| 1932.....                       | 41     | 340  | 188  | 1,252 | 1,450 | 283  | 333   | 304   | 175  | 4,366   |
| 1933.....                       | 26     | 351  | 173  | 1,261 | 1,422 | 262  | 339   | 341   | 187  | 4,362   |
| Female illegitimate births—     |        |      |      |       |       |      |       |       |      |         |
| 1931.....                       | 42     | 307  | 160  | 1,152 | 1,350 | 262  | 310   | 297   | 126  | 4,006   |
| 1932.....                       | 33     | 301  | 182  | 1,181 | 1,384 | 220  | 319   | 301   | 173  | 4,094   |
| 1933.....                       | 33     | 317  | 185  | 1,172 | 1,364 | 241  | 307   | 282   | 163  | 4,064   |

**Stillbirths.**—Statistics of the number of children born dead in 1931 and 1932 are shown below for Canada, according to the status and age of the mother; totals for 1933 are inserted. Stillbirths to unmarried mothers were 5.5 p.c. of total stillbirths in 1933.

**12.—Stillbirths by Age of Mother and Legitimacy of Child in 1931 and 1932, with Totals for 1931-33.**

| Age Group of Mother and Item. | Born to Unmarried Mothers. | Born to Married Mothers. |            |            |              |              |            |            |            |            | Total Born in Canada. |
|-------------------------------|----------------------------|--------------------------|------------|------------|--------------|--------------|------------|------------|------------|------------|-----------------------|
|                               |                            | P.E.I.                   | N.S.       | N.B.       | Que.         | Ont.         | Man.       | Sask.      | Alta.      | B.C.       |                       |
| 1931.                         | No.                        | No.                      | No.        | No.        | No.          | No.          | No.        | No.        | No.        | No.        | No.                   |
| Under 15 years.....           | 1                          | —                        | —          | —          | —            | 1            | —          | —          | —          | —          | 2                     |
| 15-19 years.....              | 121                        | 2                        | 33         | 24         | 70           | 152          | 25         | 21         | 28         | 11         | 487                   |
| 20-24 years.....              | 132                        | 6                        | 97         | 77         | 453          | 504          | 97         | 125        | 110        | 70         | 1,671                 |
| 25-29 years.....              | 41                         | 4                        | 74         | 59         | 576          | 595          | 102        | 122        | 103        | 68         | 1,744                 |
| 30-34 years.....              | 25                         | 13                       | 67         | 66         | 494          | 561          | 76         | 112        | 76         | 53         | 1,543                 |
| 35-39 years.....              | 16                         | 8                        | 73         | 66         | 386          | 451          | 79         | 94         | 63         | 45         | 1,281                 |
| 40-44 years.....              | 6                          | 4                        | 30         | 28         | 246          | 180          | 51         | 62         | 46         | 22         | 675                   |
| 45 years and over.....        | 2                          | 2                        | 2          | 4          | 31           | 20           | 10         | 9          | 1          | 2          | 83                    |
| Not given.....                | 89                         | 3                        | 2          | 3          | 2            | 28           | 2          | —          | 4          | —          | 133                   |
| 1932.                         |                            |                          |            |            |              |              |            |            |            |            |                       |
| Under 15 years.....           | 1                          | —                        | —          | —          | —            | —            | —          | —          | —          | —          | 1                     |
| 15-19 years.....              | 111                        | 6                        | 36         | 14         | 59           | 130          | 17         | 38         | 24         | 24         | 459                   |
| 20-24 years.....              | 120                        | 8                        | 107        | 70         | 388          | 436          | 81         | 115        | 74         | 55         | 1,454                 |
| 25-29 years.....              | 40                         | 18                       | 95         | 65         | 546          | 544          | 69         | 99         | 110        | 49         | 1,635                 |
| 30-34 years.....              | 29                         | 14                       | 64         | 58         | 493          | 469          | 83         | 99         | 92         | 47         | 1,448                 |
| 35-39 years.....              | 13                         | 13                       | 81         | 60         | 472          | 419          | 69         | 80         | 94         | 37         | 1,338                 |
| 40-44 years.....              | 4                          | 10                       | 44         | 27         | 274          | 212          | 40         | 57         | 48         | 25         | 741                   |
| 45 years and over.....        | 2                          | —                        | 1          | 7          | 45           | 23           | 6          | 14         | 10         | 4          | 112                   |
| Not given.....                | 73                         | 7                        | —          | —          | 1            | 12           | —          | —          | 3          | —          | 96                    |
| <b>Totals, 1931.....</b>      | <b>433</b>                 | <b>42</b>                | <b>378</b> | <b>327</b> | <b>2,258</b> | <b>2,492</b> | <b>442</b> | <b>545</b> | <b>431</b> | <b>271</b> | <b>7,619</b>          |
| <b>Totals, 1932.....</b>      | <b>393</b>                 | <b>76</b>                | <b>428</b> | <b>301</b> | <b>2,278</b> | <b>2,245</b> | <b>365</b> | <b>502</b> | <b>455</b> | <b>241</b> | <b>7,284</b>          |
| <b>Totals, 1933.....</b>      | <b>376</b>                 | <b>62</b>                | <b>387</b> | <b>271</b> | <b>2,241</b> | <b>2,058</b> | <b>343</b> | <b>446</b> | <b>420</b> | <b>244</b> | <b>6,848</b>          |
| Ratios to Total Births, 1931  | 4.9                        | 2.3                      | 3.3        | 3.0        | 2.7          | 3.6          | 3.1        | 2.6        | 2.5        | 2.6        | 3.1                   |
| Ratios to Total Births, 1932  | 4.4                        | 3.7                      | 3.7        | 2.8        | 2.8          | 3.4          | 2.6        | 2.4        | 2.7        | 2.4        | 3.1                   |
| Ratios to Total Births, 1933  | 4.3                        | 3.2                      | 3.6        | 2.7        | 2.9          | 3.3          | 2.6        | 2.2        | 2.6        | 2.6        | 3.0                   |

**Birth Rates in Various Countries.**—The relative positions occupied by Canada and its individual provinces among the countries of the world with respect to crude birth rate (the annual number of births per 1,000 of population) are shown in Table 13.

**13.—Crude Birth Rates of Various Countries in Recent Years.**

| Country or Province.             | Year. | Crude Birth Rate. | Country or Province.           | Year.       | Crude Birth Rate. |
|----------------------------------|-------|-------------------|--------------------------------|-------------|-------------------|
| Costa Rica.....                  | 1932  | 43.8              | <b>Canada.....</b>             | <b>1933</b> | <b>20.9</b>       |
| Egypt.....                       | 1931  | 43.2              | Tasmania.....                  | 1932        | 20.2              |
| Salvador.....                    | 1932  | 39.8              | Northern Ireland.....          | 1932        | 19.9              |
| Russia.....                      | 1929  | 38.6              | Latvia.....                    | 1932        | 19.4              |
| Ceylon.....                      | 1932  | 37.0              | Irish Free State.....          | 1932        | 18.9              |
| Roumania.....                    | 1932  | 35.9              | Western Australia.....         | 1932        | 18.9              |
| Straits Settlements.....         | 1932  | 35.8              | Finland.....                   | 1932        | 18.7              |
| Ukraine.....                     | 1929  | 35.3              | Scotland.....                  | 1932        | 18.6              |
| Chile.....                       | 1932  | 34.2              | Manitoba.....                  | 1933        | 18.4              |
| British India.....               | 1932  | 33.7              | Denmark.....                   | 1932        | 18.0              |
| Japan.....                       | 1932  | 32.9              | Ontario.....                   | 1933        | 18.0              |
| Jamaica.....                     | 1932  | 32.2              | Queensland.....                | 1932        | 17.9              |
| Bulgaria.....                    | 1932  | 31.3              | Belgium.....                   | 1932        | 17.8              |
| Poland.....                      | 1932  | 28.7              | New South Wales.....           | 1932        | 17.7              |
| Greece.....                      | 1932  | 28.2              | Estonia.....                   | 1932        | 17.6              |
| Panama.....                      | 1931  | 27.9              | United States (Reg. Area)..... | 1932        | 17.4              |
| Spain.....                       | 1931  | 27.4              | France.....                    | 1932        | 17.3              |
| Quebec.....                      | 1933  | 25.9              | New Zealand.....               | 1932        | 17.1              |
| Iceland.....                     | 1932  | 24.3              | Australia.....                 | 1932        | 16.9              |
| Union of S. Africa (Whites)..... | 1932  | 24.2              | Switzerland.....               | 1932        | 16.7              |
| New Brunswick.....               | 1933  | 23.9              | Norway.....                    | 1932        | 16.0              |
| Italy.....                       | 1932  | 23.8              | Prussia.....                   | 1931        | 16.0              |
| Newfoundland.....                | 1932  | 23.7              | British Isles.....             | 1932        | 15.9              |
| Hungary.....                     | 1932  | 23.4              | England and Wales.....         | 1932        | 15.3              |
| Uruguay.....                     | 1932  | 22.5              | Austria.....                   | 1932        | 15.2              |
| Netherlands.....                 | 1932  | 22.0              | Victoria.....                  | 1932        | 15.2              |
| Prince Edward Island.....        | 1933  | 21.9              | Germany.....                   | 1932        | 15.1              |
| Nova Scotia.....                 | 1933  | 21.4              | South Australia.....           | 1932        | 14.5              |
| Alberta.....                     | 1933  | 21.3              | Sweden.....                    | 1932        | 14.5              |
| Saskatchewan.....                | 1933  | 21.2              | British Columbia.....          | 1933        | 13.5              |
| Czechoslovakia.....              | 1932  | 21.0              |                                |             |                   |

## Section 3.—Marriages and Divorces.

### Subsection 1.—Marriages.

About a century ago it was observed in the United Kingdom that the number of marriages tended to be high when the price of wheat was low and to be low when the price of wheat was high. This was quite naturally the case among a population, the majority of which was living at a comparatively low standard of comfort, and where the staple food was thus the chief factor in the cost of living.

More recently, the curve showing marriage rates in the United Kingdom and other English-speaking countries has ceased to bear any constant relation to the price of the staple food of the people, though it still does so in poorer countries. Its place in influencing the marriage rate has, however, been taken by the general level of prosperity. Marriages in such countries as the United Kingdom, the United States, Canada and Australia tend to increase in "good times" and to diminish in "hard times", when great numbers of those who are contemplating marriage are led to postpone such marriage until the advent of better industrial conditions. Thus marriages in Canada showed considerable declines from the high 1929 level in 1930, 1931, and 1932, but increased generally (in every province except Saskatchewan) in 1933.

Summary statistics of marriages contracted in 1921-33 appear in Table 14.

#### 14.—Numbers of Marriages and Marriage Rates, by Provinces, 1931-33 with Averages for 1921-25 and 1926-30.

##### A.—NUMBERS OF MARRIAGES.

| Year.              | P.E.I. | N.S.  | N.B.  | Que.   | Ont.   | Man.  | Sask. | Alta. | B.C.  | Canada. |
|--------------------|--------|-------|-------|--------|--------|-------|-------|-------|-------|---------|
| Averages, 1921-25. | 473    | 3,186 | 2,953 | 1      | 24,037 | 4,634 | 4,982 | 4,313 | 3,971 | 1       |
| Averages, 1926-30. | 473    | 3,224 | 2,970 | 18,731 | 25,449 | 4,951 | 6,036 | 5,265 | 4,786 | 71,885  |
| 1931.....          | 490    | 3,394 | 2,544 | 16,783 | 23,771 | 4,888 | 5,700 | 5,142 | 3,879 | 66,591  |
| 1932.....          | 456    | 3,197 | 2,380 | 15,115 | 22,224 | 4,729 | 5,772 | 5,054 | 3,604 | 62,531  |
| 1933.....          | 481    | 3,316 | 2,517 | 15,337 | 22,587 | 4,819 | 5,371 | 5,389 | 4,048 | 63,865  |

##### B.—MARRIAGE RATES PER 1,000 POPULATION.

| Year.              | P.E.I. | N.S. | N.B. | Que. | Ont. | Man. | Sask. | Alta. | B.C. | Canada. |
|--------------------|--------|------|------|------|------|------|-------|-------|------|---------|
| Averages, 1921-25. | 5.4    | 6.1  | 7.6  | 1    | 8.0  | 7.5  | 6.4   | 7.3   | 7.1  | 1       |
| Averages, 1926-30. | 5.4    | 6.3  | 7.4  | 6.9  | 7.8  | 7.5  | 7.0   | 8.0   | 7.5  | 7.3     |
| 1931.....          | 5.6    | 6.6  | 6.2  | 5.8  | 6.9  | 7.0  | 6.2   | 7.0   | 5.6  | 6.4     |
| 1932.....          | 5.1    | 6.2  | 5.8  | 5.2  | 6.4  | 6.7  | 6.2   | 6.8   | 5.1  | 6.0     |
| 1933.....          | 5.4    | 6.4  | 6.0  | 5.2  | 6.4  | 6.7  | 5.6   | 7.1   | 5.7  | 6.0     |

<sup>1</sup>Quebec was not included in the registration area prior to 1926.

**Age at Marriage.**—The average age of all bridegrooms in the Dominion in 1932 was 29.2 years and that of all brides 24.9 years. The average excess of the bridegroom's age was thus 4.3 years. It may be noted in Table 15 that when the contracting parties are grouped by age of bridegroom, the average difference in age is less for the younger groups, grooms under 20 being 0.3 years younger than the brides, while the excess of the average bridegroom's age was 1.6 years in the group 20-24, and steadily increased for each quinquennial age group until it was 11.2 years for the bridegrooms 50 years and over in 1931 and 11.6 years in 1932. On the other hand, when the parties are grouped by the age of the bride, it is found that there is not the same regularity as is shown in the table by age of grooms. In the case of brides in the age groups 25-29 years and 50 years and over the bridegrooms approximate most closely in age to their brides. Since these tables are based upon all marriages contracted during the year, the figures given should not be understood to signify the average ages at first marriage. Table 16 gives the average ages of brides and grooms by provinces.

#### 15.—Differences in Ages of Bridegrooms and Brides, 1931 and 1932.

| Year and Age Group of Bridegrooms. | Average Age of Bridegrooms. | Average Age of Brides. | Excess of Average Age of Bridegrooms. | Year and Age Group of Brides. | Average Age of Brides. | Average Age of Bridegrooms. | Excess of Average Age of Bridegrooms. |
|------------------------------------|-----------------------------|------------------------|---------------------------------------|-------------------------------|------------------------|-----------------------------|---------------------------------------|
| 1931.                              |                             |                        |                                       | 1931.                         |                        |                             |                                       |
| All bridegrooms....                | 29.2                        | 24.9                   | 4.3                                   | All brides.....               | 24.9                   | 29.2                        | 4.3                                   |
| Under 20 years.....                | 19.1                        | 19.4                   | -0.3                                  | Under 20 years....            | 18.5                   | 24.6                        | 6.1                                   |
| 20-24 years.....                   | 22.8                        | 21.2                   | 1.6                                   | 20-24 years.....              | 22.3                   | 26.5                        | 4.2                                   |
| 25-29 years.....                   | 27.3                        | 23.4                   | 3.9                                   | 25-29 years.....              | 27.1                   | 30.1                        | 3.0                                   |
| 30-34 years.....                   | 32.1                        | 25.8                   | 6.3                                   | 30-34 years.....              | 32.1                   | 35.3                        | 3.2                                   |
| 35-39 years.....                   | 37.3                        | 29.0                   | 8.3                                   | 35-39 years.....              | 37.3                   | 40.7                        | 3.4                                   |
| 40-44 years.....                   | 42.3                        | 32.6                   | 9.7                                   | 40-44 years.....              | 42.3                   | 46.0                        | 3.7                                   |
| 45-49 years.....                   | 47.4                        | 36.9                   | 10.5                                  | 45-49 years.....              | 47.3                   | 51.5                        | 4.2                                   |
| 50 years and over..                | 59.7                        | 48.5                   | 11.2                                  | 50 years and over..           | 58.8                   | 61.1                        | 2.3                                   |
| 1932.                              |                             |                        |                                       | 1932.                         |                        |                             |                                       |
| All bridegrooms....                | 29.2                        | 24.9                   | 4.3                                   | All brides.....               | 24.9                   | 29.2                        | 4.3                                   |
| Under 20 years.....                | 19.1                        | 19.4                   | -0.3                                  | Under 20 years....            | 18.5                   | 24.7                        | 6.2                                   |
| 20-24 years.....                   | 22.8                        | 21.2                   | 1.6                                   | 20-24 years.....              | 22.3                   | 26.6                        | 4.3                                   |
| 25-29 years.....                   | 27.3                        | 23.3                   | 4.0                                   | 25-29 years.....              | 27.1                   | 30.1                        | 3.0                                   |
| 30-34 years.....                   | 32.1                        | 25.7                   | 6.4                                   | 30-34 years.....              | 32.1                   | 35.4                        | 3.3                                   |
| 35-39 years.....                   | 37.2                        | 28.6                   | 8.6                                   | 35-39 years.....              | 37.3                   | 41.0                        | 3.7                                   |
| 40-44 years.....                   | 42.3                        | 32.7                   | 9.6                                   | 40-44 years.....              | 42.3                   | 47.0                        | 4.7                                   |
| 45-49 years.....                   | 47.4                        | 36.7                   | 10.7                                  | 45-49 years.....              | 47.3                   | 50.8                        | 3.5                                   |
| 50 years and over..                | 60.1                        | 48.5                   | 11.6                                  | 50 years and over..           | 59.1                   | 61.9                        | 2.8                                   |

**16.—Average Ages of Parties Contracting Marriages, by Provinces, 1931 and 1932.**

| Province.                                     | 1931.                        |                        |                                        | 1932.                        |                        |                                        |
|-----------------------------------------------|------------------------------|------------------------|----------------------------------------|------------------------------|------------------------|----------------------------------------|
|                                               | Average Age of Bride-grooms. | Average Age of Brides. | Excess of Average Age of Bride-grooms. | Average Age of Bride-grooms. | Average Age of Brides. | Excess of Average Age of Bride-grooms. |
| Prince Edward Island.....                     | 29.2                         | 24.9                   | 4.3                                    | 29.0                         | 24.5                   | 4.5                                    |
| Nova Scotia.....                              | 28.9                         | 24.4                   | 4.5                                    | 28.4                         | 24.0                   | 4.4                                    |
| New Brunswick.....                            | 29.3                         | 24.5                   | 4.8                                    | 28.9                         | 24.4                   | 4.5                                    |
| Quebec.....                                   | 29.1                         | 25.5                   | 3.6                                    | 29.5                         | 25.8                   | 3.7                                    |
| Ontario.....                                  | 28.8                         | 24.9                   | 3.9                                    | 28.9                         | 24.9                   | 4.0                                    |
| Manitoba.....                                 | 29.9                         | 24.8                   | 5.1                                    | 29.7                         | 24.7                   | 5.0                                    |
| Saskatchewan.....                             | 28.8                         | 23.4                   | 5.4                                    | 28.9                         | 23.5                   | 5.4                                    |
| Alberta.....                                  | 29.3                         | 24.0                   | 5.3                                    | 29.3                         | 23.9                   | 5.4                                    |
| British Columbia.....                         | 31.3                         | 26.4                   | 4.9                                    | 31.1                         | 26.1                   | 5.0                                    |
| <b>Canada (Exclusive of Territories).....</b> | <b>29.2</b>                  | <b>24.9</b>            | <b>4.3</b>                             | <b>29.2</b>                  | <b>24.9</b>            | <b>4.3</b>                             |

Out of each 1,000 bridegrooms in 1932, 906 were bachelors, 83 widowers, 11 divorced men; out of each 1,000 brides 935 were spinsters, 55 widows, 9 divorced women. The first year in which as many as 1 p.c. of those marrying had previously been divorced was 1928. There is a fairly close resemblance between the figures of divorces granted, as shown in Table 19 of this chapter, and the number of divorced persons re-married, more particularly in the case of males. Thus 995 divorces were granted in 1932, while 661 divorced males and 579 divorced females married again. This of course does not mean that these were the same persons.

**Nativity of Brides and Bridegrooms.**—The majority of marriages contracted in the western provinces in past years have been between persons born outside Canada. This condition however is being gradually changed and, although in Alberta and British Columbia, the majority of the bridegrooms in the marriages contracted in 1931 and 1932 were born outside of Canada, as a rule the percentages show a general reduction over the past few years. Canadian-born brides were in the majority, in both years, in each province. In the Maritime Provinces and Quebec, the Canadian-born brides and grooms showed a marked predominance, varying between 86 p.c. and 98 p.c., and in Ontario over 66 p.c. of grooms and 73 p.c. of brides were Canadian born in 1932. Taking Canada as a whole, nearly 68 p.c. of all grooms and exactly 76 p.c. of all brides were born in Canada; these are the highest percentages shown for the period covered by the statistics. Table 17 gives the number of marriages per 1,000 population in each province, as well as the percentage distribution of brides and grooms according to nativity for the years indicated.



**17.—Nativity of Persons Married in Canada, by Provinces, 1931 and 1932 with Averages for 1921-25 and 1926-30.**

NOTE.—For figures for single years 1921-25, see the 1929 Year Book, p. 166, and for 1926-30, the 1933 Year Book, pp. 163-4.

| Province.                              | Year.       | Marriages. |                       | Percentage Distribution of Grooms and Brides, by Nativity. |         |                          |         |                 |         |
|----------------------------------------|-------------|------------|-----------------------|------------------------------------------------------------|---------|--------------------------|---------|-----------------|---------|
|                                        |             | Total.     | Per 1,000 Population. | Born in Provinces of Residence.                            |         | Born in Other Provinces. |         | Born Elsewhere. |         |
|                                        |             |            |                       | Grooms.                                                    | Brides. | Grooms.                  | Brides. | Grooms.         | Brides. |
| Prince Edward Island.....              | Av. 1921-25 | 473        | 5.4                   | 90.8                                                       | 93.8    | 5.1                      | 2.6     | 4.1             | 3.7     |
|                                        | Av. 1926-30 | 473        | 5.4                   | 90.8                                                       | 93.5    | 4.1                      | 2.9     | 5.1             | 3.6     |
|                                        | 1931        | 490        | 5.6                   | 89.4                                                       | 91.8    | 5.1                      | 4.1     | 5.5             | 4.1     |
|                                        | 1932        | 456        | 5.1                   | 91.9                                                       | 94.3    | 3.9                      | 3.5     | 4.2             | 2.2     |
| Nova Scotia.....                       | Av. 1921-25 | 3,186      | 6.1                   | 78.2                                                       | 83.2    | 5.6                      | 3.4     | 16.3            | 13.4    |
|                                        | Av. 1926-30 | 3,224      | 6.3                   | 78.7                                                       | 84.0    | 5.0                      | 3.6     | 16.3            | 12.4    |
|                                        | 1931        | 3,394      | 6.6                   | 80.3                                                       | 86.7    | 5.4                      | 3.6     | 14.3            | 9.7     |
|                                        | 1932        | 3,197      | 6.2                   | 80.7                                                       | 85.6    | 5.5                      | 4.2     | 13.8            | 10.2    |
| New Brunswick.....                     | Av. 1921-25 | 2,953      | 7.6                   | 72.4                                                       | 77.0    | 10.5                     | 8.0     | 17.2            | 14.9    |
|                                        | Av. 1926-30 | 2,970      | 7.4                   | 72.7                                                       | 76.8    | 9.2                      | 8.1     | 18.2            | 15.0    |
|                                        | 1931        | 2,544      | 6.2                   | 77.7                                                       | 81.8    | 10.1                     | 9.2     | 12.2            | 9.0     |
|                                        | 1932        | 2,380      | 5.8                   | 78.4                                                       | 81.1    | 10.0                     | 9.0     | 11.6            | 9.9     |
| Quebec <sup>1</sup> .....              | Av. 1926-30 | 18,731     | 6.9                   | 80.6                                                       | 83.5    | 4.0                      | 3.5     | 15.4            | 13.0    |
|                                        | 1931        | 16,783     | 5.8                   | 79.7                                                       | 83.4    | 4.2                      | 3.7     | 16.0            | 13.0    |
|                                        | 1932        | 15,115     | 5.2                   | 78.9                                                       | 82.2    | 4.2                      | 4.0     | 16.9            | 13.8    |
| Ontario.....                           | Av. 1921-25 | 24,037     | 8.0                   | 61.0                                                       | 64.5    | 6.7                      | 5.8     | 32.4            | 29.6    |
|                                        | Av. 1926-30 | 25,449     | 7.8                   | 57.2                                                       | 61.9    | 7.3                      | 6.8     | 35.5            | 31.3    |
|                                        | 1931        | 23,771     | 6.9                   | 57.4                                                       | 63.4    | 7.7                      | 7.7     | 34.9            | 28.8    |
|                                        | 1932        | 22,224     | 6.4                   | 58.6                                                       | 65.0    | 7.8                      | 8.5     | 33.5            | 26.5    |
| Manitoba.....                          | Av. 1921-25 | 4,634      | 7.5                   | 28.4                                                       | 40.8    | 16.9                     | 13.1    | 54.7            | 46.1    |
|                                        | Av. 1926-30 | 4,951      | 7.5                   | 35.9                                                       | 49.4    | 13.2                     | 10.9    | 50.9            | 39.7    |
|                                        | 1931        | 4,888      | 7.0                   | 41.6                                                       | 55.7    | 10.9                     | 9.2     | 47.5            | 35.1    |
|                                        | 1932        | 4,729      | 6.7                   | 43.7                                                       | 59.4    | 11.0                     | 10.4    | 45.3            | 30.2    |
| Saskatchewan.....                      | Av. 1921-25 | 4,982      | 6.4                   | 9.7                                                        | 21.0    | 30.5                     | 26.7    | 59.8            | 52.3    |
|                                        | Av. 1926-30 | 6,036      | 7.0                   | 18.6                                                       | 35.9    | 26.5                     | 21.2    | 54.9            | 42.9    |
|                                        | 1931        | 5,700      | 6.2                   | 27.6                                                       | 48.3    | 22.5                     | 16.9    | 49.9            | 34.7    |
|                                        | 1932        | 5,772      | 6.2                   | 32.1                                                       | 55.5    | 22.0                     | 15.3    | 45.9            | 29.1    |
| Alberta.....                           | Av. 1921-25 | 4,313      | 7.3                   | 9.8                                                        | 19.2    | 25.1                     | 22.9    | 65.1            | 57.9    |
|                                        | Av. 1926-30 | 5,265      | 8.0                   | 16.3                                                       | 28.6    | 22.3                     | 19.4    | 61.3            | 52.0    |
|                                        | 1931        | 5,142      | 7.0                   | 22.1                                                       | 38.5    | 19.4                     | 17.6    | 58.5            | 43.9    |
|                                        | 1932        | 5,054      | 6.8                   | 25.6                                                       | 43.9    | 19.5                     | 18.0    | 54.9            | 38.1    |
| British Columbia.....                  | Av. 1921-25 | 3,971      | 7.1                   | 16.2                                                       | 21.4    | 22.0                     | 20.6    | 61.8            | 58.0    |
|                                        | Av. 1926-30 | 4,786      | 7.5                   | 18.1                                                       | 24.9    | 20.9                     | 21.7    | 61.0            | 53.4    |
|                                        | 1931        | 3,879      | 5.6                   | 22.2                                                       | 30.6    | 21.1                     | 24.7    | 56.7            | 44.7    |
|                                        | 1932        | 3,604      | 5.1                   | 24.5                                                       | 35.4    | 21.3                     | 24.2    | 54.3            | 40.4    |
| Canada (Exclusive of Territories)..... | Av. 1926-30 | 71,885     | 7.3                   | 54.9                                                       | 61.4    | 10.4                     | 9.2     | 34.8            | 29.1    |
|                                        | 1931        | 66,591     | 6.4                   | 56.7                                                       | 64.9    | 10.0                     | 9.2     | 33.3            | 26.0    |
|                                        | 1932        | 62,531     | 6.0                   | 57.4                                                       | 66.3    | 10.1                     | 9.6     | 32.4            | 24.0    |

<sup>1</sup> Quebec was not included in the registration area prior to 1926.

**Marriage Rates in Various Countries.**—For comparative purposes, the crude marriage rates per 1,000 of population in various countries of the world and in the provinces of Canada are shown for the indicated years in Table 18.

## 18.—Crude Marriage Rates of Various Countries in Recent Years.

| Country or Province.              | Year. | Crude Marriage Rate per 1,000 Population. | Country or Province.      | Year. | Crude Marriage Rate per 1,000 Population. |
|-----------------------------------|-------|-------------------------------------------|---------------------------|-------|-------------------------------------------|
| Ukraine.....                      | 1929  | 11.3                                      | Manitoba.....             | 1933  | 6.7                                       |
| Bulgaria.....                     | 1932  | 9.6                                       | Sweden.....               | 1932  | 6.7                                       |
| Roumania.....                     | 1932  | 9.5                                       | Chile.....                | 1932  | 6.6                                       |
| Czechoslovakia.....               | 1932  | 8.6                                       | Queensland.....           | 1932  | 6.6                                       |
| Union of South Africa (Whites)... | 1932  | 8.3                                       | Victoria.....             | 1932  | 6.5                                       |
| Poland.....                       | 1932  | 8.3                                       | Italy.....                | 1932  | 6.4                                       |
| Hungary.....                      | 1932  | 8.1                                       | Ontario.....              | 1933  | 6.4                                       |
| Germany.....                      | 1932  | 7.9                                       | Nova Scotia.....          | 1933  | 6.3                                       |
| United States.....                | 1932  | 7.9                                       | Finland.....              | 1932  | 6.2                                       |
| Denmark.....                      | 1932  | 7.8                                       | Norway.....               | 1932  | 6.2                                       |
| Estonia.....                      | 1932  | 7.8                                       | South Australia.....      | 1932  | 6.2                                       |
| Japan.....                        | 1932  | 7.8                                       | Costa Rica.....           | 1931  | 6.1                                       |
| Latvia.....                       | 1932  | 7.8                                       | Iceland.....              | 1932  | 6.1                                       |
| Switzerland.....                  | 1932  | 7.8                                       | Canada.....               | 1933  | 6.0                                       |
| Belgium.....                      | 1932  | 7.6                                       | Greece.....               | 1932  | 6.0                                       |
| England and Wales.....            | 1932  | 7.6                                       | New Brunswick.....        | 1933  | 6.0                                       |
| France.....                       | 1932  | 7.5                                       | British Columbia.....     | 1933  | 5.7                                       |
| Spain.....                        | 1931  | 7.4                                       | Saskatchewan.....         | 1933  | 5.6                                       |
| British Isles.....                | 1932  | 7.3                                       | Northern Ireland.....     | 1932  | 5.5                                       |
| Alberta.....                      | 1933  | 7.1                                       | Newfoundland.....         | 1932  | 5.4                                       |
| New South Wales.....              | 1932  | 6.9                                       | Prince Edward Island..... | 1933  | 5.4                                       |
| Western Australia.....            | 1932  | 6.9                                       | Quebec.....               | 1933  | 5.2                                       |
| Netherlands.....                  | 1932  | 6.8                                       | Uruguay.....              | 1932  | 5.1                                       |
| New Zealand.....                  | 1932  | 6.8                                       | Ceylon.....               | 1932  | 4.9                                       |
| Scotland.....                     | 1932  | 6.8                                       | Irish Free State.....     | 1932  | 4.4                                       |
| Tasmania.....                     | 1932  | 6.8                                       | Jamaica.....              | 1932  | 3.7                                       |
| Australia.....                    | 1932  | 6.7                                       | Salvador.....             | 1932  | 3.0                                       |
| Austria.....                      | 1932  | 6.7                                       | Panama.....               | 1931  | 2.1                                       |

## Subsection 2.—Divorces.

For many years subsequent to Confederation the number of divorces granted in Canada was very small, 1883, with 13 divorces, being the first year in which the number attained two figures, while 1903, with 21 divorces, was the record year up to that time. Thereafter the numbers grew more rapidly, 1909 showing 51 divorces and 1913, the last pre-war year, 60 divorces. This number was, however, less than one per 1,000 of the marriages contracted in Canada in these years.

The effect of the War was to increase very greatly the number of divorces granted in Canada. The causes may be found in the generally unsettling psychological effect of the war period, and the long separations between men on active service and their wives. The provision of new facilities for divorce is also to be considered; owing to a decision of the British Privy Council, divorces in the Prairie Provinces have, subsequently to 1918, been granted by the courts of these provinces, so that Ontario and Quebec have since then been the only provinces in which the applicant for divorce must secure a special Private Act of Parliament. In 1930, however, an Act of the Dominion Parliament (20-21 Geo. V, c. 14) gave jurisdiction in divorce cases to the Supreme Court of Ontario.

The above-mentioned causes have tended to produce the recent increase in the numbers of divorces granted in Canada, which grew steadily from 114 in 1918 to 875 in 1930, these numbers being those of final decrees, which alone really constitute divorces. In 1931 the number decreased to 692, this being largely due to the transfer of jurisdiction in Ontario divorces from the Parliament of Canada to the

Supreme Court of the province, with the consequent delay between the granting of the decree *nisi* and the decree absolute. In 1932 the number rose to 995, this figure being greater than the total divorces granted in the 50 years from 1868 to 1917, but in 1933 it dropped slightly to 923. The statistics of divorces granted in the years from 1911 to 1933 inclusive will be found in Table 19. (For divorces in each year prior to 1911 see the 1921 Year Book, p. 825.)

### 19.—Statistics of Divorces Granted in Canada, 1911-33.

NOTE.—In Prince Edward Island only two divorces have been granted since Confederation, one in 1913 and one in 1931. In consequence of a decision of the British Privy Council, divorces in Manitoba, Saskatchewan and Alberta have, subsequently to 1913, been granted by the courts of these provinces.

| Year.     | Granted by the Dominion Parliament. |         |                  |                   |                  | Granted by the Courts. |                         |                           | Total for Canada. |
|-----------|-------------------------------------|---------|------------------|-------------------|------------------|------------------------|-------------------------|---------------------------|-------------------|
|           | Ontario.                            | Quebec. | Al-<br>berta.    | Saskat-<br>chewan | Manitoba.        | Nova<br>Scotia.        | New<br>Brunsw-<br>wick. | British<br>Colum-<br>bia. |                   |
| 1911..... | 13                                  | 4       | 2                | —                 | 3                | 10 <sup>1</sup>        | 6                       | 19                        | 57                |
| 1912..... | 9                                   | 3       | 2                | 1                 | 1                | 4                      | 4 <sup>2</sup>          | 11                        | 35                |
| 1913..... | 20                                  | 4       | 4                | 1                 | 6                | —                      | 4                       | 20                        | 60 <sup>3</sup>   |
| 1914..... | 18                                  | 7       | 4                | 2                 | 2                | 10                     | 12                      | 15                        | 70                |
| 1915..... | 10                                  | 3       | 3                | 1                 | 1                | 13                     | 6                       | 16                        | 53                |
| 1916..... | 18                                  | 1       | 1                | 2                 | 2                | 14                     | 11                      | 18                        | 67                |
| 1917..... | 10                                  | 4       | 2                | 1                 | —                | 8                      | 6                       | 23                        | 54                |
| 1918..... | 10                                  | 2       | 2                | 1                 | —                | 24                     | 10                      | 65                        | 114               |
| 1919..... | 49                                  | 4       | 36 <sup>2</sup>  | 3 <sup>4</sup>    | 88 <sup>3</sup>  | 36                     | 13                      | 147                       | 376               |
| 1920..... | 91                                  | 9       | 64 <sup>4</sup>  | 26 <sup>4</sup>   | 42 <sup>4</sup>  | 45                     | 15                      | 136                       | 429               |
| 1921..... | 101                                 | 9       | 84 <sup>4</sup>  | 50 <sup>4</sup>   | 122 <sup>4</sup> | 41                     | 13                      | 128                       | 548               |
| 1922..... | 90                                  | 6       | 129 <sup>4</sup> | 37 <sup>4</sup>   | 97 <sup>4</sup>  | 35                     | 12                      | 138                       | 544               |
| 1923..... | 105                                 | 11      | 87 <sup>4</sup>  | 41 <sup>4</sup>   | 81 <sup>4</sup>  | 22                     | 19                      | 139 <sup>3</sup>          | 505               |
| 1924..... | 114                                 | 13      | 118 <sup>4</sup> | 28 <sup>4</sup>   | 77 <sup>5</sup>  | 42                     | 15                      | 136 <sup>3</sup>          | 543               |
| 1925..... | 121                                 | 13      | 101 <sup>4</sup> | 42 <sup>4</sup>   | 79 <sup>4</sup>  | 30                     | 15                      | 150                       | 551               |
| 1926..... | 113                                 | 10      | 154 <sup>4</sup> | 48 <sup>3</sup>   | 85 <sup>4</sup>  | 19                     | 12                      | 167                       | 608               |
| 1927..... | 182                                 | 13      | 148 <sup>4</sup> | 60 <sup>4</sup>   | 102 <sup>3</sup> | 29                     | 17                      | 197                       | 748               |
| 1928..... | 213                                 | 25      | 168 <sup>4</sup> | 55 <sup>4</sup>   | 79 <sup>4</sup>  | 28                     | 14 <sup>3</sup>         | 203                       | 785               |
| 1929..... | 208                                 | 30      | 147 <sup>4</sup> | 69 <sup>4</sup>   | 89 <sup>4</sup>  | 30                     | 21                      | 222                       | 816               |
| 1930..... | 207                                 | 40      | 151 <sup>4</sup> | 62 <sup>4</sup>   | 114 <sup>4</sup> | 19                     | 27                      | 255                       | 875               |
| 1931..... | 90 <sup>4</sup>                     | 38      | 154 <sup>4</sup> | 51 <sup>4</sup>   | 94 <sup>4</sup>  | 36                     | 20                      | 208                       | 692 <sup>6</sup>  |
| 1932..... | 341 <sup>7</sup>                    | 24      | 149 <sup>4</sup> | 61 <sup>4</sup>   | 114 <sup>4</sup> | 35                     | 26                      | 245                       | 995               |
| 1933..... | 304 <sup>3</sup>                    | 23      | 135 <sup>4</sup> | 48 <sup>4</sup>   | 116 <sup>4</sup> | 27                     | 12                      | 258                       | 923               |

<sup>1</sup> Includes one judicial separation. <sup>2</sup> Includes one not effective till court costs are paid. <sup>3</sup> One by Parliament, remainder by courts. <sup>4</sup> Granted by courts. <sup>5</sup> Two granted by Parliament, remainder by courts. <sup>6</sup> Includes one in P.E. Island. <sup>7</sup> Three granted by Parliament, remainder by courts.

### Section 4.—Deaths.

Within the past century, and more especially within the past generation, there has occurred throughout the countries of the white world a notable decline in the death rate, except where man has brought death upon himself through wars and the aftermath of wars. How far this decline has been due to advances in medical science, how far to better sanitation and how far to the improvement in the general conditions of living, as a result of the increase in the productive power of humanity, is in dispute, but concerning the facts there is no doubt.

Perhaps the most impressive testimony regarding this decline in the death rate is furnished by the mortality statistics of Sweden, where vital statistics have been kept with great accuracy for the whole nation ever since 1750. There, the crude death rate declined from an average of 27.4 per 1,000 in the decade 1751-60 to 14.3 in the decade 1911-20 and to 11.6 in 1932.

Similarly, in England, the crude death rate, which was 22.5 per 1,000 in the 60's, 21.4 in the 70's and 18.2 in the 90's of the last century, declined to 15.4 in the first decade of the present century and 12.1 in the third; it was 12.0 in 1932. In

Scotland, again, the average rate was 22.1 in the '60's, 21.8 in the '70's, 18.6 in the '90's, 13.9 in 1921-25, 13.6 in 1926-30, and 13.5 in 1932.

Of course the preceding statements are not to be taken to mean that every year will show a decline in the death rate as compared with the preceding year. There will always be years of specially high mortality, for instance 1918, when the death rate in Ontario, the most populous of the provinces of Canada, was 15.3 per 1,000, owing to the influenza-pneumonia epidemic, as against 12.0 in 1917 and 11.9 in 1919. Over a period, however, these idiosyncrasies of individual years are reduced to negligibility, and it remains true that from decade to decade there is, under normal conditions, a decline in the crude death rates of the countries of the white man's world.

As for Canada, while the period elapsed since the introduction of complete and comprehensive vital statistics in 1920 has been too short to establish a definite downward trend, the rate of 12.4 per 1,000 for that year, in the eight provinces then included in the registration area, was substantially higher than in any subsequent year. From 1926 Quebec, which has a higher death rate than the average, has been included in the registration area and its influence is reflected in the totals for Canada shown in Table 20. A decided improvement is shown in the deaths and death rate of Quebec for the years 1932 and 1933. This has been in evidence ever since 1926, but now, for the first time, Quebec shows a lower rate than any of the provinces to the east of her.

### Subsection 1.—General Mortality.

Total deaths and crude death rates in recent years are given in Table 20 for Canada, by provinces. There was a smaller absolute number of deaths in 1933 than in any other year since the record became available for all the nine provinces.

#### 20.—Deaths and Death Rates, by Provinces, 1931-33, with Averages 1921-25 and 1926-30.

NOTE.—For figures for single years 1921-25 see p. 149 of the 1930 Year Book, and for 1926-30, see p. 167 of the 1933 Year Book.

##### A.—TOTAL DEATHS.

| Year.                  | P.E.I. | N.S.  | N.B.  | Que.         | Ont.   | Man.  | Sask. | Alta. | B.C.  | Canada. <sup>2</sup> |
|------------------------|--------|-------|-------|--------------|--------|-------|-------|-------|-------|----------------------|
| Averages, 1921-25..... | 1,085  | 6,519 | 5,093 | <sup>1</sup> | 34,252 | 5,348 | 5,859 | 4,953 | 4,812 | <sup>1</sup>         |
| Averages, 1926-30..... | 969    | 6,362 | 5,019 | 36,645       | 36,650 | 5,507 | 6,256 | 5,530 | 5,986 | 108,924              |
| 1931.....              | 912    | 5,968 | 4,644 | 34,487       | 35,705 | 5,319 | 6,066 | 5,302 | 6,114 | 104,517              |
| 1932.....              | 1,051  | 6,159 | 4,554 | 33,088       | 36,469 | 5,341 | 6,044 | 5,521 | 6,150 | 104,377              |
| 1933.....              | 1,032  | 6,045 | 4,908 | 31,636       | 35,301 | 5,455 | 6,024 | 5,346 | 6,221 | 101,968              |

##### B.—CRUDE DEATH RATES PER 1,000 POPULATION.

|                        | P.E.I. | N.S. | N.B. | Que.         | Ont. | Man. | Sask. | Alta. | B.C. | Canada. <sup>2</sup> |
|------------------------|--------|------|------|--------------|------|------|-------|-------|------|----------------------|
| Averages, 1921-25..... | 12.5   | 12.6 | 13.1 | <sup>1</sup> | 11.3 | 8.6  | 7.5   | 8.3   | 8.7  | <sup>1</sup>         |
| Averages, 1926-30..... | 11.0   | 12.4 | 12.5 | 13.5         | 11.2 | 8.3  | 7.3   | 8.4   | 9.3  | 11.1                 |
| 1931.....              | 10.4   | 11.6 | 11.4 | 12.0         | 10.4 | 7.6  | 6.6   | 7.2   | 8.8  | 10.1                 |
| 1932.....              | 11.8   | 11.9 | 11.0 | 11.4         | 10.5 | 7.5  | 6.5   | 7.5   | 8.7  | 9.9                  |
| 1933.....              | 11.6   | 11.6 | 11.7 | 10.7         | 10.0 | 7.6  | 6.3   | 7.1   | 8.7  | 9.6                  |

<sup>1</sup> Quebec was not included in the registration area prior to 1926. <sup>2</sup> Exclusive of the Territories.



**Age Distribution of Decedents.**—The numbers of males and females dying in the nine provinces in 1931 and 1932 are given by single years of age up to 5 and by quinquennial age groups from 5 to 90 years and over in Table 21, together with the percentage of deaths occurring in each group in each of these years. In the eight provinces that have been in the registration area since 1921, the number of males under 1 year dying in 1932 was only 14.0 p.c. of the total number of male deaths, as against 23.6 p.c. in 1921, and of females, 12.6 p.c. as against 20.3 p.c. Similarly, deaths under 5 years of age among males fell from 29.8 p.c. of the total number of deaths in 1921 to 17.3 p.c. in 1932 and among females, from 26.5 p.c. to 15.9 p.c.

**21.—Distribution of Deaths in Canada by Sex and Certain Age Groups, Numbers and Percentages, 1931-32.**

| Age Group.                 | Numbers. |        |          |        | Percentages. |       |          |       |
|----------------------------|----------|--------|----------|--------|--------------|-------|----------|-------|
|                            | Males.   |        | Females. |        | Males.       |       | Females. |       |
|                            | 1931.    | 1932.  | 1931.    | 1932.  | 1931.        | 1932. | 1931.    | 1932. |
|                            | No.      | No.    | No.      | No.    | p.c.         | p.c.  | p.c.     | p.c.  |
| Under 1 year.....          | 11,667   | 9,867  | 8,693    | 7,386  | 20.7         | 17.6  | 18.1     | 15.3  |
| 1 year.....                | 1,418    | 1,185  | 1,260    | 1,016  | 2.5          | 2.1   | 2.6      | 2.1   |
| 2 years.....               | 643      | 618    | 532      | 485    | 1.1          | 1.1   | 1.1      | 1.0   |
| 3 years.....               | 471      | 373    | 421      | 358    | 0.8          | 0.7   | 0.9      | 0.7   |
| 4 years.....               | 312      | 330    | 320      | 246    | 0.6          | 0.6   | 0.7      | 0.5   |
| Totals, Under 5 years..... | 14,511   | 12,373 | 11,226   | 9,501  | 25.7         | 22.1  | 23.4     | 19.7  |
| 5-9 years.....             | 1,239    | 1,084  | 963      | 843    | 2.2          | 1.9   | 2.0      | 1.7   |
| 10-14 years.....           | 820      | 835    | 806      | 766    | 1.5          | 1.5   | 1.7      | 1.6   |
| 15-19 years.....           | 1,309    | 1,230  | 1,132    | 1,101  | 2.3          | 2.2   | 2.4      | 2.3   |
| 20-24 years.....           | 1,500    | 1,440  | 1,453    | 1,397  | 2.7          | 2.6   | 3.0      | 2.9   |
| 25-29 years.....           | 1,386    | 1,293  | 1,414    | 1,389  | 2.5          | 2.3   | 2.9      | 2.9   |
| 30-34 years.....           | 1,299    | 1,263  | 1,432    | 1,377  | 2.3          | 2.3   | 3.0      | 2.9   |
| 35-39 years.....           | 1,509    | 1,569  | 1,574    | 1,555  | 2.7          | 2.8   | 3.3      | 3.2   |
| 40-44 years.....           | 1,885    | 1,820  | 1,493    | 1,644  | 3.3          | 3.2   | 3.1      | 3.4   |
| 45-49 years.....           | 2,310    | 2,216  | 1,738    | 1,831  | 4.1          | 4.0   | 3.6      | 3.8   |
| 50-54 years.....           | 2,851    | 2,860  | 1,993    | 2,137  | 5.0          | 5.1   | 4.2      | 4.4   |
| 55-59 years.....           | 3,052    | 3,196  | 2,245    | 2,374  | 5.4          | 5.7   | 4.7      | 4.9   |
| 60-64 years.....           | 3,577    | 3,720  | 2,854    | 2,833  | 6.3          | 6.6   | 5.9      | 5.9   |
| 65-69 years.....           | 4,241    | 4,475  | 3,346    | 3,595  | 7.5          | 8.0   | 7.0      | 7.5   |
| 70-74 years.....           | 4,858    | 5,284  | 4,070    | 4,406  | 8.6          | 9.4   | 8.5      | 9.1   |
| 75-79 years.....           | 4,359    | 4,885  | 4,028    | 4,387  | 7.7          | 8.7   | 8.4      | 9.1   |
| 80-89 years.....           | 4,993    | 5,692  | 5,189    | 5,904  | 8.8          | 10.1  | 10.8     | 12.2  |
| 90 years and over.....     | 759      | 855    | 1,022    | 1,172  | 1.3          | 1.5   | 2.1      | 2.4   |
| Stated ages.....           | 56,458   | 56,090 | 47,978   | 48,212 | 100.0        | 100.0 | 100.0    | 100.0 |
| Ages not stated.....       | 71       | 63     | 10       | 12     | —            | —     | —        | —     |
| Totals, All Ages.....      | 56,529   | 56,153 | 47,988   | 48,224 | —            | —     | —        | —     |

The quartile and decile ages of decedents for the years 1926, 1931 and 1932 are given for each sex and for the two sexes combined in Table 22. The fifth decile and second quartile (or the median) both mark the middle points of the arrays, and the deciles, dividing each half into five groups, give a more detailed picture of the age distribution in each half than do the quartiles. It is shown very definitely that the average ages of decedents have been increasing steadily. This is true for each quartile and each decile. Moreover the improvement between 1931 and 1932, while notable for each sex, is more marked in the case of males. In the case of the

first quartile age for males, for instance, the age has risen from 3.82 years in 1931 to 13.42 years in 1932, or by 251 p.e. That this improvement is mainly due to betterment in the early months of life (between the first and second deciles) is indicated in the second part of the table.

## 22.—Quartile and Decile Ages of Decedents, by Sex, 1926, 1931 and 1932.

| Position in Array by Age.         | Both Sexes. |       |       | Males. |       |       | Females. |       |       |
|-----------------------------------|-------------|-------|-------|--------|-------|-------|----------|-------|-------|
|                                   | 1926.       | 1931. | 1932. | 1926.  | 1931. | 1932. | 1926.    | 1931. | 1932. |
| First quartiles..... years of age | 1.83        | 5.73  | 16.79 | 1.34   | 3.82  | 13.42 | 2.85     | 8.65  | 19.43 |
| Second quartiles..... "           | 45.50       | 51.25 | 55.59 | 45.16  | 50.76 | 55.10 | 45.89    | 52.14 | 56.23 |
| Third quartiles..... "            | 70.70       | 71.83 | 73.40 | 70.05  | 70.87 | 72.60 | 71.51    | 72.90 | 74.37 |
| First deciles..... months of age  | 0.88        | 1.29  | 1.99  | 0.60   | 0.91  | 1.51  | 1.43     | 1.83  | 2.70  |
| Second deciles..... years of age  | 0.71        | 1.20  | 3.40  | 0.55   | 0.86  | 2.27  | 0.98     | 1.72  | 5.66  |
| Third deciles..... "              | 6.95        | 18.85 | 26.29 | 4.30   | 16.67 | 24.51 | 12.15    | 20.98 | 27.95 |
| Fourth deciles..... "             | 28.77       | 37.06 | 43.99 | 26.47  | 36.77 | 43.81 | 30.61    | 37.34 | 44.16 |
| Fifth deciles..... "              | 45.50       | 51.25 | 55.59 | 45.16  | 50.76 | 55.10 | 45.89    | 52.14 | 56.23 |
| Sixth deciles..... "              | 58.40       | 61.19 | 64.26 | 57.73  | 60.28 | 63.43 | 59.13    | 62.49 | 65.26 |
| Seventh deciles..... "            | 67.15       | 68.71 | 70.67 | 66.44  | 67.77 | 69.88 | 68.00    | 69.88 | 71.68 |
| Eighth deciles..... "             | 74.05       | 74.69 | 76.02 | 73.28  | 73.72 | 75.20 | 74.00    | 75.74 | 76.97 |
| Ninth deciles..... "              | 80.82       | 80.99 | 82.04 | 79.89  | 80.14 | 81.12 | 81.85    | 82.05 | 82.99 |

**Adjusted Death Rates.**—While the crude death rate gives the actual mortality per 1,000 of population, the differing age constitution of the population in different communities and the high mortality among infants and elderly people make the crude death rate no true test of the relative expectation of life in such communities. Where the age and health constitution of a particular group is particularly favourable to low mortality, for example among the selected lives of soldiers in peace time, the crude and the adjusted death rates will be lower than elsewhere.

When comparisons of the rates of mortality in several communities are made by age groups the effects of differences in age constitution between these communities are eliminated, but by a rather cumbrous process which does not bring together and express as a single figure the facts of the situation. It has therefore been considered desirable to adopt a particular community as a standard, and to find what the death rates of other communities would have been if the age and sex constitution of their population had corresponded to those of the community taken as a standard. The "standard" population chosen for this purpose in England and Wales and the United States is the "standard million", based on the age and sex distribution per million of the population of England and Wales at the Census of 1901. That age and sex distribution was as follows:—

| Age Group.             | Both Sexes. | Males.  | Females. |
|------------------------|-------------|---------|----------|
| All ages.....          | 1,000,000   | 483,543 | 516,457  |
| Under 5 years.....     | 114,262     | 57,039  | 57,223   |
| 5-9 years.....         | 107,209     | 53,462  | 53,747   |
| 10-14 years.....       | 102,735     | 51,370  | 51,365   |
| 15-19 years.....       | 99,796      | 49,420  | 50,376   |
| 20-24 years.....       | 95,946      | 45,273  | 50,673   |
| 25-34 years.....       | 161,579     | 76,425  | 85,154   |
| 35-44 years.....       | 122,849     | 59,394  | 63,455   |
| 45-54 years.....       | 89,222      | 42,924  | 46,298   |
| 55-64 years.....       | 59,741      | 27,913  | 31,828   |
| 65-74 years.....       | 33,080      | 14,691  | 18,389   |
| 75 years and over..... | 13,581      | 5,632   | 7,949    |

Regarding the standard million of England and Wales the Registrar General says: "As the population of this country in 1901 included relatively few infants and old people it forms a standard exceptionally favourable to low mortality". The relative fewness of old people in the population is presumably due to the great increase in English population during the 19th century; the relative fewness of infants, to the marked reduction of the birth rate between the 1870's and the end of the century.

The process above described has been applied to the population of the eight provinces, the former registration area of Canada, for the years 1921-32 and to the population of Quebec for the years 1926-32 in Table 23. Of the rates there given, those for 1921 and 1922 have been calculated directly, the proportion of the population in each sex and age group according to the Census of 1921 being assumed to hold true for 1922 also; similarly the rates for 1930, 1931 and 1932 have been calculated directly from the proportions shown in each sex and age group at the Census of 1931. For the intervening years 1923-29, for which estimates of total population but not of population by age groups were available, the following method was adopted. The proportions which the adjusted rates of 1921 and 1922 (correct to three decimal places) bore to the crude were averaged, similarly those of 1930 and 1931, and the change was assumed to have taken place in an arithmetical progression during the intervening seven years. Quebec not having been in the registration area in the year 1921, an adjusted rate was not available for that year or for 1922, but as the proportion of the adjusted rate to the crude depends primarily on the sex and age distribution of the population, and as this distribution was known for 1921 and 1931, and the actual proportion of adjusted rate to crude rate for 1931, it was possible to compute a theoretical proportion for 1921. The same method was followed for the total of the nine provinces.

In all of the eight provinces for which 1921 figures are given the proportion of the adjusted rate to the crude was higher in 1921 than in 1931; in other words, the age distribution had become more unfavourable in the later year. In the Maritime Provinces and Ontario the process of "standardizing" or "adjusting" the death rate results in a reduced rate. This is particularly true of Prince Edward Island, which has the largest proportion of aged persons of all Canadian provinces. In the western provinces, on the other hand, the adjusted rates are higher than the crude. So much is this so, that in the case of Saskatchewan, while the crude rate in 1931 was only 6.6, as compared with 10.4 in Prince Edward Island, the adjusted rate was actually slightly higher than that of the island province.

### 23.—Crude and Adjusted Death Rates in Canada, by Provinces, 1921-32.

| Province.     | 1921. | 1922. | 1923. | 1924. | 1925. | 1926. | 1927. | 1928. | 1929. | 1930. | 1931. | 1932. |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| P.E. Island—  |       |       |       |       |       |       |       |       |       |       |       |       |
| Crude.....    | 13.6  | 12.5  | 13.2  | 11.1  | 11.6  | 10.3  | 10.5  | 10.8  | 12.8  | 10.9  | 10.4  | 11.8  |
| Adjusted..... | 10.3  | 9.3   | 9.9   | 8.2   | 8.6   | 7.6   | 7.7   | 7.9   | 9.2   | 7.9   | 7.4   | 8.2   |
| Nova Scotia—  |       |       |       |       |       |       |       |       |       |       |       |       |
| Crude.....    | 12.3  | 12.8  | 13.3  | 12.8  | 11.7  | 12.4  | 12.4  | 12.0  | 12.9  | 12.0  | 11.6  | 11.9  |
| Adjusted..... | 10.3  | 10.6  | 11.0  | 10.5  | 9.6   | 10.1  | 10.1  | 9.7   | 10.4  | 9.7   | 9.3   | 9.2   |

**23.—Crude and Adjusted Death Rates in Canada, by Provinces, 1921-32—concluded.**

| Province.                                     | 1921. | 1922. | 1923. | 1924. | 1925. | 1926.             | 1927.             | 1928.             | 1929.             | 1930. | 1931. | 1932. |
|-----------------------------------------------|-------|-------|-------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------|
| <b>New Brunswick—</b>                         |       |       |       |       |       |                   |                   |                   |                   |       |       |       |
| Crude.....                                    | 14.2  | 13.3  | 12.9  | 12.6  | 12.6  | 12.6              | 12.3              | 12.4              | 12.9              | 12.3  | 11.4  | 11.0  |
| Adjusted.....                                 | 12.4  | 11.8  | 11.3  | 11.0  | 11.0  | 11.0              | 10.7              | 10.8              | 11.2              | 10.7  | 9.8   | 9.4   |
| <b>Ontario—</b>                               |       |       |       |       |       |                   |                   |                   |                   |       |       |       |
| Crude.....                                    | 11.8  | 11.4  | 11.8  | 10.8  | 10.9  | 11.3              | 10.8              | 11.3              | 11.4              | 11.0  | 10.4  | 10.5  |
| Adjusted.....                                 | 10.8  | 10.4  | 10.7  | 9.7   | 9.8   | 10.0              | 9.5               | 9.9               | 9.9               | 9.5   | 8.9   | 8.8   |
| <b>Manitoba—</b>                              |       |       |       |       |       |                   |                   |                   |                   |       |       |       |
| Crude.....                                    | 8.8   | 9.3   | 8.6   | 8.0   | 8.3   | 8.3               | 8.2               | 8.1               | 8.6               | 8.3   | 7.6   | 7.5   |
| Adjusted.....                                 | 9.6   | 10.3  | 9.4   | 8.7   | 9.0   | 9.0               | 8.7               | 8.6               | 9.0               | 8.6   | 7.9   | 7.8   |
| <b>Saskatchewan—</b>                          |       |       |       |       |       |                   |                   |                   |                   |       |       |       |
| Crude.....                                    | 7.4   | 8.0   | 7.9   | 7.3   | 7.0   | 7.4               | 7.2               | 7.2               | 7.6               | 7.0   | 6.6   | 6.5   |
| Adjusted.....                                 | 8.3   | 9.1   | 9.0   | 8.3   | 8.0   | 8.5               | 8.2               | 8.1               | 8.6               | 7.8   | 7.5   | 7.4   |
| <b>Alberta—</b>                               |       |       |       |       |       |                   |                   |                   |                   |       |       |       |
| Crude.....                                    | 8.4   | 8.9   | 8.4   | 8.1   | 7.8   | 8.5               | 8.0               | 8.7               | 9.1               | 7.8   | 7.2   | 7.5   |
| Adjusted.....                                 | 9.4   | 10.3  | 9.6   | 9.3   | 8.9   | 9.7               | 9.1               | 9.7               | 10.2              | 8.5   | 8.0   | 8.4   |
| <b>British Columbia—</b>                      |       |       |       |       |       |                   |                   |                   |                   |       |       |       |
| Crude.....                                    | 8.0   | 9.1   | 9.0   | 8.8   | 8.4   | 9.0               | 9.2               | 9.2               | 9.7               | 9.5   | 8.8   | 8.7   |
| Adjusted.....                                 | 8.4   | 9.6   | 9.4   | 9.0   | 8.5   | 8.9               | 9.0               | 8.8               | 9.1               | 8.7   | 8.1   | 8.0   |
| <b>Canada (Former Registration Area)—</b>     |       |       |       |       |       |                   |                   |                   |                   |       |       |       |
| Crude.....                                    | 10.6  | 10.6  | 10.7  | 10.0  | 9.9   | 10.3              | 9.9               | 10.2              | 10.5              | 10.0  | 9.4   | 9.4   |
| Adjusted.....                                 | 10.2  | 10.3  | 10.3  | 9.5   | 9.4   | 9.7               | 9.3               | 9.5               | 9.8               | 9.2   | 8.6   | 8.5   |
| <b>Quebec—</b>                                |       |       |       |       |       |                   |                   |                   |                   |       |       |       |
| Crude.....                                    | 1     | 1     | 1     | 1     | 1     | 14.3              | 13.6              | 13.5              | 13.4              | 12.7  | 12.0  | 11.4  |
| Adjusted.....                                 | 1     | 1     | 1     | 1     | 1     | 13.9 <sup>2</sup> | 13.2 <sup>2</sup> | 13.1 <sup>2</sup> | 13.1              | 12.4  | 11.7  | 11.1  |
| <b>Canada (Exclusive of the Territories)—</b> |       |       |       |       |       |                   |                   |                   |                   |       |       |       |
| Crude.....                                    | 1     | 1     | 1     | 1     | 1     | 11.4              | 10.9              | 11.1              | 11.3              | 10.7  | 10.1  | 9.9   |
| Adjusted.....                                 | 1     | 1     | 1     | 1     | 1     | 10.8 <sup>2</sup> | 10.4 <sup>2</sup> | 10.5 <sup>2</sup> | 10.7 <sup>2</sup> | 10.1  | 9.5   | 9.3   |

<sup>1</sup>Quebec was not included in the registration area prior to 1926.<sup>2</sup>Revised since the publication of the 1933 Year Book.

**Causes of Death.**—More than 86 p.c. of deaths recorded in the present registration area in the years 1931 to 1933 were due to the 32 specific causes named in Tables 24 and 25. In these tables the groupings for the years 1931-33 are in accordance with the revision of the International List in 1929, which was first applied to Canadian mortality statistics for the year 1931. In some cases, however, the figures for years earlier than 1931 cannot be made exactly comparable with this grouping. These cases are indicated by footnote 2 to Table 24. In the chart which accompanies the tables, the main object has been to attain the greatest degree of comparability possible over the whole period 1926-33. For this purpose it has been necessary to depart somewhat from the grouping of Tables 24 and 25. The cases in which this occurs are indicated on the chart by asterisks.

Total deaths in 1933 were the lowest they have been since statistics for the whole of Canada were made possible by Quebec coming into the registration area in 1926. The influenza epidemic of 1929 accounted for an increase in the total, but the deaths from this cause have worked back to a normal level since that year. It is significant, however, that cancer and diseases of the arteries are increasingly important causes of death in spite of all efforts to control them. Suicides show an improvement from the high level reached in 1932. Violent deaths other than suicides have shown a very definite improvement since 1930.



## 24.—Deaths in Canada, by Principal Causes, 1928-33.

| Int. List No. <sup>1</sup> | Cause of Death.                                     | 1928.          | 1929.          | 1930.          | 1931.               | 1932.          | 1933.          |
|----------------------------|-----------------------------------------------------|----------------|----------------|----------------|---------------------|----------------|----------------|
| 1, 2                       | Typhoid fever.....                                  | 467            | 467            | 451            | 421                 | 339            | 291            |
| 7                          | Measles.....                                        | 337            | 619            | 521            | 167                 | 330            | 170            |
| 8                          | Scarlet fever.....                                  | 346            | 440            | 397            | 253                 | 197            | 157            |
| 9                          | Whooping cough.....                                 | 727            | 755            | 964            | 748                 | 555            | 552            |
| 10                         | Diphtheria.....                                     | 916            | 980            | 737            | 646                 | 398            | 239            |
| 11                         | Influenza <sup>2</sup> .....                        | 4,703          | 7,170          | 2,472          | 3,217               | 4,236          | 4,019          |
| 16                         | Poliomyelitis and polioencephalitis (acute).....    | 182            | 152            | 215            | 223                 | 164            | 73             |
| 17                         | Epidemic or lethargic encephalitis.....             | 120            | 118            | 88             | 77                  | 76             | 58             |
| 18                         | Epidemic or cerebro-spinal meningitis.....          | 235            | 241            | 204            | 225                 | 139            | 109            |
| 23                         | Tuberculosis, respiratory system <sup>2</sup> ..... | 6,490          | 6,443          | 6,581          | 6,204               | 5,870          | 5,664          |
| 24-32                      | Tuberculosis, other organs.....                     | 1,370          | 1,329          | 1,494          | 1,412               | 1,296          | 1,275          |
| 45-53                      | Cancer.....                                         | 8,514          | 8,792          | 9,273          | 9,578               | 10,024         | 10,653         |
| 59                         | Diabetes mellitus.....                              | 1,097          | 1,208          | 1,146          | 1,244               | 1,343          | 1,287          |
| 71                         | Anæmia.....                                         | 732            | 693            | 740            | 716                 | 728            | 736            |
| 82 a, b, c                 | Cerebral hæmorrhage, embolism or thrombosis.....    | 3,094          | 2,986          | 2,827          | 2,594               | 2,533          | 2,639          |
| 82d                        | Paralysis without specified cause.....              | 1,011          | 984            | 907            | 728                 | 654            | 559            |
| 86                         | Convulsions (under 5 years of age).....             | 440            | 429            | 380            | 368                 | 304            | 262            |
| 90-95                      | Diseases of the heart <sup>2</sup> .....            | 12,630         | 13,205         | 13,067         | 13,734              | 15,328         | 15,485         |
| 96, 97                     | Diseases of the arteries <sup>2</sup> .....         | 5,344          | 5,940          | 6,560          | 5,957 <sup>3</sup>  | 6,798          | 6,950          |
| 99, 102                    | Bronchitis.....                                     | 522            | 471            | 443            | 469                 | 437            | 367            |
| 106                        | Pneumonia.....                                      | 8,425          | 8,441          | 7,338          | 7,011               | 7,045          | 6,487          |
| 107-109                    | Diarrhoea and enteritis <sup>2</sup> .....          | 5,032          | 4,910          | 6,013          | 5,153               | 3,735          | 3,395          |
| 119-120                    | Appendicitis.....                                   | 1,405          | 1,451          | 1,488          | 1,394               | 1,454          | 1,455          |
| 121                        | Hernia, intestinal obstruction.....                 | 856            | 962            | 963            | 987                 | 947            | 1,029          |
| 122                        | Nephritis.....                                      | 5,715          | 5,687          | 5,570          | 5,168               | 5,635          | 5,516          |
| 130-132                    | Diseases of the prostate <sup>2</sup> .....         | 785            | 739            | 801            | 746                 | 879            | 926            |
| 140-150                    | Puerperal causes.....                               | 1,331          | 1,341          | 1,405          | 1,215               | 1,181          | 1,111          |
| 157                        | Congenital malformations.....                       | 1,441          | 1,466          | 1,475          | 1,427               | 1,349          | 1,374          |
| 158-161                    | Diseases of early infancy <sup>2</sup> .....        | 9,215          | 9,144          | 8,974          | 9,019               | 7,932          | 7,337          |
| 162                        | Senility (old age).....                             | 2,408          | 2,505          | 2,334          | 2,225               | 2,192          | 2,037          |
| 163-171                    | Suicides.....                                       | 751            | 835            | 1,010          | 1,004               | 1,024          | 922            |
| 173-198                    | Violent deaths (suicides excepted).....             | 6,174          | 6,316          | 6,468          | 6,168               | 5,621          | 5,294          |
|                            | Other specified causes <sup>2</sup> .....           | 14,791         | 15,020         | 14,919         | 12,914 <sup>3</sup> | 12,617         | 12,546         |
|                            | Totals, Specified Causes.....                       | 107,906        | 112,339        | 108,315        | 103,417             | 103,370        | 109,975        |
| 199, 200                   | Ill-defined diseases.....                           | 1,151          | 1,176          | 991            | 1,100               | 1,007          | 993            |
|                            | <b>Totals.....</b>                                  | <b>109,057</b> | <b>113,515</b> | <b>109,306</b> | <b>104,517</b>      | <b>104,377</b> | <b>101,968</b> |

<sup>1</sup> The numbers given in this column refer to the International List of Causes of Death, as revised in 1929 by the International Commission on the Classification of Diseases and Causes of Death. This classification, in its detailed, intermediate or abridged form, is accepted in almost all civilized countries.

<sup>2</sup> For these causes of death the comparability between the figures for the years 1928-30 and those for the years 1931-33 is not exact, owing to changes in classification.

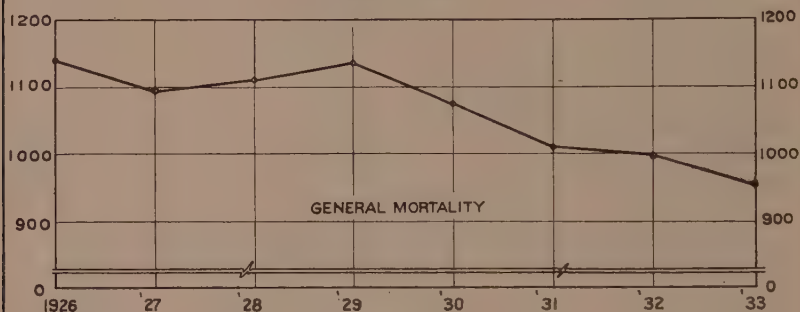
<sup>3</sup> Revised since the publication of the 1933 Year Book.

## 25.—Death Rates per 100,000 Population in Canada, by Principal Causes, 1928-33.

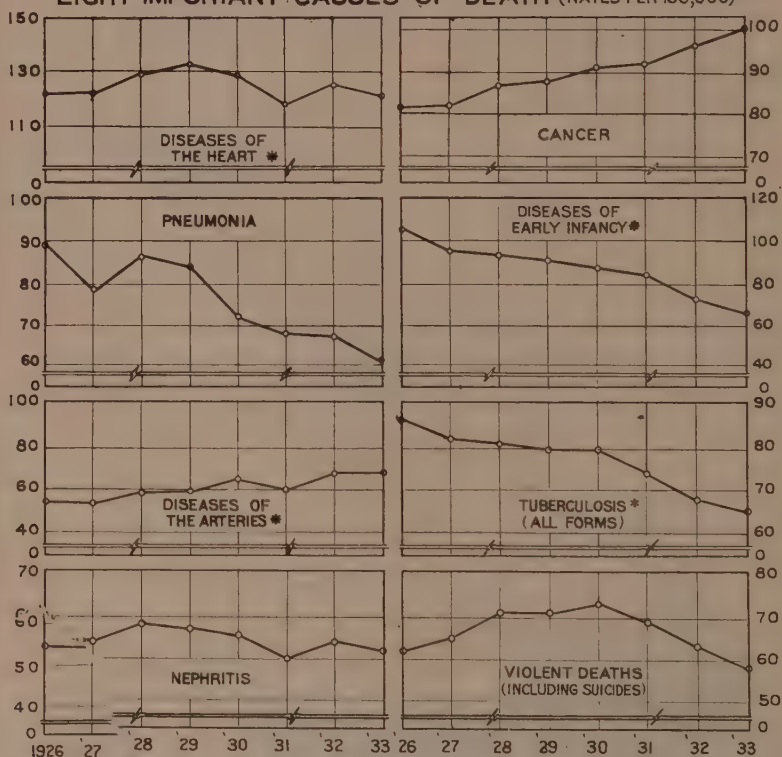
| Int. List No. <sup>1</sup> | Cause of Death.                                     | 1928. | 1929. | 1930. | 1931. | 1932. | 1933. |
|----------------------------|-----------------------------------------------------|-------|-------|-------|-------|-------|-------|
| 1, 2                       | Typhoid fever.....                                  | 5     | 5     | 4     | 4     | 3     | 3     |
| 7                          | Measles.....                                        | 3     | 6     | 5     | 2     | 3     | 2     |
| 8                          | Scarlet fever.....                                  | 4     | 4     | 4     | 2     | 2     | 1     |
| 9                          | Whooping cough.....                                 | 7     | 8     | 9     | 7     | 5     | 5     |
| 10                         | Diphtheria.....                                     | 9     | 10    | 7     | 6     | 4     | 2     |
| 11                         | Influenza <sup>2</sup> .....                        | 48    | 72    | 24    | 31    | 40    | 38    |
| 16                         | Poliomyelitis and polioencephalitis (acute).....    | 2     | 2     | 2     | 2     | 2     | 1     |
| 17                         | Epidemic or lethargic encephalitis.....             | 1     | 1     | 1     | 1     | 1     | 1     |
| 18                         | Epidemic or cerebro-spinal meningitis.....          | 2     | 3     | 3     | 2     | 1     | 1     |
| 23                         | Tuberculosis, respiratory system <sup>2</sup> ..... | 66    | 64    | 65    | 60    | 56    | 53    |
| 24-32                      | Tuberculosis, other organs.....                     | 14    | 13    | 15    | 14    | 12    | 12    |
| 45-53                      | Cancer.....                                         | 87    | 88    | 91    | 92    | 96    | 100   |
| 59                         | Diabetes mellitus.....                              | 11    | 12    | 11    | 12    | 13    | 12    |
| 71                         | Anæmia.....                                         | 7     | 7     | 7     | 7     | 7     | 7     |
| 82 a, b, c                 | Cerebral hæmorrhage, embolism or thrombosis.....    | 32    | 30    | 28    | 25    | 24    | 25    |
| 82d                        | Paralysis without specified cause.....              | 10    | 10    | 9     | 7     | 6     | 5     |

<sup>1</sup> See footnote 1, Table 24.

**DEATH RATES PER 100,000 POPULATION  
IN CANADA**  
(EXCLUSIVE OF THE NORTH-WEST TERRITORIES AND YUKON)  
1926 - 1933



**EIGHT IMPORTANT CAUSES OF DEATH (RATES PER 100,000)**



\*The rubrics (of the International List) included in the indicated groups have been selected so as to preserve the greatest degree of continuity possible. See text, p. 196.

**25.—Death Rates per 100,000 Population in Canada, by Principal Causes, 1928-33—concluded.**

| Int. List No. <sup>1</sup> | Cause of Death.                                        | 1928.        | 1929.        | 1930.        | 1931.            | 1932.      | 1933.      |
|----------------------------|--------------------------------------------------------|--------------|--------------|--------------|------------------|------------|------------|
| 86                         | Convulsions (under 5 years of age).....                | 4            | 4            | 4            | 4                | 3          | 2          |
| 90 95                      | Diseases of the heart <sup>2</sup> .....               | 129          | 132          | 128          | 133              | 146        | 145        |
| 96, 97                     | Diseases of the arteries <sup>2</sup> .....            | 57           | 59           | 64           | 57 <sup>3</sup>  | 65         | 65         |
| 99, 102                    | Bronchitis.....                                        | 5            | 5            | 4            | 5                | 4          | 3          |
| 106                        | Pneumonia.....                                         | 86           | 84           | 72           | 68               | 67         | 61         |
| 107-109                    | Diarrhoea and enteritis <sup>2</sup> .....             | 51           | 49           | 59           | 50               | 36         | 32         |
| 119, 120                   | Appendicitis.....                                      | 14           | 14           | 15           | 13               | 14         | 14         |
| 121                        | Hernia, intestinal obstruction.....                    | 9            | 10           | 9            | 10               | 9          | 10         |
| 122                        | Nephritis.....                                         | 58           | 57           | 55           | 50               | 54         | 52         |
| 130-132                    | Diseases of the prostate <sup>2</sup> .....            | 8            | 7            | 8            | 7                | 8          | 9          |
| 137                        | Puerperal causes.....                                  | 14           | 13           | 14           | 12               | 11         | 10         |
| 140-150                    | Congenital malformations.....                          | 15           | 15           | 14           | 14               | 13         | 13         |
| 157                        | Diseases of early infancy <sup>2</sup> .....           | 94           | 91           | 88           | 87               | 76         | 69         |
| 158-161                    | Senility (old age).....                                | 25           | 25           | 23           | 21               | 21         | 19         |
| 162                        | Suicides.....                                          | 8            | 8            | 10           | 10               | 10         | 9          |
| 163-171                    | Violent deaths (suicides excepted).....                | 63           | 63           | 63           | 60               | 54         | 50         |
| 173-198                    | Other Specified Causes <sup>2</sup> .....              | 151          | 150          | 146          | 125 <sup>3</sup> | 120        | 118        |
|                            | Totals, Specified Causes.....                          | 1,099        | 1,122        | 1,062        | 998              | 985        | 947        |
| 199, 200                   | Ill-defined diseases.....                              | 12           | 12           | 10           | 11               | 10         | 9          |
|                            | <b>Totals, Death Rates per 100,000 Population.....</b> | <b>1,110</b> | <b>1,133</b> | <b>1,072</b> | <b>1,009</b>     | <b>995</b> | <b>956</b> |

For footnotes see Table 24.

**Deaths in Canadian Cities.**—Table 26 gives the number of deaths in Canadian cities and towns of 10,000 population and over in each of the years from 1929 to 1933. Generally speaking, 1929 was a year of high death rates, the total number of deaths reported for the Dominion being 113,515 as compared with 105,136 in 1927 and an average of 108,924 for the period 1926-30. The 1929 figures for most cities show a corresponding increase in the number of deaths. It is probable that these cities contained a larger proportion of the total population in 1929 than in 1927 and it is quite likely that the number of non-residents dying in the hospitals of the cities is also on the increase. In view of these probabilities it is noteworthy that only 11 of the 70 cities and towns listed show increases of deaths in 1933 over the 1929 level. None of the larger cities is included in this group; indeed, in all of the larger cities the improvement has been most substantial.

**26.—Total Deaths (Exclusive of Stillbirths) in Cities and Towns of 10,000 Population and Over, 1929-33.**

| City or Town.             | 1929. | 1930. | 1931. | 1932. | 1933. |
|---------------------------|-------|-------|-------|-------|-------|
| Belleville, Ont.....      | 241   | 242   | 230   | 244   | 208   |
| Brandon, Man.....         | 279   | 243   | 240   | 227   | 216   |
| Brantford, Ont.....       | 405   | 395   | 380   | 352   | 376   |
| Calgary, Alta.....        | 874   | 781   | 695   | 748   | 708   |
| Charlottetown, P.E.I..... | 310   | 283   | 257   | 285   | 252   |
| Chatham, Ont.....         | 315   | 320   | 313   | 311   | 288   |
| Chicoutimi, Que.....      | 210   | 174   | 187   | 200   | 247   |
| Cornwall, Ont.....        | 228   | 225   | 230   | 250   | 209   |
| East Windsor, Ont.....    | 76    | 58    | 56    | 51    | 49    |
| Edmonton, Alta.....       | 988   | 876   | 797   | 921   | 870   |
| Fort William, Ont.....    | 244   | 208   | 216   | 201   | 198   |
| Galt, Ont.....            | 167   | 189   | 148   | 191   | 201   |
| Gloucester, Ont.....      | 239   | 308   | 263   | 267   | 235   |

**26.—Total Deaths (Exclusive of Stillbirths) in Cities and Towns of 10,000 Population and Over, 1929-33—concluded.**

| City or Town.                      | 1929.  | 1930.  | 1931.  | 1932.  | 1933. |
|------------------------------------|--------|--------|--------|--------|-------|
| Granby, Que.....                   | 142    | 109    | 142    | 124    | 76    |
| Guelph, Ont.....                   | 245    | 233    | 234    | 233    | 236   |
| Halifax, N.S.....                  | 987    | 863    | 875    | 931    | 883   |
| Hamilton, Ont.....                 | 1,612  | 1,506  | 1,532  | 1,510  | 1,406 |
| Hull, Que.....                     | 327    | 331    | 399    | 362    | 343   |
| Joliette, Que.....                 | 187    | 181    | 192    | 156    | 175   |
| Kingston, Ont.....                 | 536    | 512    | 449    | 501    | 445   |
| Kitchener, Ont.....                | 294    | 348    | 318    | 385    | 354   |
| Lachine, Que.....                  | 200    | 196    | 198    | 177    | 179   |
| Lethbridge, Alta.....              | 217    | 199    | 166    | 197    | 198   |
| Lévis, Que.....                    | 215    | 218    | 255    | 228    | 204   |
| London, Ont.....                   | 1,126  | 1,080  | 960    | 1,066  | 1,019 |
| Medicine Hat, Alta.....            | 162    | 148    | 149    | 123    | 123   |
| Moncton, N.B.....                  | 243    | 273    | 214    | 259    | 266   |
| Montreal, Que.....                 | 11,452 | 10,979 | 10,554 | 10,410 | 9,239 |
| Moose Jaw, Sask.....               | 236    | 218    | 210    | 194    | 217   |
| New Westminster, B.C.....          | 291    | 282    | 291    | 278    | 286   |
| Niagara Falls, Ont.....            | 266    | 209    | 212    | 192    | 206   |
| North Bay, Ont.....                | 166    | 180    | 139    | 151    | 138   |
| Oshawa, Ont.....                   | 214    | 234    | 207    | 184    | 167   |
| Ottawa, Ont.....                   | 1,773  | 1,747  | 1,709  | 1,727  | 1,701 |
| Outremont, Que.....                | 128    | 135    | 130    | 152    | 166   |
| Owen Sound, Ont.....               | 176    | 157    | 177    | 197    | 179   |
| Peterborough, Ont.....             | 347    | 304    | 323    | 329    | 290   |
| Port Arthur, Ont.....              | 233    | 241    | 213    | 205    | 187   |
| Quebec, Que.....                   | 2,251  | 2,481  | 2,135  | 2,041  | 2,043 |
| Regina, Sask.....                  | 555    | 507    | 455    | 469    | 457   |
| St. Boniface, Man.....             | 529    | 502    | 424    | 425    | 395   |
| St. Catharines, Ont.....           | 345    | 322    | 276    | 288    | 281   |
| St. Hyacinthe, Que.....            | 332    | 325    | 295    | 327    | 294   |
| St. Jean, Que.....                 | 112    | 116    | 127    | 137    | 111   |
| Saint John, N.B.....               | 786    | 685    | 688    | 707    | 726   |
| St. Thomas, Ont.....               | 243    | 228    | 204    | 223    | 225   |
| Sandwich, Ont.....                 | 71     | 76     | 58     | 51     | 63    |
| Sarnia, Ont.....                   | 233    | 238    | 223    | 243    | 235   |
| Saskatoon, Sask.....               | 499    | 499    | 432    | 467    | 429   |
| Sault Ste. Marie, Ont.....         | 209    | 230    | 222    | 217    | 187   |
| Shawinigan Falls, Que.....         | 212    | 191    | 177    | 148    | 159   |
| Sherbrooke, Que.....               | 481    | 442    | 450    | 438    | 416   |
| Sorel, Que.....                    | 173    | 181    | 156    | 130    | 129   |
| Stratford, Ont.....                | 203    | 208    | 196    | 190    | 198   |
| Sudbury, Ont.....                  | 247    | 296    | 253    | 242    | 212   |
| Sydney, N.S.....                   | 186    | 224    | 186    | 204    | 213   |
| Thetford Mines, Que.....           | 194    | 166    | 128    | 133    | 146   |
| Three Rivers, Que.....             | 592    | 542    | 630    | 528    | 598   |
| Timmins, Ont.....                  | 138    | 126    | 182    | 157    | 163   |
| Toronto, Ont.....                  | 7,100  | 7,057  | 6,745  | 6,627  | 6,485 |
| Valleyfield, Que.....              | 152    | 168    | 151    | 174    | 147   |
| Vancouver, B.C. <sup>1</sup> ..... | 2,310  | 2,281  | 2,300  | 2,301  | 2,239 |
| Verdun, Que.....                   | 425    | 424    | 449    | 459    | 409   |
| Victoria, B.C.....                 | 590    | 607    | 526    | 541    | 543   |
| Walkerville, Ont.....              | 211    | 203    | 191    | 171    | 197   |
| Welland, Ont.....                  | 159    | 165    | 151    | 129    | 121   |
| Westmount, Que.....                | 152    | 261    | 212    | 278    | 231   |
| Windsor, Ont.....                  | 689    | 612    | 551    | 549    | 486   |
| Winnipeg, Man.....                 | 1,814  | 1,807  | 1,706  | 1,705  | 1,656 |
| Woodstock, Ont.....                | 193    | 162    | 159    | 173    | 181   |

<sup>1</sup> Including Point Grey and South Vancouver.

**Comparative Crude Death Rates of Different Countries.**—In Table 27 will be found a comparative statement of the crude death rates of various countries and of the provinces of Canada for the latest available year. It is worthy of note that three Canadian provinces show the lowest death rates in the list and that Canada has a lower death rate than most other leading countries. Canada, New Zealand, Australia, and South Africa are the only countries with death rates under



10.0 per 1,000 of population, with the exception of the Netherlands. The low death rates in the Prairie Provinces are in all three cases due in part to a favourable age distribution of population.

### 27.—Crude Death Rates of Various Countries in Recent Years.

| Country or Province.               | Year.       | Crude Death Rate. | Country or Province.     | Year. | Crude Death Rate. |
|------------------------------------|-------------|-------------------|--------------------------|-------|-------------------|
| Saskatchewan.....                  | 1933        | 6.3               | British Isles.....       | 1932  | 12.4              |
| Alberta.....                       | 1933        | 7.1               | Finland.....             | 1932  | 12.6              |
| Manitoba.....                      | 1933        | 7.6               | Newfoundland.....        | 1932  | 12.6              |
| New Zealand.....                   | 1932        | 8.0               | Panama.....              | 1931  | 12.7              |
| Queensland.....                    | 1932        | 8.0               | Belgium.....             | 1932  | 13.3              |
| New South Wales.....               | 1932        | 8.4               | Scotland.....            | 1932  | 13.5              |
| South Australia.....               | 1932        | 8.5               | Latvia.....              | 1932  | 13.6              |
| Australia.....                     | 1932        | 8.7               | Austria.....             | 1932  | 13.9              |
| British Columbia.....              | 1933        | 8.7               | Czechoslovakia.....      | 1932  | 14.1              |
| Western Australia.....             | 1932        | 8.8               | Northern Ireland.....    | 1932  | 14.1              |
| Netherlands.....                   | 1932        | 9.0               | Irish Free State.....    | 1932  | 14.5              |
| Tasmania.....                      | 1932        | 9.1               | Italy.....               | 1932  | 14.7              |
| Victoria.....                      | 1932        | 9.3               | Estonia.....             | 1932  | 14.8              |
| <b>Canada.....</b>                 | <b>1933</b> | <b>9.6</b>        | Poland.....              | 1932  | 15.0              |
| Union of South Africa (Whites).... | 1932        | 10.0              | France.....              | 1932  | 15.8              |
| Ontario.....                       | 1933        | 10.0              | Bulgaria.....            | 1932  | 16.2              |
| Uruguay.....                       | 1932        | 10.1              | Spain.....               | 1931  | 17.3              |
| Norway.....                        | 1932        | 10.6              | Ukraine.....             | 1929  | 17.6              |
| Quebec.....                        | 1933        | 10.7              | Japan.....               | 1932  | 17.7              |
| Germany.....                       | 1932        | 10.8              | Greece.....              | 1932  | 17.9              |
| Iceland.....                       | 1932        | 10.8              | Hungary.....             | 1932  | 17.9              |
| United States (Reg. Area).....     | 1932        | 10.9              | Costa Rica.....          | 1932  | 20.3              |
| Denmark.....                       | 1932        | 11.0              | Ceylon.....              | 1932  | 20.5              |
| Prussia.....                       | 1931        | 11.1              | Russia.....              | 1929  | 20.6              |
| Nova Scotia.....                   | 1933        | 11.6              | Salvador.....            | 1932  | 21.2              |
| Prince Edward Island.....          | 1933        | 11.6              | Straits Settlements..... | 1932  | 21.4              |
| Sweden.....                        | 1932        | 11.6              | British India.....       | 1932  | 21.6              |
| New Brunswick.....                 | 1933        | 11.7              | Roumania.....            | 1932  | 21.7              |
| England and Wales.....             | 1932        | 12.0              | Chile.....               | 1932  | 22.8              |
| Switzerland.....                   | 1932        | 12.1              | Egypt.....               | 1931  | 25.9              |

### Subsection 2.—Infantile and Maternal Mortality.

In recent years a great part of the energy devoted by the medical profession and sanitarians to effect a decline in the death rate has gone to reduce infantile mortality, and in this field a large measure of success has been attained. In Canada, the Dominion, provincial and municipal health authorities have all taken part in the struggle to reduce infantile mortality, and usually, in the absence of epidemics, each year is showing an improvement. In the twelve years for which the figures are available there is evident a very considerable decline in infantile mortality. In 1921 the infant death rate for Canada (using figures from provincial sources for Quebec) was 102 per 1,000 live births. This rate had been reduced to 73.1 in 1933. Table 28 gives figures for the whole of Canada for the years 1931 to 1933 and averages for the five-year periods 1921-25 and 1926-30. As in the case of general mortality, the infant mortality in Quebec exceeds that in any other province, although a study of the rates shows that steady improvement has been made in the eight-year period during which the province has been included in the registration area. In Canada as a whole, over 6,000 infant lives were preserved in 1931 which, under conditions prevailing in 1926, would probably have been lost.

# 28.—Infantile Mortality, by Provinces, together with the Rate per 1,000 Live Births, 1931-33 with Averages for 1921-25 and 1926-30.

## A.—INFANT DEATHS.

| Year.                   | P.E.I. | N.S.  | N.B.  | Que.   | Ont.  | Man.  | Sask. | Alta. | B.C. | Canada. <sup>2</sup> |
|-------------------------|--------|-------|-------|--------|-------|-------|-------|-------|------|----------------------|
| Averages, 1921-25 ..... | 151    | 1,139 | 1,165 | 1      | 5,916 | 1,394 | 1,789 | 1,327 | 621  | 1                    |
| Averages, 1926-30 ..... | 122    | 934   | 1,039 | 10,518 | 5,091 | 1,031 | 1,559 | 1,195 | 571  | 22,060               |
| 1931 .....              | 128    | 914   | 944   | 9,443  | 4,833 | 924   | 1,463 | 1,197 | 514  | 20,360               |
| 1932 .....              | 132    | 849   | 774   | 7,744  | 4,133 | 836   | 1,321 | 997   | 477  | 17,263               |
| 1933 .....              | 118    | 791   | 821   | 7,270  | 3,804 | 844   | 1,231 | 966   | 439  | 16,284               |

## B.—INFANT DEATH RATES PER 1,000 LIVE BIRTHS.

|                         |      |      |       |       |      |      |      |      |      |      |
|-------------------------|------|------|-------|-------|------|------|------|------|------|------|
| Averages, 1921-25 ..... | 76.8 | 93.7 | 105.0 | 1     | 82.7 | 83.7 | 83.0 | 85.8 | 60.6 | 1    |
| Averages, 1926-30 ..... | 70.6 | 84.8 | 100.7 | 127.1 | 74.1 | 71.6 | 73.3 | 75.5 | 55.2 | 93.3 |
| 1931 .....              | 68.1 | 78.7 | 87.4  | 112.9 | 69.8 | 64.3 | 68.6 | 69.4 | 49.4 | 84.7 |
| 1932 .....              | 65.1 | 73.0 | 71.6  | 94.2  | 61.8 | 59.2 | 63.5 | 53.7 | 46.7 | 73.3 |
| 1933 .....              | 60.6 | 70.9 | 81.8  | 94.5  | 59.8 | 63.4 | 61.1 | 59.9 | 45.8 | 73.1 |

<sup>1</sup> Quebec was not included in the registration area prior to 1926.

<sup>2</sup> Exclusive of the Territories.

**Infantile Mortality by Causes of Death.**—Twenty-one principal causes of death accounted in the years 1926 to 1933 for between 91 and 93 p.c. of the infantile mortality experienced in the Dominion, as is shown in Table 29. It is noteworthy that four causes present at birth, *viz.*, premature birth, injury at birth, congenital debility and congenital malformations, accounted for nearly 45 p.c. of the infant deaths of 1933. This percentage shows a definite increase in the years covered. In 1926 it was 41.4 and in 1930, 42.3, and since the total number of infant deaths has decreased by no less than 31 p.c. in the interval since 1926, great improvement in the post-natal care of infants is indicated. In the years 1931 and 1932, 48.6 p.c. and 51.2 p.c., respectively, of all infants dying were less than one month old, and 34.1 p.c. and 36.5 p.c., respectively, were less than one week old, as is shown in Table 30.

## 29.—Infantile Mortality in Canada by Principal Causes of Death, 1926, 1931-33.

NOTE.—Figures for the former registration area for the single years 1921 to 1924 will be found at pp. 182-183 of the 1927-28 Year Book, and for 1925 to 1927 at pp. 177-178 of the 1929 Year Book. Figures for the whole of Canada for the years 1927 and 1928 will be found at pp. 138-140 of the 1932 Year Book, and for 1929 and 1930 at pp. 177-178 of the 1933 Year Book.

| Cause of Death.                                     | Inter-<br>national<br>List<br>No. | Year. | Numbers. |               |       | Rates per 100,000<br>Live Births. |               |       | Percent-<br>age<br>Distribution<br>by<br>Cause of<br>Death. |
|-----------------------------------------------------|-----------------------------------|-------|----------|---------------|-------|-----------------------------------|---------------|-------|-------------------------------------------------------------|
|                                                     |                                   |       | Males.   | Fe-<br>males. | Both. | Males.                            | Fe-<br>males. | Both. |                                                             |
| Measles .....                                       | 7                                 | 1926  | 141      | 122           | 263   | 118                               | 108           | 113   | 1.1                                                         |
|                                                     |                                   | 1931  | 29       | 27            | 56    | 23                                | 23            | 23    | 0.3                                                         |
|                                                     |                                   | 1932  | 61       | 58            | 119   | 50                                | 51            | 50    | 0.7                                                         |
|                                                     |                                   | 1933  | 33       | 27            | 60    | 29                                | 25            | 27    | 0.4                                                         |
| Scarlet fever .....                                 | 8                                 | 1926  | 13       | 12            | 25    | 11                                | 11            | 11    | 0.1                                                         |
|                                                     |                                   | 1931  | 7        | 7             | 14    | 6                                 | 6             | 6     | 0.1                                                         |
|                                                     |                                   | 1932  | 10       | 3             | 13    | 8                                 | 3             | 6     | 0.1                                                         |
|                                                     |                                   | 1933  | 6        | 6             | 12    | 5                                 | 6             | 5     | 0.1                                                         |
| Whooping cough .....                                | 9                                 | 1926  | 358      | 415           | 773   | 299                               | 368           | 332   | 3.3                                                         |
|                                                     |                                   | 1931  | 243      | 259           | 502   | 197                               | 222           | 209   | 2.5                                                         |
|                                                     |                                   | 1932  | 163      | 176           | 339   | 135                               | 154           | 144   | 2.0                                                         |
|                                                     |                                   | 1933  | 186      | 202           | 388   | 163                               | 186           | 174   | 2.4                                                         |
| Diphtheria .....                                    | 10                                | 1926  | 24       | 23            | 47    | 20                                | 20            | 20    | 0.2                                                         |
|                                                     |                                   | 1931  | 30       | 24            | 54    | 24                                | 21            | 22    | 0.3                                                         |
|                                                     |                                   | 1932  | 13       | 14            | 27    | 11                                | 12            | 11    | 0.2                                                         |
|                                                     |                                   | 1933  | 14       | 5             | 19    | 12                                | 5             | 9     | 0.1                                                         |
| Influenza <sup>2</sup> .....                        | 11                                | 1926  | 576      | 374           | 950   | 481                               | 331           | 408   | 4.0                                                         |
|                                                     |                                   | 1931  | 372      | 319           | 691   | 301                               | 273           | 287   | 3.4                                                         |
|                                                     |                                   | 1932  | 383      | 284           | 667   | 316                               | 248           | 283   | 3.9                                                         |
|                                                     |                                   | 1933  | 412      | 335           | 747   | 360                               | 309           | 335   | 4.6                                                         |
| Erysipelas .....                                    | 15                                | 1926  | 51       | 50            | 101   | 43                                | 44            | 43    | 0.4                                                         |
|                                                     |                                   | 1931  | 35       | 28            | 63    | 28                                | 24            | 26    | 0.3                                                         |
|                                                     |                                   | 1932  | 37       | 31            | 68    | 31                                | 27            | 29    | 0.4                                                         |
|                                                     |                                   | 1933  | 24       | 36            | 60    | 21                                | 33            | 27    | 0.4                                                         |
| Poliomyelitis and polio-<br>encephalitis (acute)... | 16                                | 1926  | 6        | 2             | 8     | 5                                 | 3             | 4     | 0.3                                                         |
|                                                     |                                   | 1931  | 7        | 13            | 20    | 6                                 | 11            | 8     | 0.1                                                         |
|                                                     |                                   | 1932  | 15       | 4             | 19    | 12                                | 3             | 8     | 0.1                                                         |
|                                                     |                                   | 1933  | 3        | 2             | 5     | 3                                 | 2             | 2     | 1                                                           |

For footnotes, see end of table, p. 203.

29.—Infantile Mortality in Canada by Principal Causes of Death, 1926, 1931-33  
—concluded.

| Cause of Death.                                                | Inter-<br>national<br>List<br>No. | Year. | Numbers. |               |        | Rates per 100,000<br>Live Births. |               |        | Percent-<br>age<br>Distribution<br>by<br>Cause of<br>Death. |
|----------------------------------------------------------------|-----------------------------------|-------|----------|---------------|--------|-----------------------------------|---------------|--------|-------------------------------------------------------------|
|                                                                |                                   |       | Males.   | Fe-<br>males. | Both.  | Males.                            | Fe-<br>males. | Both.  |                                                             |
| Epidemic cerebro-spinal<br>meningitis.....                     | 18                                | 1926  | 33       | 24            | 57     | 28                                | 21            | 24     | 0.2                                                         |
|                                                                |                                   | 1931  | 32       | 30            | 62     | 26                                | 26            | 26     | 0.3                                                         |
|                                                                |                                   | 1932  | 17       | 13            | 30     | 14                                | 11            | 13     | 0.2                                                         |
|                                                                |                                   | 1933  | 13       | 11            | 24     | 11                                | 10            | 11     | 0.1                                                         |
| Tuberculosis <sup>2</sup> .....                                | 23-32                             | 1926  | 131      | 102           | 233    | 109                               | 90            | 100    | 1.0                                                         |
|                                                                |                                   | 1931  | 111      | 84            | 195    | 90                                | 72            | 81     | 1.0                                                         |
|                                                                |                                   | 1932  | 93       | 81            | 174    | 77                                | 71            | 74     | 1.0                                                         |
|                                                                |                                   | 1933  | 77       | 73            | 150    | 67                                | 67            | 67     | 0.9                                                         |
| Syphilis.....                                                  | 34                                | 1926  | 68       | 60            | 128    | 57                                | 53            | 55     | 0.5                                                         |
|                                                                |                                   | 1931  | 93       | 80            | 173    | 75                                | 68            | 72     | 0.8                                                         |
|                                                                |                                   | 1932  | 109      | 81            | 190    | 90                                | 71            | 81     | 1.1                                                         |
|                                                                |                                   | 1933  | 99       | 66            | 165    | 87                                | 61            | 74     | 1.0                                                         |
| Convulsions.....                                               | 86                                | 1926  | 263      | 177           | 440    | 219                               | 157           | 189    | 1.9                                                         |
|                                                                |                                   | 1931  | 164      | 117           | 281    | 133                               | 100           | 117    | 1.4                                                         |
|                                                                |                                   | 1932  | 142      | 92            | 234    | 117                               | 80            | 99     | 1.4                                                         |
|                                                                |                                   | 1933  | 123      | 75            | 198    | 108                               | 69            | 89     | 1.2                                                         |
| Bronchitis.....                                                | 106                               | 1926  | 90       | 60            | 150    | 75                                | 53            | 64     | 0.6                                                         |
|                                                                |                                   | 1931  | 66       | 38            | 104    | 53                                | 33            | 43     | 0.5                                                         |
|                                                                |                                   | 1932  | 49       | 43            | 92     | 40                                | 38            | 39     | 0.5                                                         |
|                                                                |                                   | 1933  | 51       | 26            | 77     | 45                                | 24            | 35     | 0.5                                                         |
| Pneumonia.....                                                 | 107-109                           | 1926  | 1,410    | 1,077         | 2,487  | 1,176                             | 954           | 1,069  | 10.5                                                        |
|                                                                |                                   | 1931  | 1,243    | 921           | 2,164  | 1,005                             | 788           | 900    | 10.6                                                        |
|                                                                |                                   | 1932  | 1,045    | 797           | 1,842  | 863                               | 696           | 782    | 10.7                                                        |
|                                                                |                                   | 1933  | 979      | 780           | 1,759  | 856                               | 719           | 789    | 10.8                                                        |
| Diseases of the stomach                                        | 116-118                           | 1926  | 156      | 126           | 282    | 130                               | 112           | 121    | 1.2                                                         |
|                                                                |                                   | 1931  | 99       | 52            | 151    | 80                                | 45            | 63     | 0.7                                                         |
|                                                                |                                   | 1932  | 83       | 76            | 159    | 69                                | 66            | 67     | 0.9                                                         |
|                                                                |                                   | 1933  | 60       | 79            | 139    | 52                                | 73            | 62     | 0.9                                                         |
| Diarrhoea and enteritis <sup>2</sup> .                         | 119                               | 1926  | 2,451    | 1,867         | 4,318  | 2,045                             | 1,654         | 1,855  | 18.2                                                        |
|                                                                |                                   | 1931  | 2,356    | 1,648         | 4,004  | 1,906                             | 1,410         | 1,665  | 19.7                                                        |
|                                                                |                                   | 1932  | 1,637    | 1,205         | 2,842  | 1,352                             | 1,052         | 1,206  | 16.5                                                        |
|                                                                |                                   | 1933  | 1,451    | 1,025         | 2,476  | 1,208                             | 945           | 1,111  | 15.2                                                        |
| Hernia, intestinal ob-<br>struction.....                       | 122                               | 1926  | 68       | 39            | 107    | 57                                | 35            | 46     | 0.5                                                         |
|                                                                |                                   | 1931  | 42       | 27            | 69     | 34                                | 23            | 29     | 0.3                                                         |
|                                                                |                                   | 1932  | 38       | 21            | 59     | 31                                | 18            | 25     | 0.3                                                         |
|                                                                |                                   | 1933  | 44       | 25            | 69     | 38                                | 23            | 31     | 0.4                                                         |
| Congenital malforma-<br>tions.....                             | 157                               | 1926  | 777      | 635           | 1,412  | 648                               | 563           | 607    | 6.0                                                         |
|                                                                |                                   | 1931  | 737      | 580           | 1,317  | 596                               | 496           | 548    | 6.5                                                         |
|                                                                |                                   | 1932  | 693      | 532           | 1,225  | 572                               | 464           | 520    | 7.1                                                         |
|                                                                |                                   | 1933  | 682      | 584           | 1,266  | 596                               | 538           | 568    | 7.8                                                         |
| Congenital debility.....                                       | 158                               | 1926  | 1,353    | 1,000         | 2,353  | 1,129                             | 886           | 1,011  | 9.9                                                         |
|                                                                |                                   | 1931  | 1,059    | 840           | 1,899  | 857                               | 719           | 790    | 9.3                                                         |
|                                                                |                                   | 1932  | 918      | 655           | 1,573  | 758                               | 572           | 667    | 9.1                                                         |
|                                                                |                                   | 1933  | 871      | 570           | 1,441  | 761                               | 525           | 647    | 8.8                                                         |
| Premature birth.....                                           | 159                               | 1926  | 2,936    | 2,147         | 5,083  | 2,449                             | 1,902         | 2,184  | 21.5                                                        |
|                                                                |                                   | 1931  | 2,463    | 1,862         | 4,325  | 1,992                             | 1,593         | 1,799  | 21.2                                                        |
|                                                                |                                   | 1932  | 2,242    | 1,716         | 3,958  | 1,852                             | 1,498         | 1,679  | 22.9                                                        |
|                                                                |                                   | 1933  | 2,076    | 1,532         | 3,608  | 1,815                             | 1,412         | 1,619  | 22.2                                                        |
| Injury at birth.....                                           | 160                               | 1926  | 563      | 386           | 949    | 470                               | 342           | 408    | 4.0                                                         |
|                                                                |                                   | 1931  | 792      | 442           | 1,234  | 641                               | 378           | 513    | 6.1                                                         |
|                                                                |                                   | 1932  | 669      | 408           | 1,077  | 553                               | 356           | 457    | 6.2                                                         |
|                                                                |                                   | 1933  | 579      | 370           | 949    | 506                               | 341           | 426    | 5.8                                                         |
| Other diseases peculiar<br>to early infancy <sup>2</sup> ..... | 161                               | 1926  | 885      | 622           | 1,507  | 738                               | 551           | 647    | 6.4                                                         |
|                                                                |                                   | 1931  | 881      | 680           | 1,561  | 713                               | 582           | 649    | 7.7                                                         |
|                                                                |                                   | 1932  | 763      | 561           | 1,324  | 630                               | 490           | 562    | 7.7                                                         |
|                                                                |                                   | 1933  | 799      | 540           | 1,339  | 698                               | 498           | 601    | 8.2                                                         |
| Other specified causes <sup>2</sup> ..                         | —                                 | 1926  | 1,081    | 779           | 1,860  | 902                               | 690           | 799    | 7.9                                                         |
|                                                                |                                   | 1931  | 722      | 546           | 1,268  | 584                               | 467           | 527    | 6.2                                                         |
|                                                                |                                   | 1932  | 626      | 487           | 1,113  | 517                               | 425           | 472    | 6.4                                                         |
|                                                                |                                   | 1933  | 658      | 495           | 1,153  | 575                               | 456           | 517    | 7.1                                                         |
| Ill-defined causes.....                                        | 199, 200                          | 1926  | 103      | 55            | 158    | 86                                | 49            | 68     | 0.7                                                         |
|                                                                |                                   | 1931  | 84       | 69            | 153    | 68                                | 59            | 64     | 0.8                                                         |
|                                                                |                                   | 1932  | 61       | 53            | 119    | 50                                | 51            | 50     | 0.7                                                         |
|                                                                |                                   | 1933  | 103      | 80            | 180    | 87                                | 74            | 81     | 1.1                                                         |
| All causes.....                                                | —                                 | 1926  | 13,537   | 10,155        | 23,692 | 11,294                            | 8,996         | 10,179 | 100.0                                                       |
|                                                                |                                   | 1931  | 11,667   | 8,693         | 20,360 | 9,438                             | 7,439         | 8,467  | 100.0                                                       |
|                                                                |                                   | 1932  | 9,867    | 7,396         | 17,263 | 8,149                             | 6,455         | 7,325  | 100.0                                                       |
|                                                                |                                   | 1933  | 9,340    | 6,944         | 16,284 | 8,165                             | 6,401         | 7,307  | 100.0                                                       |

<sup>1</sup> Less than one-tenth of one per cent.

<sup>2</sup> For these causes the comparability between the figures for the year 1926 and those for the years 1931-33 is not exact, owing to changes in classification.

### 30.—Proportion per 1,000 Deaths of Infants Under 1 Year of Age Occurring at each Age Period, 1931-32.

| Age at Death.                      | P.E.I.        | N.S.          | N.B.          | Que.          | Ont.          | Man.          | Sask.         | Alta.         | B.C.          | Canada.       |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 1931.                              |               |               |               |               |               |               |               |               |               |               |
| Under 1 month.....                 | 414.1         | 512.0         | 480.9         | 437.4         | 534.9         | 553.0         | 527.0         | 540.5         | 540.9         | 486.1         |
| Under 1 day.....                   | 93.8          | 183.8         | 165.3         | 152.7         | 215.6         | 208.9         | 211.9         | 208.0         | 241.2         | 181.5         |
| 1 day and under 1 week.....        | 179.7         | 179.4         | 183.3         | 139.5         | 180.8         | 189.4         | 157.9         | 149.5         | 198.4         | 159.0         |
| 1 week and under 2 weeks.....      | 46.9          | 66.7          | 55.1          | 62.0          | 58.6          | 61.7          | 67.0          | 76.0          | 44.7          | 61.7          |
| 2 weeks and under 3 weeks.....     | 54.7          | 32.8          | 39.2          | 45.6          | 40.1          | 40.0          | 53.3          | 67.7          | 29.2          | 44.7          |
| 3 weeks and under 1 month.....     | 39.1          | 49.2          | 38.1          | 37.6          | 39.7          | 53.0          | 36.9          | 39.3          | 27.2          | 39.1          |
| 1 month and under 2 months.....    | 101.6         | 82.1          | 83.7          | 103.3         | 77.2          | 84.4          | 101.2         | 96.1          | 68.1          | 92.9          |
| 2 months and under 3 months.....   | 117.2         | 76.6          | 92.2          | 98.7          | 66.0          | 67.1          | 77.9          | 75.2          | 72.0          | 84.8          |
| 3 months and under 4 months.....   | 85.9          | 76.6          | 64.6          | 66.9          | 54.0          | 68.2          | 58.8          | 66.0          | 60.3          | 63.6          |
| 4 months and under 5 months.....   | 46.9          | 50.3          | 49.8          | 56.7          | 47.2          | 49.8          | 49.2          | 51.0          | 44.7          | 52.3          |
| 5 months and under 6 months.....   | 62.5          | 31.7          | 57.2          | 51.4          | 47.2          | 41.1          | 36.2          | 30.1          | 38.9          | 46.7          |
| 6 months and under 7 months.....   | 54.7          | 38.3          | 32.8          | 44.4          | 39.7          | 27.1          | 28.0          | 35.9          | 37.0          | 39.9          |
| 7 months and under 8 months.....   | 23.4          | 36.1          | 35.0          | 32.0          | 36.8          | 30.3          | 38.3          | 35.1          | 33.1          | 34.4          |
| 8 months and under 9 months.....   | 46.9          | 29.5          | 36.0          | 32.3          | 28.1          | 19.5          | 21.2          | 21.7          | 31.1          | 29.4          |
| 9 months and under 10 months.....  | 7.8           | 25.2          | 26.5          | 28.9          | 25.9          | 28.1          | 26.7          | 19.2          | 25.3          | 26.9          |
| 10 months and under 11 months..... | 31.3          | 25.2          | 21.2          | 23.1          | 21.5          | 16.2          | 18.5          | 16.7          | 31.1          | 23.3          |
| 11 months and under 1 year.....    | 7.8           | 16.4          | 20.1          | 21.2          | 21.5          | 15.2          | 17.1          | 12.5          | 17.5          | 19.7          |
| <b>Totals.....</b>                 | <b>1000.0</b> | <b>1000.0</b> | <b>1000.0</b> | <b>1000.0</b> | <b>1000.0</b> | <b>1000.0</b> | <b>1000.0</b> | <b>1000.0</b> | <b>1000.0</b> | <b>1000.0</b> |
| 1932.                              |               |               |               |               |               |               |               |               |               |               |
| Under 1 month.....                 | 462.1         | 518.3         | 506.5         | 460.6         | 575.9         | 534.7         | 570.0         | 548.6         | 540.9         | 512.4         |
| Under 1 day.....                   | 189.4         | 176.7         | 209.3         | 140.4         | 229.4         | 220.1         | 262.7         | 222.7         | 211.7         | 186.9         |
| 1 day and under 1 week.....        | 98.5          | 188.5         | 192.5         | 155.0         | 214.1         | 177.0         | 174.9         | 182.5         | 222.2         | 178.1         |
| 1 week and under 2 weeks.....      | 121.2         | 78.9          | 87.5          | 67.9          | 57.6          | 57.4          | 62.1          | 58.2          | 56.6          | 63.2          |
| 2 weeks and under 3 weeks.....     | 22.7          | 38.9          | 36.2          | 50.7          | 40.4          | 44.3          | 36.3          | 45.1          | 23.1          | 44.3          |
| 3 weeks and under 1 month.....     | 30.3          | 35.3          | 31.0          | 46.6          | 34.4          | 35.9          | 34.1          | 40.1          | 27.3          | 39.9          |
| 1 month and under 2 months.....    | 128.8         | 97.8          | 82.7          | 102.8         | 79.4          | 94.5          | 86.3          | 72.2          | 83.9          | 92.3          |
| 2 months and under 3 months.....   | 83.3          | 84.8          | 93.0          | 101.2         | 66.5          | 77.8          | 63.6          | 88.3          | 67.1          | 85.9          |
| 3 months and under 4 months.....   | 53.0          | 57.7          | 67.2          | 62.2          | 50.6          | 58.6          | 54.5          | 53.2          | 48.2          | 57.7          |
| 4 months and under 5 months.....   | 53.0          | 57.7          | 50.4          | 50.0          | 40.4          | 46.7          | 53.7          | 57.2          | 46.1          | 48.3          |
| 5 months and under 6 months.....   | 60.6          | 34.2          | 45.2          | 47.8          | 40.2          | 44.3          | 36.3          | 45.1          | 27.3          | 43.5          |
| 6 months and under 7 months.....   | 53.0          | 33.0          | 24.5          | 39.5          | 37.0          | 37.1          | 32.6          | 25.1          | 41.9          | 36.6          |
| 7 months and under 8 months.....   | 37.9          | 24.2          | 28.4          | 34.2          | 24.7          | 28.7          | 25.0          | 19.1          | 39.8          | 30.0          |
| 8 months and under 9 months.....   | 15.2          | 38.9          | 20.7          | 31.0          | 28.6          | 22.7          | 22.7          | 26.1          | 23.1          | 28.7          |
| 9 months and under 10 months.....  | 15.2          | 17.7          | 33.6          | 28.7          | 22.0          | 21.5          | 22.7          | 21.1          | 27.3          | 25.4          |
| 10 months and under 11 months..... | 15.2          | 8.2           | 24.5          | 22.7          | 16.7          | 20.3          | 18.2          | 22.1          | 27.3          | 20.2          |
| 11 months and under 1 year.....    | 22.7          | 17.7          | 23.3          | 19.2          | 19.1          | 13.2          | 14.4          | 22.1          | 27.3          | 19.1          |
| <b>Totals.....</b>                 | <b>1000.0</b> | <b>1000.0</b> | <b>1000.0</b> | <b>1000.0</b> | <b>1000.0</b> | <b>1000.0</b> | <b>1000.0</b> | <b>1000.0</b> | <b>1000.0</b> | <b>1000.0</b> |

**Infantile Mortality in Canadian Cities and Towns.**—Table 31 shows for the cities and towns of 10,000 population and over, the numbers of infant deaths and the death rates per 1,000 live births for the years 1930-33. In the latest year Woodstock, Ont., had the lowest infant death rate, namely, 28.5.

But a very low rate for any particular year means little since wide fluctuations from year to year are the rule. As a matter of fact, Vancouver, B.C., has a finer record over the four years shown than any other place listed, and Victoria, B.C., comes a close second. Three Rivers, Sorel, Chicoutimi, Quebec City, Hull, Timmins, Joliette, Shawinigan Falls, Lévis and Thetford Mines have all rates of over 100 for 1933 and most of them have high rates over the four-year period. Among the large cities, Montreal has recorded a very steady improvement. Apart from Vancouver, already mentioned, Winnipeg and Toronto have very low rates.



31.—Deaths and Death Rates of Children Under One Year of Age (Exclusive of Still-births) in Cities and Towns of 10,000 and Over, 1930-33.

| City or Town.                | Infant Deaths. |       |       |       | Rates per 1000 Live Births. |       |       |       |
|------------------------------|----------------|-------|-------|-------|-----------------------------|-------|-------|-------|
|                              | 1930.          | 1931. | 1932. | 1933. | 1930.                       | 1931. | 1932. | 1933. |
| Belleville, Ont.             | 27             | 23    | 18    | 19    | 68.4                        | 54.2  | 49.3  | 54.4  |
| Brandon, Man.                | 20             | 22    | 23    | 16    | 53.5                        | 59.6  | 73.2  | 53.9  |
| Brantford, Ont.              | 74             | 39    | 32    | 40    | 101.1                       | 56.9  | 49.9  | 63.5  |
| Calgary, Alta.               | 125            | 83    | 85    | 64    | 60.6                        | 43.5  | 49.2  | 39.4  |
| Charlottetown, P.E.I.        | 33             | 25    | 30    | 23    | 98.2                        | 67.4  | 77.3  | 68.2  |
| Chatham, Ont.                | 47             | 40    | 32    | 31    | 83.2                        | 87.7  | 69.4  | 66.2  |
| Chicoutimi, Que.             | 57             | 49    | 66    | 69    | 114.5                       | 100.0 | 118.3 | 138.3 |
| Cornwall, Ont.               | 39             | 46    | 35    | 25    | 80.9                        | 100.0 | 77.4  | 53.8  |
| East Windsor, Ont.           | 22             | 15    | 13    | 9     | 59.1                        | 49.7  | 45.3  | 30.4  |
| Edmonton, Alta.              | 136            | 146   | 113   | 111   | 56.9                        | 60.8  | 48.7  | 53.2  |
| Fort William, Ont.           | 36             | 50    | 36    | 25    | 57.8                        | 76.1  | 60.7  | 46.7  |
| Galt, Ont.                   | 22             | 14    | 12    | 17    | 70.7                        | 43.6  | 38.8  | 60.3  |
| Glace Bay, N.S.              | 96             | 67    | 80    | 48    | 128.9                       | 96.7  | 110.5 | 79.7  |
| Granby, Que.                 | 32             | 35    | 30    | 14    | 94.7                        | 90.2  | 79.4  | 40.2  |
| Guelph, Ont.                 | 23             | 29    | 20    | 20    | 56.2                        | 79.9  | 54.6  | 56.2  |
| Halifax, N.S.                | 119            | 134   | 126   | 113   | 76.5                        | 81.2  | 77.8  | 71.0  |
| Hamilton, Ont.               | 187            | 196   | 192   | 163   | 55.1                        | 59.0  | 61.7  | 56.9  |
| Hull, Que.                   | 111            | 126   | 121   | 104   | 108.9                       | 127.9 | 138.4 | 122.1 |
| Joliette, Que.               | 43             | 45    | 26    | 40    | 129.5                       | 131.2 | 73.9  | 119.8 |
| Kingston, Ont.               | 66             | 46    | 48    | 31    | 100.2                       | 71.3  | 72.9  | 45.3  |
| Kitchener, Ont.              | 41             | 40    | 33    | 31    | 49.5                        | 47.0  | 45.3  | 44.7  |
| Lachine, Que.                | 36             | 44    | 35    | 24    | 86.3                        | 89.6  | 85.2  | 64.3  |
| Lethbridge, Alta.            | 37             | 49    | 34    | 33    | 63.7                        | 85.7  | 64.6  | 63.8  |
| Lévis, Que.                  | 29             | 41    | 22    | 28    | 93.9                        | 143.9 | 77.7  | 111.1 |
| London, Ont.                 | 102            | 75    | 92    | 82    | 68.7                        | 51.7  | 65.9  | 64.0  |
| Medicine Hat, Alta.          | 15             | 23    | 16    | 18    | 32.5                        | 57.4  | 44.7  | 56.3  |
| Moncton, N.B.                | 40             | 25    | 27    | 28    | 76.2                        | 44.9  | 52.8  | 60.5  |
| Montreal, Que.               | 2,635          | 2,348 | 1,976 | 1,801 | 125.2                       | 114.1 | 100.1 | 97.6  |
| Moose Jaw, Sask.             | 40             | 37    | 27    | 24    | 67.1                        | 72.3  | 54.9  | 51.8  |
| New Westminster, B.C.        | 31             | 23    | 27    | 19    | 55.9                        | 39.1  | 47.8  | 35.5  |
| Niagara Falls, Ont.          | 28             | 26    | 16    | 19    | 63.9                        | 56.2  | 39.8  | 47.7  |
| North Bay, Ont.              | 47             | 28    | 28    | 19    | 112.7                       | 68.6  | 70.4  | 49.1  |
| Oshawa, Ont.                 | 66             | 49    | 21    | 21    | 96.2                        | 80.7  | 40.7  | 44.8  |
| Ottawa, Ont.                 | 331            | 297   | 245   | 257   | 109.3                       | 97.5  | 80.9  | 89.5  |
| Outremont, Que.              | 11             | 2     | 5     | 9     | 89.4                        | 20.2  | 43.5  | 95.7  |
| Owen Sound, Ont.             | 14             | 21    | 18    | 17    | 44.7                        | 62.1  | 60.8  | 53.8  |
| Peterborough, Ont.           | 47             | 39    | 49    | 27    | 73.6                        | 63.7  | 82.8  | 47.6  |
| Port Arthur, Ont.            | 40             | 33    | 23    | 22    | 70.9                        | 65.5  | 43.1  | 42.5  |
| Quebec, Que.                 | 819            | 663   | 580   | 558   | 183.9                       | 148.6 | 135.4 | 137.8 |
| Regina, Sask.                | 104            | 71    | 60    | 63    | 62.5                        | 47.0  | 47.5  | 53.7  |
| St. Boniface, Man.           | 66             | 62    | 52    | 41    | 67.3                        | 61.1  | 45.3  | 39.9  |
| St. Catharines, Ont.         | 42             | 27    | 29    | 32    | 62.6                        | 43.1  | 49.1  | 55.8  |
| St. Hyacinthe, Que.          | 72             | 65    | 45    | 33    | 191.5                       | 175.2 | 124.0 | 97.3  |
| St. Jean, Que.               | 24             | 28    | 21    | 14    | 73.6                        | 88.6  | 67.7  | 50.4  |
| Saint John, N.B.             | 109            | 111   | 89    | 105   | 89.1                        | 91.3  | 68.6  | 93.2  |
| St. Thomas, Ont.             | 27             | 22    | 10    | 15    | 83.9                        | 73.3  | 33.3  | 58.1  |
| Sandwich, Ont.               | 12             | 7     | 5     | 8     | 61.2                        | 41.7  | 37.9  | 53.7  |
| Sarnia, Ont.                 | 22             | 28    | 17    | 22    | 48.9                        | 60.3  | 42.7  | 58.2  |
| Saskatoon, Sask.             | 79             | 52    | 70    | 43    | 64.0                        | 45.5  | 69.4  | 48.2  |
| Sault Ste. Marie, Ont.       | 51             | 26    | 32    | 22    | 79.4                        | 40.9  | 49.4  | 39.0  |
| Shawinigan Falls, Que.       | 82             | 72    | 53    | 62    | 125.6                       | 115.2 | 84.9  | 110.9 |
| Sherbrooke, Que.             | 84             | 89    | 62    | 38    | 101.0                       | 111.4 | 80.6  | 52.1  |
| Sorel, Que.                  | 62             | 44    | 31    | 42    | 204.6                       | 139.7 | 111.1 | 170.7 |
| Stratford, Ont.              | 17             | 28    | 22    | 10    | 41.9                        | 71.4  | 66.7  | 32.6  |
| Sudbury, Ont.                | 69             | 82    | 78    | 71    | 95.8                        | 98.8  | 98.0  | 99.0  |
| Sydney, N.S.                 | 41             | 16    | 26    | 37    | 66.7                        | 24.9  | 43.3  | 72.3  |
| Theftford Mines, Que.        | 65             | 36    | 28    | 31    | 122.4                       | 86.1  | 74.5  | 101.6 |
| Three Rivers, Que.           | 232            | 229   | 165   | 207   | 171.9                       | 172.6 | 125.8 | 197.1 |
| Timmins, Ont.                | 53             | 61    | 47    | 66    | 104.7                       | 114.9 | 90.6  | 121.1 |
| Toronto, Ont.                | 1,022          | 887   | 751   | 673   | 75.2                        | 69.8  | 62.1  | 59.6  |
| Valleyfield, Que.            | 38             | 31    | 39    | 27    | 111.8                       | 88.1  | 100.8 | 82.8  |
| Vancouver, B.C. <sup>1</sup> | 153            | 157   | 146   | 107   | 38.2                        | 42.1  | 42.3  | 33.6  |
| Verdun, Que.                 | 81             | 95    | 77    | 53    | 71.7                        | 81.8  | 66.0  | 52.8  |
| Victoria, B.C.               | 37             | 19    | 20    | 35    | 50.4                        | 27.6  | 28.6  | 51.9  |
| Walkerville, Ont.            | 36             | 32    | 26    | 27    | 54.5                        | 49.8  | 56.6  | 68.5  |
| Welland, Ont.                | 19             | 25    | 20    | 20    | 63.8                        | 82.5  | 72.7  | 68.7  |
| Westmount, Que.              | 44             | 39    | 39    | 20    | 120.5                       | 109.6 | 120.0 | 65.6  |
| Windsor, Ont.                | 111            | 88    | 67    | 53    | 73.5                        | 70.9  | 51.9  | 48.8  |
| Winnipeg, Man.               | 269            | 214   | 178   | 149   | 58.1                        | 43.1  | 43.6  | 39.4  |
| Woodstock, Ont.              | 15             | 10    | 23    | 7     | 55.1                        | 38.6  | 95.0  | 28.5  |

<sup>1</sup> Includes Point Grey and South Vancouver.

**Infantile Mortality in Various Countries.**—The rate of infantile mortality to live births has been greatly reduced in civilized countries by the recent advances in medical science and in sanitation. The low record is held at the present time by New Zealand, where in 1932 the rate of infantile mortality was only 31.2 per 1,000 live births as compared with 68 in 1905. The Netherlands, Norway, Switzerland and Sweden with rates of 46.3, 46.8, 51.0 and 51.2 in the latest available years, (1932) are the lowest among European countries.

As showing the improvement in recent years, it may be stated that the rate of infantile mortality in England and Wales has been reduced from 128 per 1,000 live births in 1905 to 65.0 in 1932 while the rate in Germany has declined from 196 in 1904 to 79.2 in 1932. In the Netherlands, again, the rate has declined from 131 per 1,000 live births in 1905 to 46.3 in 1932. Statistics are given in Table 32 by leading countries and by provinces.

**32.—Infantile Mortality per 1,000 Live Births in Various Countries of the World and Provinces of Canada in Recent Years.**

| Country or Province.                | Year.       | Rate of Infantile Mortality. | Country or Province.     | Year. | Rate of Infantile Mortality. |
|-------------------------------------|-------------|------------------------------|--------------------------|-------|------------------------------|
| New Zealand.....                    | 1932        | 31.2                         | New Brunswick.....       | 1933  | 81.8                         |
| South Australia.....                | 1932        | 36.6                         | Northern Ireland.....    | 1932  | 83.0                         |
| Queensland.....                     | 1932        | 40.2                         | Prussia.....             | 1931  | 83.8                         |
| New South Wales.....                | 1932        | 41.0                         | Scotland.....            | 1932  | 86.2                         |
| Tasmania.....                       | 1932        | 41.2                         | Panama.....              | 1931  | 86.3                         |
| Australia.....                      | 1932        | 41.3                         | Latvia.....              | 1932  | 89.3                         |
| Victoria.....                       | 1932        | 43.0                         | Belgium.....             | 1932  | 93.6                         |
| Western Australia.....              | 1932        | 44.6                         | Quebec.....              | 1933  | 94.5                         |
| Iceland.....                        | 1932        | 45.0                         | Estonia.....             | 1932  | 96.8                         |
| British Columbia.....               | 1933        | 45.8                         | Uruguay.....             | 1930  | 99.7                         |
| Netherlands.....                    | 1932        | 46.3                         | Austria.....             | 1932  | 106.2                        |
| Norway.....                         | 1932        | 46.8                         | Italy.....               | 1932  | 110.5                        |
| Switzerland.....                    | 1932        | 51.0                         | Spain.....               | 1930  | 117.1                        |
| Sweden.....                         | 1932        | 51.2                         | Japan.....               | 1932  | 117.5                        |
| United States (Reg. Area).....      | 1932        | 57.6                         | Newfoundland.....        | 1932  | 119.7                        |
| Ontario.....                        | 1933        | 59.8                         | Salvador.....            | 1932  | 132.9                        |
| Alberta.....                        | 1933        | 59.9                         | Greece.....              | 1931  | 133.8                        |
| Prince Edward Island.....           | 1933        | 60.6                         | Czechoslovakia.....      | 1930  | 137.5                        |
| Saskatchewan.....                   | 1933        | 61.1                         | Jamaica.....             | 1932  | 140.0                        |
| Manitoba.....                       | 1933        | 63.4                         | Ukraine.....             | 1929  | 150.4                        |
| England and Wales.....              | 1932        | 65.0                         | Costa Rica.....          | 1932  | 155.6                        |
| Union of South Africa (Whites)..... | 1932        | 68.6                         | Bulgaria.....            | 1931  | 156.2                        |
| British Isles.....                  | 1932        | 68.6                         | Egypt.....               | 1931  | 160.0                        |
| Finland.....                        | 1932        | 70.9                         | Ceylon.....              | 1932  | 162.3                        |
| Nova Scotia.....                    | 1933        | 70.9                         | Straits Settlements..... | 1932  | 166.4                        |
| Irish Free State.....               | 1932        | 72.2                         | British India.....       | 1932  | 168.7                        |
| <b>Canada.....</b>                  | <b>1933</b> | <b>73.1</b>                  | Hungary.....             | 1932  | 183.7                        |
| France.....                         | 1932        | 76.4                         | Roumania.....            | 1932  | 184.6                        |
| Germany.....                        | 1932        | 79.2                         | Russia.....              | 1929  | 205.6                        |
| Denmark.....                        | 1931        | 81.4                         | Chile.....               | 1932  | 235.0                        |

**Infantile Mortality in Great Cities of the World.**—In former times cities were considered to be "the graveyards of population". Deaths, consequent upon the rapid spread of infectious diseases, were generally more numerous than births, and it was the prevailing opinion that cities would naturally come to an end if they were not being constantly reinforced by fresh young life from the prolific countryside. The unhealthiness of cities was especially destructive of infant life, and it is one of the greatest triumphs of our time that city life is in our day, if not as healthy, yet not necessarily more dangerous to human nor to infant life than the average living conditions in the country as a whole.

To give particular examples, the rate of infantile mortality in New York was 51 per 1,000 live births in 1932 as against a rate of 58 per 1,000 for the birth registration area of the United States. In the same year, London and Berlin had infant mortality rates of 67 per 1,000 live births, as compared with 69 for the British Isles and 79 for Germany. In Vienna a rate, according to latest statistics, of 79 compared with 106 for Austria. On the other hand, Paris had a rate of 85 in 1932 compared with a rate of 76 for France in the same year, the latest for which comparable statistics are available.

In Canada, Montreal had in 1932 an infantile mortality of 100 per 1,000 live births as compared with 94 for the province of Quebec. Toronto had, in 1932, an infantile mortality rate of 62 per 1,000 live births as against 62.1 for the province of Ontario, while Winnipeg and Vancouver had much lower infantile mortality rates than their respective provinces. Victoria had in 1932 the lowest rate shown in the table and over a number of years both Vancouver and Victoria have shown two of the lowest infantile mortality rates in the world.

**33.—Infantile Mortality per 1,000 Live Births in Great Cities of the World in 1932 or the Most Recent Year.**

| City.               | Year. | Rate of Infantile Mortality. | City.        | Year. | Rate of Infantile Mortality. |
|---------------------|-------|------------------------------|--------------|-------|------------------------------|
| Victoria, B.C.      | 1932  | 29                           | Verdun       | 1932  | 66                           |
| Auckland            | 1932  | 31                           | Berlin       | 1932  | 67                           |
| Amsterdam           | 1932  | 34                           | London, Eng. | 1932  | 67                           |
| Wellington          | 1932  | 34                           | Birmingham   | 1932  | 68                           |
| Adelaide            | 1932  | 39                           | Saint John   | 1932  | 69                           |
| Sydney, N.S.W.      | 1932  | 39                           | Saskatoon    | 1932  | 69                           |
| Stockholm           | 1932  | 41                           | Brandon      | 1932  | 73                           |
| Vancouver           | 1932  | 42                           | Edinburgh    | 1932  | 73                           |
| Winnipeg            | 1932  | 44                           | Sheffield    | 1932  | 73                           |
| Oslo                | 1932  | 45                           | Washington   | 1932  | 73                           |
| Hobart              | 1932  | 48                           | Munich       | 1932  | 75                           |
| Melbourne           | 1932  | 48                           | Antwerp      | 1932  | 76                           |
| Perth, W. Australia | 1932  | 48                           | Cologne      | 1932  | 76                           |
| Regina              | 1932  | 48                           | Halifax      | 1932  | 78                           |
| Calgary             | 1932  | 49                           | Vienna       | 1929  | 79                           |
| Chicago             | 1932  | 49                           | Ottawa       | 1932  | 81                           |
| Edmonton            | 1932  | 49                           | Leipzig      | 1932  | 83                           |
| Frankfort-on-Main   | 1932  | 49                           | Breslau      | 1932  | 84                           |
| Brisbane            | 1932  | 50                           | Paris        | 1932  | 85                           |
| New York            | 1932  | 51                           | Manchester   | 1932  | 86                           |
| Copenhagen          | 1932  | 52                           | Cork         | 1932  | 87                           |
| Windsor             | 1932  | 52                           | Johannesburg | 1932  | 88                           |
| Moncton             | 1932  | 53                           | Liverpool    | 1932  | 91                           |
| Hamilton            | 1932  | 62                           | Prague       | 1929  | 98                           |
| Toronto             | 1932  | 62                           | Montreal     | 1932  | 100                          |
| Hamburg             | 1932  | 64                           | Glasgow      | 1932  | 112                          |
| Cape Town           | 1932  | 65                           | Quebec       | 1932  | 135                          |
| Dresden             | 1932  | 66                           | Bombay       | 1932  | 218                          |
| London, Ont.        | 1932  | 66                           | Madras       | 1932  | 234                          |

The infant mortality in the cities of Canada has been greatly reduced in the years since the inauguration of Dominion vital statistics. Thus the rate for Toronto has fallen from 90 in 1921 to 60 in 1933, that for Winnipeg from 78 to 39, for Vancouver from 56 to 34, for Hamilton from 88 to 57, for Ottawa from 130 to 89, for London from 92 to 64, for Edmonton from 89 to 53, for Halifax from 135 to 71, for Saint John from 147 to 93. Altogether, in the 13 cities of 40,000 population and over in the former registration area of Canada, there were 41,923 live births in 1921 and 3,833 infant deaths, being a rate of 91 per 1,000 live births. In 1933 in these same cities there were 34,856 live births but only 1,983 infant deaths, or a rate of 57 per 1,000 live births.





**35.—Maternal Deaths in each Province by Age Groups, 1932 and 1933, with Totals and Rates per 1,000 Live Births for 1931-33, and Five-Year Averages for 1921-25 and 1926-30—concluded.**

| Year and Age Group.                 | P.E.I.    | N.S.      | N.B.      | Que.       | Ont.       | Man.      | Sask.      | Alta.     | B.C.      | Canada. <sup>1</sup> |
|-------------------------------------|-----------|-----------|-----------|------------|------------|-----------|------------|-----------|-----------|----------------------|
| <b>1932.</b>                        |           |           |           |            |            |           |            |           |           |                      |
| Under 20 years.....                 | —         | 7         | 7         | 11         | 27         | 5         | 2          | 5         | 2         | 66                   |
| 20-24 ".....                        | 2         | 10        | 17        | 62         | 56         | 11        | 21         | 14        | 9         | 202                  |
| 25-29 ".....                        | —         | 12        | 8         | 79         | 80         | 18        | 20         | 11        | 16        | 244                  |
| 30-39 ".....                        | 10        | 17        | 24        | 208        | 143        | 28        | 40         | 27        | 20        | 517                  |
| 40 years and over.....              | 1         | 7         | 7         | 61         | 37         | 6         | 19         | 7         | 7         | 152                  |
| Age not stated.....                 | —         | —         | —         | —          | —          | —         | —          | —         | —         | —                    |
| <b>Totals, 1933.....</b>            | <b>8</b>  | <b>52</b> | <b>60</b> | <b>381</b> | <b>346</b> | <b>54</b> | <b>92</b>  | <b>73</b> | <b>45</b> | <b>1,111</b>         |
| <b>Totals, 1932.....</b>            | <b>13</b> | <b>53</b> | <b>63</b> | <b>421</b> | <b>343</b> | <b>68</b> | <b>102</b> | <b>64</b> | <b>54</b> | <b>1,181</b>         |
| <b>Totals, 1931.....</b>            | <b>13</b> | <b>55</b> | <b>60</b> | <b>400</b> | <b>372</b> | <b>69</b> | <b>93</b>  | <b>87</b> | <b>66</b> | <b>1,215</b>         |
| Averages, 1926-30.....              | 8         | 61        | 64        | 433        | 398        | 81        | 126        | 105       | 63        | 1,339                |
| Averages, 1921-25.....              | 9         | 70        | 51        | 386        | 386        | 87        | 127        | 97        | 61        | 1,339                |
| Rates per 1,000 living births, 1933 | 4.1       | 4.7       | 6.0       | 5.0        | 5.4        | 4.1       | 4.6        | 4.5       | 4.7       | 5.0                  |
| Rates per 1,000 living births, 1932 | 6.4       | 4.6       | 5.8       | 5.1        | 5.1        | 4.8       | 4.9        | 3.8       | 5.3       | 5.0                  |
| Rates per 1,000 living births, 1931 | 6.9       | 4.7       | 5.6       | 4.8        | 5.4        | 4.8       | 4.4        | 5.0       | 6.3       | 5.1                  |
| Averages, 1926-30.....              | 4.6       | 5.5       | 6.2       | 5.2        | 5.8        | 5.6       | 5.9        | 6.6       | 6.1       | 5.7                  |
| Averages, 1921-25.....              | 4.6       | 5.8       | 4.6       | 5.4        | 5.4        | 5.2       | 5.9        | 6.3       | 5.9       | 5.7                  |

<sup>1</sup>Yukon and Northwest Territories are not included. <sup>2</sup>Quebec was not included in the registration area prior to 1926.

**36.—Maternal Deaths in each Province, by Causes of Death, 1932.**

NOTE.—For totals 1926-30 see Table 35, p. 183 of the Canada Year Book, 1933.

| Cause of Death.                                                                           | P.E.I.    | N.S.      | N.B.      | Que.       | Ont.       | Man.      | Sask.      | Alta.     | B.C.      | Canada.      |
|-------------------------------------------------------------------------------------------|-----------|-----------|-----------|------------|------------|-----------|------------|-----------|-----------|--------------|
| Abortion with septic conditions...                                                        | —         | 1         | 5         | 36         | 35         | 10        | 17         | 11        | 9         | 124          |
| (a) Abortion.....                                                                         | —         | 1         | 4         | 34         | 28         | 9         | 14         | 10        | 7         | 107          |
| (b) Self-induced abortion.....                                                            | —         | —         | 1         | 2          | 7          | 1         | 3          | 1         | 2         | 17           |
| Abortion without mention of septic conditions (hemorrhage included).....                  | —         | —         | 1         | 10         | 8          | 2         | 4          | 2         | 1         | 28           |
| (a) Abortion.....                                                                         | —         | —         | 1         | 9          | 7          | 2         | 4          | 2         | 1         | 26           |
| (b) Self-induced abortion.....                                                            | —         | —         | —         | 1          | 1          | —         | —          | —         | —         | 2            |
| Ectopic gestation.....                                                                    | —         | 2         | 2         | 10         | 17         | 2         | 4          | 1         | 3         | 41           |
| (a) With septic conditions.....                                                           | —         | 1         | —         | 2          | 3          | —         | —          | 1         | —         | 7            |
| (b) Without mention of septic conditions.....                                             | —         | 1         | 2         | 8          | 14         | 2         | 4          | —         | 3         | 34           |
| Other accidents of pregnancy (hemorrhage excluded).....                                   | —         | —         | 1         | 3          | 6          | —         | —          | 2         | 1         | 13           |
| Puerperal hemorrhage.....                                                                 | 2         | 3         | 13        | 75         | 51         | 7         | 20         | 7         | 9         | 187          |
| (a) Placenta prævia.....                                                                  | —         | 1         | 7         | 35         | 26         | 5         | 11         | 3         | 5         | 93           |
| (b) Other hemorrhage.....                                                                 | 2         | 2         | 6         | 40         | 25         | 2         | 9          | 4         | 4         | 94           |
| Puerperal septicæmia (not specified as consequent upon abortion).....                     | 6         | 12        | 12        | 134        | 56         | 19        | 18         | 18        | 7         | 282          |
| (a) Puerperal septicæmia or pyæmia.....                                                   | 6         | 12        | 12        | 134        | 56         | 19        | 18         | 18        | 7         | 282          |
| (b) Puerperal tetanus.....                                                                | —         | —         | —         | —          | —          | —         | —          | —         | —         | —            |
| Puerperal albuminuria and eclampsia.....                                                  | 4         | 19        | 16        | 68         | 71         | 7         | 14         | 13        | 7         | 219          |
| Other toxæmias of pregnancy.....                                                          | —         | 3         | 2         | 11         | 16         | —         | 2          | 3         | —         | 37           |
| Puerperal phlegmasia alba dolens, embolism or sudden death (not specified as septic)..... | 1         | 5         | 6         | 30         | 41         | 6         | 11         | 4         | 8         | 112          |
| (a) Phlegmasia alba dolens and thrombosis.....                                            | —         | 1         | 1         | 7          | 6          | 2         | 3          | 1         | —         | 21           |
| (b) Embolism.....                                                                         | 1         | 2         | 4         | 10         | 32         | 2         | 6          | 3         | 6         | 66           |
| (c) Sudden death.....                                                                     | —         | 2         | 1         | 13         | 3          | 2         | 2          | —         | 2         | 25           |
| Other accidents of childbirth.....                                                        | —         | 5         | 4         | 44         | 37         | 14        | 10         | 3         | 7         | 124          |
| (a) Cæsarean section.....                                                                 | —         | 2         | —         | 8          | 18         | 1         | 2          | 1         | 2         | 34           |
| (b) Dystocia.....                                                                         | —         | 1         | —         | 19         | 4          | 7         | 3          | —         | 1         | 35           |
| (c) Instrumental delivery.....                                                            | —         | —         | 1         | —          | 4          | 1         | 2          | 2         | —         | 10           |
| (d) Rupture of uterus in parturition.....                                                 | —         | 1         | —         | —          | 4          | —         | —          | —         | —         | 5            |
| (e) Other accidents of labour.....                                                        | —         | 1         | 3         | 17         | 7          | 5         | 3          | —         | 4         | 40           |
| Other or not specified conditions of the puerperal state.....                             | —         | 3         | 1         | —          | 5          | 1         | 2          | —         | 2         | 14           |
| (a) Puerperal diseases of the breast.....                                                 | —         | —         | —         | —          | 1          | —         | —          | —         | —         | 1            |
| (b) Others under this title.....                                                          | —         | 3         | 1         | —          | 4          | 1         | 2          | —         | 2         | 13           |
| <b>Totals.....</b>                                                                        | <b>13</b> | <b>53</b> | <b>63</b> | <b>421</b> | <b>343</b> | <b>68</b> | <b>102</b> | <b>64</b> | <b>54</b> | <b>1,181</b> |

## 36A.—Maternal Deaths in each Province, by Causes of Death, 1933.

| Cause of Death.                                                                           | P.E.I.   | N.S.      | N.B.      | Que.       | Ont.       | Man.      | Sask.     | Alta.     | B.C.      | Canada.      |
|-------------------------------------------------------------------------------------------|----------|-----------|-----------|------------|------------|-----------|-----------|-----------|-----------|--------------|
| Abortion with septic conditions...                                                        | 1        | 10        | 3         | 29         | 45         | 3         | 10        | 16        | 7         | 124          |
| (a) Abortion.....                                                                         | 1        | 10        | 1         | 28         | 32         | 2         | 8         | 12        | 5         | 99           |
| (b) Self-induced abortion.....                                                            | —        | —         | 2         | 1          | 13         | 1         | 2         | 4         | 2         | 25           |
| Abortion without mention of septic conditions (hæmorrhage included).....                  | 1        | —         | 3         | 8          | 7          | 2         | 3         | 1         | 1         | 26           |
| (a) Abortion.....                                                                         | 1        | —         | 3         | 7          | 4          | 1         | 1         | 1         | 1         | 19           |
| (b) Self-induced abortion.....                                                            | —        | —         | —         | 1          | 3          | —         | 2         | —         | —         | 7            |
| Ectopic gestation.....                                                                    | —        | 3         | 3         | 12         | 13         | 2         | 3         | 1         | —         | 37           |
| (a) With septic conditions.....                                                           | —        | —         | 1         | 4          | 2          | 1         | —         | —         | —         | 8            |
| (b) Without mention of septic conditions.....                                             | —        | 3         | 2         | 8          | 11         | 1         | 3         | 1         | —         | 29           |
| Other accidents of pregnancy (hæmorrhage excluded).....                                   | —        | —         | —         | 2          | 4          | —         | 1         | 1         | —         | 8            |
| Puerperal hæmorrhage.....                                                                 | 1        | 6         | 10        | 68         | 40         | 11        | 17        | 15        | 7         | 175          |
| (a) Placenta prævia.....                                                                  | —        | 4         | 5         | 28         | 16         | 2         | 1         | 2         | 4         | 62           |
| (b) Other hæmorrhage.....                                                                 | 1        | 2         | 5         | 40         | 24         | 9         | 16        | 13        | 3         | 113          |
| Puerperal septicæmia (not specified as consequent upon abortion).....                     | 2        | 10        | 11        | 95         | 80         | 14        | 16        | 9         | 12        | 249          |
| (a) Puerperal septicæmia or pyæmia.....                                                   | 2        | 10        | 11        | 95         | 80         | 14        | 16        | 9         | 12        | 249          |
| (b) Puerperal tetanus.....                                                                | —        | —         | —         | —          | —          | —         | —         | —         | —         | —            |
| Puerperal albuminuria and eclampsia.....                                                  | 1        | 9         | 14        | 81         | 56         | 9         | 14        | 10        | 7         | 201          |
| Other toxæmias of pregnancy.....                                                          | —        | 1         | 2         | 15         | 19         | 3         | 2         | 8         | —         | 50           |
| Puerperal phlegmasia alba dolens, embolism or sudden death (not specified as septic)..... | 2        | 7         | 3         | 32         | 45         | 6         | 10        | 4         | 5         | 114          |
| (a) Phlegmasia alba dolens and thrombosis.....                                            | —        | —         | —         | 6          | 7          | 1         | 2         | 1         | 3         | 20           |
| (b) Embolism.....                                                                         | 1        | 6         | 3         | 18         | 27         | 4         | 8         | 2         | 2         | 71           |
| (c) Sudden death.....                                                                     | 1        | 1         | —         | 8          | 11         | 1         | —         | 1         | —         | 23           |
| Other accidents of childbirth.....                                                        | —        | 6         | 11        | 37         | 36         | 4         | 16        | 5         | 6         | 121          |
| (a) Cæsarean section.....                                                                 | —        | 1         | 3         | 5          | 15         | 1         | 3         | 2         | 1         | 31           |
| (b) Dystocia.....                                                                         | —        | 1         | 2         | 12         | 2          | 2         | 1         | 1         | 2         | 23           |
| (c) Instrumental delivery.....                                                            | —        | 1         | 2         | 1          | 4          | 1         | 4         | 2         | 2         | 17           |
| (d) Rupture of uterus in parturition.....                                                 | —        | 3         | 2         | 2          | 4          | —         | 1         | —         | 1         | 13           |
| (e) Other accidents of labour.....                                                        | —        | —         | 2         | 17         | 11         | —         | 7         | —         | —         | 37           |
| Other or not specified conditions of the puerperal state.....                             | —        | —         | —         | 2          | 1          | —         | —         | 3         | —         | 6            |
| (a) Puerperal diseases of the breast.....                                                 | —        | —         | —         | 1          | —          | —         | —         | —         | —         | 1            |
| (b) Others under this title.....                                                          | —        | —         | —         | 1          | 1          | —         | —         | 3         | —         | 5            |
| <b>Totals.....</b>                                                                        | <b>8</b> | <b>52</b> | <b>60</b> | <b>381</b> | <b>346</b> | <b>54</b> | <b>92</b> | <b>73</b> | <b>45</b> | <b>1,111</b> |

As compared with the previous year, the number of maternal deaths shows a decrease of 34 or nearly 3 p.c., but the decrease from 1930 is nearly 16 p.c. All provinces except Prince Edward Island, New Brunswick, Quebec and Saskatchewan show decreases compared with 1931. For the second time since 1921, when statistics covered the provinces other than Quebec, and since 1926, when figures were made available for all provinces, a significant decrease in such deaths is shown. By far the most serious causes of maternal mortality are puerperal septicæmia and puerperal albuminuria and eclampsia. It is encouraging to observe that the deaths from these causes decreased from 672 in 1931 to 632 in 1932, or by nearly 6 p.c., although it is also necessary to consider that births in the same period declined by 2 p.c. In 1933 deaths from maternal causes declined to 1,111, *i.e.*, by a further 5.9 p.c. from 1932, and births declined 5.4 p.c. from 1932.

## CHAPTER VI.—IMMIGRATION AND COLONIZATION.

While the great majority of French-Canadians can trace their descent to ancestors who left the Old World 250 years ago or even longer, most English-speaking Canadians are comparative newcomers both to Canada and to this continent, though a considerable number of the United Empire Loyalist families had been resident in the old colonies for generations before they moved north to establish English-speaking settlements in what is now the Dominion of Canada. During the middle third of the nineteenth century a great English-speaking migration entered the province of Ontario and made it for the first time more populous than the sister province of Quebec, thus bringing about the agitation for representation by population. Thereafter, immigration slackened until the dawn of the twentieth century brought another flood of settlers to the newly opened territories of the great Northwest, resulting in an increase of population between the Censuses of 1901 and 1911 greater than the combined increase of the three decades from 1871 to 1901.

Immigration during the second decade of the twentieth century promised, at its commencement, to be even greater than during the first. In its first three years no fewer than 1,084,934 persons entered Canada for purposes of settlement, but the Great War, which commenced for Canada on Aug. 4, 1914, dried up the sources of our immigration in the United Kingdom and Continental Europe, where every able-bodied man was needed for the defence of his country. Immigrant arrivals from the United Kingdom in 1918 numbered only about 3,000, as compared with 150,000 in 1913; immigrant arrivals from Continental Europe numbered less than 3,000 in 1916, as compared with approximately 135,000 in 1914. Since the War, immigration to the Dominion has never approached that of the pre-war period.

### Section 1.—Statistics of Immigration.

Immigration to Canada, as to other new countries, is generally greatest in "boom" periods, when capital as well as labour is leaving the older countries for the newer in order to secure the more remunerative investments generally to be found in virgin territories where the natural resources are still unexploited. In periods of depression, however, the sending abroad of both capital and labour is diminished, both preferring at such times to endure the ills which they know at home rather than take the risks of a new adventure at a distance. Indeed, the depression which began about the close of 1929, with its accompanying unemployment and unsold surplus of farm products, raised the question whether it was desirable that Canada should accept immigrants in any considerable number. Therefore, the Government, on Aug. 14, 1930, passed an Order in Council whereby immigrants, except Britishers coming from the Mother Country or self-governing Dominions and United States' citizens coming from the United States, were allowed to come in only if they belonged to one of two classes—(a) wives and unmarried children under eighteen years of age, joining family heads established in Canada and in a position to look after their dependants; (b) agriculturists with sufficient money to begin farming in Canada. This limitation applies to the whole continent of Europe as well as to many other countries. Regulations affecting immigration from the British Isles, the British Dominions or the United States have not been changed but a policy of no solicitation has been rigidly adopted. In harmony with

this policy the Department of Immigration and Colonization, during 1931, closed all its Canadian Government Information Bureaus in the United States and reduced its representation in the British Isles.

For many years the Immigration Regulations have contained a general provision that immigrants coming to Canada must have sufficient funds to look after themselves until employment is secured. Naturally, when employment is readily available a sum would be considered sufficient which would be insufficient in periods of unemployment, and the enforcement of this regulation is an important factor in reducing immigration at the present time. An Order in Council (Aug. 7, 1929), prohibiting the landing in Canada of any immigrant coming under contract or agreement, expressed or implied, to perform labour or service of any kind in Canada, is also in effect but this prohibition does not apply to farmers, farm labourers, or houseworkers. Under the Order, the Minister of Immigration and Colonization may admit any contract labourer if satisfied that his labour or service is required in Canada.

The relationship of prosperity and adversity to immigration is illustrated by Table 2, which shows that, previous to the present depression, immigration was at its minimum in the years centring on 1896; that it steadily increased from that time until 1908; that a decline took place in the fiscal year ended Mar. 31, 1909, on account of the short depression of 1908; and that thereafter immigration steadily increased till 1913. In the fiscal years 1915 to 1919, political rather than economic conditions restricted immigration but, with the expansion of business at the end of the War, our immigration was more than doubled, while the depression which characterized 1921 and 1922 is reflected in the declining immigration of the fiscal years ended Mar. 31, 1922 and 1923. An improvement in business conditions in 1923 was reflected in an increase of immigration during the fiscal year ended Mar. 31, 1924, when 145,250 settlers entered Canada as compared with less than half that number in the preceding year. The fiscal years ended Mar. 31, 1925 and 1926, showed declines of 23.3 and 33.9 p.c. respectively from the 1924 level, but the fiscal years ended 1927 to 1929 showed increases in harmony with the general upward trend of business. The fiscal year ended Mar. 31, 1930, showed a slight falling-off, and the restrictions on immigration imposed since August, 1930, referred to on p. 211 have been mainly instrumental in reducing the total of immigrant arrivals from 163,288 in 1930 to 19,782 and 13,903 for the fiscal years 1933 and 1934 respectively.

The number of immigrant settlers in Canada is shown by calendar years from 1867 to 1880 in Table 1, and the number of immigrant arrivals in Canada from the United Kingdom, the United States and other countries, is given by years from 1881 in Table 2.

#### 1.—Number of Immigrants Settling in Canada in each of the calendar years 1867-1880.

(Compiled from the Reports of the Minister of Agriculture.)

| Year.     | Number. | Year.     | Number. |
|-----------|---------|-----------|---------|
| 1867..... | 14,666  | 1874..... | 39,373  |
| 1868..... | 12,765  | 1875..... | 27,382  |
| 1869..... | 18,630  | 1876..... | 25,633  |
| 1870..... | 21,700  | 1877..... | 27,082  |
| 1871..... | 27,773  | 1878..... | 29,807  |
| 1872..... | 36,578  | 1879..... | 40,492  |
| 1873..... | 50,050  | 1880..... | 38,505  |



## 2.—Number of Immigrant Arrivals in Canada from the United Kingdom, the United States and other Countries, calendar or fiscal years ended 1881-1931.

NOTE.—The figures of immigration from the United States for the years 1901 to 1921, inclusive, differ from the figures published in previous issues of the Year Book owing to the discovery that prior to April 1, 1924, certain persons returning to Canada from the United States after having previously resided in Canada had been improperly included in the immigration figures.

| Calendar<br>or<br>Fiscal<br>Year. | Immigrant Arrivals<br>from— |                                |                          | Total. <sup>1</sup> | Fiscal<br>Year. | Immigrant Arrivals<br>from— |                                |                          | Total. <sup>1</sup> |
|-----------------------------------|-----------------------------|--------------------------------|--------------------------|---------------------|-----------------|-----------------------------|--------------------------------|--------------------------|---------------------|
|                                   | United<br>King-<br>dom.     | United<br>States. <sup>1</sup> | Other<br>Coun-<br>tries. |                     |                 | United<br>King-<br>dom.     | United<br>States. <sup>1</sup> | Other<br>Coun-<br>tries. |                     |
| 1881 <sup>2</sup> .....           | 17,033                      | 21,822                         | 9,136                    | 47,991              | 1908.....       | 120,182                     | 53,152                         | 83,975                   | 257,309             |
| 1882 <sup>2</sup> .....           | 41,283                      | 58,372                         | 12,803                   | 112,458             | 1909.....       | 52,901                      | 54,294                         | 34,175                   | 141,370             |
| 1883 <sup>2</sup> .....           | 45,439                      | 78,508                         | 9,677                    | 133,624             | 1910.....       | 59,790                      | 91,048                         | 45,206                   | 196,044             |
| 1884 <sup>2</sup> .....           | 31,787                      | 65,896                         | 6,151                    | 103,824             | 1911.....       | 123,013                     | 104,884                        | 66,620                   | 294,517             |
| 1885 <sup>2</sup> .....           | 18,591                      | 57,595                         | 3,072                    | 79,169              | 1912.....       | 138,121                     | 114,326                        | 82,406                   | 334,853             |
| 1886 <sup>2</sup> .....           | 23,507                      | 40,650                         | 4,995                    | 69,152              | 1913.....       | 150,542                     | 119,418                        | 112,881                  | 382,841             |
| 1887 <sup>2</sup> .....           | 31,104                      | 41,046                         | 12,376                   | 84,526              | 1914.....       | 142,622                     | 89,892                         | 134,726                  | 367,240             |
| 1888 <sup>2</sup> .....           | 30,852                      | 44,952                         | 12,962                   | 88,766              | 1915.....       | 43,276                      | 41,768                         | 41,734                   | 126,778             |
| 1889 <sup>2</sup> .....           | 19,384                      | 67,896                         | 4,320                    | 91,600              | 1916.....       | 8,664                       | 25,853                         | 2,936                    | 37,453              |
| 1890 <sup>2</sup> .....           | 21,793                      | 50,336                         | 2,988                    | 75,067              | 1917.....       | 8,282                       | 51,143                         | 5,703                    | 65,128              |
| 1891 <sup>2</sup> .....           | 22,042                      | 52,516                         | 7,607                    | 82,165              | 1918.....       | 3,178                       | 58,185                         | 4,582                    | 65,945              |
| 1892 <sup>2</sup> .....           | 22,636                      | —                              | 8,360                    | 30,996              | 1919.....       | 9,914                       | 31,955                         | 7,073                    | 48,942              |
| 1893 <sup>2</sup> .....           | 20,071                      | —                              | 9,562                    | 29,633              | 1920.....       | 59,603                      | 40,728                         | 8,077                    | 108,408             |
| 1894 <sup>2</sup> .....           | 16,001                      | —                              | 4,825                    | 20,829              | 1921.....       | 74,262                      | 38,310                         | 26,156                   | 138,728             |
| 1895 <sup>2</sup> .....           | 14,956                      | —                              | 3,834                    | 18,790              | 1922.....       | 39,020                      | 21,670                         | 21,634                   | 82,324              |
| 1896 <sup>2</sup> .....           | 12,384                      | —                              | 4,451                    | 16,835              | 1923.....       | 34,508                      | 16,566                         | 16,372                   | 67,446              |
| 1897 <sup>2</sup> .....           | 11,383                      | 2,412                          | 7,921                    | 21,716              | 1924.....       | 72,919                      | 17,211                         | 55,120                   | 145,250             |
| 1898 <sup>2</sup> .....           | 11,173                      | 9,119                          | 11,608                   | 31,900              | 1925.....       | 53,178                      | 15,818                         | 42,366                   | 111,362             |
| 1899 <sup>2</sup> .....           | 10,660                      | 11,945                         | 21,938                   | 44,543              | 1926.....       | 37,030                      | 18,778                         | 40,256                   | 96,064              |
| 1900 <sup>3</sup> .....           | 5,141                       | 8,543                          | 10,211                   | 23,895              | 1927.....       | 49,784                      | 21,025                         | 73,180                   | 143,989             |
| 1901.....                         | 11,310                      | 17,987                         | 19,352                   | 49,149              | 1928.....       | 50,872                      | 25,007                         | 75,721                   | 151,600             |
| 1902.....                         | 17,259                      | 26,388                         | 23,732                   | 67,379              | 1929.....       | 58,880                      | 30,560                         | 78,283                   | 167,723             |
| 1903.....                         | 41,792                      | 49,473                         | 37,099                   | 128,364             | 1930.....       | 64,082                      | 30,727                         | 68,479                   | 163,288             |
| 1904.....                         | 50,374                      | 40,739                         | 34,786                   | 125,899             | 1931.....       | 27,584                      | 24,280                         | 36,359                   | 88,223              |
| 1905.....                         | 65,359                      | 39,330                         | 37,364                   | 142,053             | 1932.....       | 7,088                       | 14,297                         | 4,367                    | 25,752              |
| 1906.....                         | 30,796                      | 52,796                         | 44,472                   | 184,064             | 1933.....       | 3,097                       | 13,196                         | 3,489                    | 19,782              |
| 1907 <sup>4</sup> .....           | 55,791                      | 32,157                         | 34,217                   | 122,165             | 1934.....       | 2,260                       | 7,740                          | 3,903                    | 13,903              |

<sup>1</sup> The figures of immigration from the United States for the years 1881 to 1891 do not distinguish between immigrants and non-immigrants. As the U.S.-born population of Canada, according to the censuses, increased only from 77,753 to 80,915 between 1881 and 1891, it would appear that the number of permanent immigrants from the United States in these years must have been comparatively small. No statistics of immigrants from the U.S. were collected for the years 1892 to 1896. <sup>2</sup> Calendar year. <sup>3</sup> Six months, January to June, inclusive. <sup>4</sup> Nine months ended March 31.

**Sex and Conjugal Condition of Immigrants.** — As shown by Table 3, the 13,903 immigrants who came to Canada in the fiscal year ended Mar. 31, 1934, included 5,945 males and 7,958 females, males constituting only 42.8 p.c. of the total, as compared with 46.4 p.c. in the fiscal year 1933. Prior to 1932 they normally exceeded females, as is shown in Table 4.

## 3.—Sex and Conjugal Condition of Immigrants into Canada, by Age Groups, fiscal years ended Mar. 31, 1933 and 1934.

1933.

| Age Group in<br>Years. | Males.  |               |               |                |        | Females. |               |               |                |        |
|------------------------|---------|---------------|---------------|----------------|--------|----------|---------------|---------------|----------------|--------|
|                        | Single. | Mar-<br>ried. | Widow-<br>ed. | Di-<br>vorced. | Total. | Single.  | Mar-<br>ried. | Widow-<br>ed. | Di-<br>vorced. | Total. |
| 0-14.....              | 3,553   | —             | —             | —              | 3,553  | 3,221    | —             | —             | —              | 3,221  |
| 15-19.....             | 665     | 8             | —             | —              | 673    | 556      | 110           | —             | 1              | 667    |
| 20-24.....             | 466     | 97            | —             | 2              | 565    | 500      | 754           | 5             | 3              | 1,262  |
| 25-29.....             | 400     | 355           | 4             | 7              | 766    | 322      | 1,082         | 11            | 9              | 1,424  |
| 30-39.....             | 399     | 1,085         | 19            | 18             | 1,521  | 248      | 1,632         | 67            | 27             | 1,974  |
| 40-49.....             | 170     | 837           | 36            | 23             | 1,066  | 116      | 746           | 92            | 14             | 968    |
| 50 and over.....       | 116     | 723           | 178           | 10             | 1,027  | 119      | 525           | 433           | 18             | 1,095  |
| Totals.....            | 5,769   | 3,105         | 237           | 60             | 9,171  | 5,082    | 4,849         | 608           | 72             | 10,611 |

### 3.—Sex and Conjugal Condition of Immigrants into Canada, by Age Groups, fiscal years ended Mar. 31, 1933 and 1934.—concluded.

1934.

| Age Group in Years. | Males.       |              |            |           |              | Females.     |              |            |           |              |
|---------------------|--------------|--------------|------------|-----------|--------------|--------------|--------------|------------|-----------|--------------|
|                     | Single.      | Married.     | Widowed.   | Divorced. | Total.       | Single.      | Married.     | Widowed.   | Divorced. | Total.       |
| 0-14.....           | 2,080        | —            | —          | —         | 2,080        | 2,058        | —            | —          | —         | 2,058        |
| 15-19.....          | 411          | 1            | —          | —         | 412          | 462          | 97           | —          | —         | 559          |
| 20-24.....          | 383          | 65           | —          | —         | 448          | 436          | 512          | 6          | 4         | 958          |
| 25-29.....          | 336          | 227          | 2          | —         | 565          | 321          | 841          | 9          | 10        | 1,181        |
| 30-39.....          | 318          | 681          | 16         | 21        | 1,036        | 281          | 1,244        | 49         | 18        | 1,592        |
| 40-49.....          | 110          | 533          | 22         | 10        | 675          | 123          | 501          | 78         | 27        | 729          |
| 50 and over.....    | 81           | 518          | 122        | 8         | 729          | 110          | 413          | 347        | 11        | 881          |
| <b>Totals.....</b>  | <b>3,719</b> | <b>2,025</b> | <b>162</b> | <b>39</b> | <b>5,945</b> | <b>3,791</b> | <b>3,605</b> | <b>489</b> | <b>70</b> | <b>7,958</b> |

### 4.—Sex Distribution of Immigrants as Adult Males, Adult Females and Children, fiscal years ended Mar. 31, 1911-34.

NOTE.—Figures for fiscal years ended 1911-24 are revised. See headnote to Table 2.

| Fiscal Year. | Adult Males. | Adult Females. | Children under 14. | Total.  | Fiscal Year. | Adult Males. | Adult Females. | Children under 14.  | Total.  |
|--------------|--------------|----------------|--------------------|---------|--------------|--------------|----------------|---------------------|---------|
| 1911.....    | 176,324      | 66,219         | 51,974             | 294,517 | 1923.....    | 31,048       | 22,897         | 13,501              | 67,446  |
| 1912.....    | 201,518      | 76,670         | 56,665             | 334,853 | 1924.....    | 80,077       | 37,630         | 21,543              | 145,250 |
| 1913.....    | 229,474      | 88,349         | 65,018             | 382,841 | 1925.....    | 55,478       | 34,294         | 21,590              | 111,362 |
| 1914.....    | 215,674      | 87,642         | 63,924             | 367,240 | 1926.....    | 46,963       | 26,611         | 22,490 <sup>1</sup> | 96,064  |
| 1915.....    | 66,433       | 35,662         | 24,683             | 126,778 | 1927.....    | 80,512       | 33,277         | 30,202 <sup>1</sup> | 143,991 |
| 1916.....    | 18,399       | 11,439         | 7,615              | 37,453  | 1928.....    | 82,204       | 36,978         | 32,415 <sup>1</sup> | 151,597 |
| 1917.....    | 38,461       | 15,937         | 10,730             | 65,128  | 1929.....    | 94,861       | 38,937         | 33,924 <sup>1</sup> | 167,722 |
| 1918.....    | 41,343       | 13,565         | 11,037             | 65,945  | 1930.....    | 74,062       | 47,534         | 41,692 <sup>1</sup> | 163,288 |
| 1919.....    | 22,357       | 15,467         | 11,118             | 48,942  | 1931.....    | 34,317       | 28,777         | 25,129 <sup>1</sup> | 88,223  |
| 1920.....    | 37,297       | 47,037         | 24,074             | 108,408 | 1932.....    | 6,664        | 9,133          | 9,955 <sup>1</sup>  | 25,752  |
| 1921.....    | 66,249       | 46,309         | 26,170             | 138,728 | 1933.....    | 5,135        | 7,053          | 7,594 <sup>1</sup>  | 19,782  |
| 1922.....    | 35,030       | 29,668         | 17,626             | 82,324  | 1934.....    | 3,608        | 5,628          | 4,667 <sup>1</sup>  | 13,903  |

<sup>1</sup> "Children" since 1926 has included all under 18 years of age.

**Racial Origins of Immigrants.**—Where there is any considerable immigration into a democratic country, the racial and linguistic composition of the immigrants is of great importance. Canadians prefer that settlers should be of a readily assimilable type, already identified by race or language with one or other of the two great races now inhabiting this country and prepared for the duties of Canadian citizenship. Since the French are not, to any great extent, an emigrating people, this means in practice that the great bulk of the preferable settlers are those who speak the English language—those coming from the United Kingdom or the United States. Next in order of readiness of assimilation are the Scandinavians, Dutch and Germans, who readily learn English and are already acquainted with the working of democratic institutions. Settlers from Southern and Eastern Europe, however desirable from a purely economic point of view, are less readily assimilated, and the Canadianizing of the people who have come to Canada from these regions in the present century is a problem both in the agricultural Prairie Provinces and in the cities of the East. Less assimilable still, are those who come to Canada from the Orient. On the whole the great bulk of Canadian immigration of the past generation has been drawn from the English-speaking countries and from those continental European countries where the population is ethnically nearly related to the British, though for some years there was an increasing immigration of Slavs.

The racial origins of the immigrants who arrived in Canada in the fiscal years ended Mar. 31, 1928 to 1934, are shown in Table 5. In the latest year the British races contributed 50 p.c. of the immigrants, French 9 p.c., and German 8 p.c.

5.—Racial Origins of Immigrants into Canada, fiscal years ended Mar. 31, 1928-34.

| Racial Origin.                          | 1928.   | 1929.   | 1930.   | 1931.  | 1932.  | 1933.  | 1934.  |
|-----------------------------------------|---------|---------|---------|--------|--------|--------|--------|
| British—                                |         |         |         |        |        |        |        |
| English.....                            | 33,282  | 39,536  | 41,657  | 22,160 | 8,800  | 6,093  | 3,998  |
| Irish.....                              | 11,722  | 12,966  | 13,921  | 7,137  | 2,507  | 1,835  | 1,188  |
| Scottish.....                           | 17,197  | 19,590  | 22,278  | 10,789 | 3,575  | 2,511  | 1,585  |
| Welsh.....                              | 2,073   | 3,489   | 3,337   | 1,048  | 326    | 162    | 132    |
| Totals, British.....                    | 64,274  | 75,581  | 81,193  | 41,134 | 15,208 | 10,601 | 6,903  |
| Continental European—                   |         |         |         |        |        |        |        |
| Albanian.....                           | 33      | 35      | 27      | 26     | 5      | —      | 1      |
| Belgian.....                            | 2,249   | 1,301   | 788     | 360    | 78     | 79     | 64     |
| Bohemian.....                           | 74      | 94      | 101     | 68     | 21     | 23     | 10     |
| Bulgarian.....                          | 251     | 294     | 305     | 295    | 18     | 8      | 14     |
| Croatian.....                           | 907     | 1,014   | 782     | 484    | 111    | 100    | 114    |
| Czech.....                              | 727     | 851     | 448     | 233    | 78     | 72     | 59     |
| Dalmatian.....                          | —       | 1       | 7       | —      | —      | —      | —      |
| Dutch.....                              | 2,465   | 2,340   | 2,458   | 788    | 269    | 259    | 164    |
| Estonian.....                           | 112     | 92      | 119     | 65     | 7      | 1      | 4      |
| Finnish.....                            | 4,877   | 3,751   | 4,647   | 2,354  | 130    | 59     | 67     |
| French.....                             | 4,006   | 4,679   | 5,116   | 4,738  | 2,821  | 2,790  | 1,204  |
| German <sup>1</sup> .....               | 15,981  | 17,118  | 18,526  | 10,581 | 2,259  | 1,698  | 1,156  |
| Greek.....                              | 655     | 806     | 682     | 436    | 63     | 69     | 60     |
| Herzegovinian.....                      | 4       | —       | —       | —      | —      | —      | —      |
| Italian.....                            | 3,783   | 1,064   | 1,513   | 1,235  | 580    | 397    | 376    |
| Jewish.....                             | 4,766   | 3,848   | 4,164   | 3,421  | 649    | 772    | 943    |
| Lettish.....                            | 85      | 77      | 78      | 29     | 6      | 4      | 4      |
| Lithuanian.....                         | 1,052   | 1,626   | 986     | 477    | 50     | 63     | 39     |
| Magyar.....                             | 5,421   | 6,348   | 5,787   | 2,472  | 438    | 384    | 527    |
| Maltese.....                            | 40      | 19      | 41      | 19     | 5      | 6      | —      |
| Mexican.....                            | 1       | —       | —       | —      | 1      | —      | —      |
| Montenegrin.....                        | —       | —       | 2       | 3      | —      | —      | —      |
| Moravian.....                           | 35      | 5       | 23      | 2      | 1      | 3      | —      |
| Polish.....                             | 6,987   | 8,515   | 6,837   | 4,223  | 657    | 459    | 424    |
| Portuguese.....                         | 11      | 22      | 24      | 15     | 4      | 7      | 6      |
| Roumanian.....                          | 275     | 332     | 445     | 223    | 37     | 37     | 34     |
| Russian.....                            | 1,132   | 1,193   | 938     | 976    | 106    | 97     | 77     |
| Ruthenian.....                          | 10,189  | 15,610  | 11,332  | 6,491  | 540    | 461    | 429    |
| Scandinavian—                           |         |         |         |        |        |        |        |
| Danish.....                             | 4,119   | 3,662   | 3,004   | 1,004  | 140    | 108    | 90     |
| Icelandic.....                          | 46      | 47      | 34      | 42     | 10     | 7      | 10     |
| Norwegian.....                          | 5,657   | 3,853   | 3,405   | 1,385  | 241    | 262    | 139    |
| Swedish.....                            | 3,891   | 4,171   | 3,654   | 1,096  | 274    | 182    | 129    |
| Serbian.....                            | 426     | 410     | 404     | 158    | 47     | 44     | 47     |
| Slovak.....                             | 3,734   | 4,343   | 2,925   | 1,989  | 346    | 260    | 401    |
| Spanish.....                            | 45      | 67      | 63      | 34     | 20     | 23     | 13     |
| Spanish American.....                   | —       | 7       | 4       | 2      | 2      | 1      | 4      |
| Swiss.....                              | 748     | 646     | 590     | 294    | 52     | 58     | 49     |
| Turkish.....                            | 6       | 7       | 7       | 7      | 2      | —      | 2      |
| Yugoslavic.....                         | 1,469   | 2,856   | 956     | 391    | 66     | 67     | 66     |
| Totals, Continental European Races..... | 86,259  | 91,094  | 61,624  | 46,416 | 10,134 | 8,860  | 6,726  |
| Non-European Races—                     |         |         |         |        |        |        |        |
| American Indian.....                    | 28      | 23      | 22      | 8      | 34     | 20     | 8      |
| Arabian.....                            | 7       | 2       | 9       | 2      | —      | 2      | —      |
| Armenian.....                           | 53      | 27      | 30      | 22     | 5      | 5      | 10     |
| Chinese.....                            | —       | —       | —       | —      | —      | 1      | 2      |
| East Indian Races.....                  | 56      | 53      | 58      | 80     | 47     | 63     | 33     |
| Japanese.....                           | 478     | 446     | 194     | 205    | 195    | 115    | 105    |
| Negro.....                              | 325     | 376     | 446     | 278    | 98     | 69     | 76     |
| Persian.....                            | 4       | 1       | 1       | 2      | —      | 1      | —      |
| Syrian.....                             | 113     | 119     | 112     | 76     | 31     | 45     | 40     |
| Totals, Non-European Races.....         | 1,064   | 1,047   | 872     | 673    | 410    | 321    | 274    |
| Grand Totals.....                       | 151,597 | 167,722 | 163,288 | 88,223 | 25,752 | 19,782 | 13,903 |

<sup>1</sup> "German" includes Austrian.

**Languages of Immigrants.**—The languages of immigrants 10 years old and over, arriving *via* ocean ports and from the United States, are shown for the fiscal years ended Mar. 31, 1928 to 1934, in Table 6. English-speaking immigrants constituted 67 p.c. of the total in 1934, and French-speaking immigrants 5 p.c.

**6.—Languages of Immigrants Ten Years of Age and Over, fiscal years ended Mar. 31, 1928-34.**

| Language.               | 1928.              | 1929.          | 1930.          | 1931.         | 1932.         | 1933.         | 1934.         |
|-------------------------|--------------------|----------------|----------------|---------------|---------------|---------------|---------------|
| English.....            | 62,431             | 75,409         | 77,900         | 40,280        | 14,744        | 10,395        | 7,131         |
| French.....             | 1,977              | 2,178          | 2,178          | 1,676         | 943           | 1,005         | 501           |
| German.....             | 11,747             | 11,812         | 13,180         | 6,685         | 588           | 477           | 392           |
| Norwegian.....          | 3,947              | 2,229          | 2,084          | 678           | 63            | 73            | 33            |
| Swedish.....            | 3,164              | 3,308          | 2,969          | 729           | 85            | 45            | 26            |
| Danish.....             | 3,470              | 2,993          | 2,412          | 747           | 42            | 51            | 41            |
| Icelandic.....          | 24                 | 25             | 8              | 20            | 3             | 3             | 5             |
| Flemish.....            | 1,622              | 857            | 513            | 206           | 32            | 33            | 35            |
| Dutch.....              | 1,343              | 948            | 930            | 291           | 37            | 34            | 19            |
| Finnish.....            | 4,472              | 3,342          | 4,199          | 2,108         | 67            | 31            | 38            |
| Estonian.....           | 98                 | 86             | 95             | 53            | 5             | 3             | 2             |
| Lettish.....            | 51                 | 62             | 52             | 27            | 3             | 1             | 4             |
| Lithuanian.....         | 945                | 1,538          | 836            | 436           | 26            | 40            | 25            |
| Russian.....            | 1,783              | 1,700          | 1,388          | 961           | 53            | 34            | 54            |
| Hebrew.....             | 2,329 <sup>1</sup> | 1,716          | 1,713          | 1,344         | 232           | 214           | 240           |
| Ruthenian.....          | 7,182              | 11,958         | 7,147          | 3,838         | 203           | 152           | 172           |
| Russniak.....           |                    |                |                |               |               |               |               |
| Ukrainian.....          |                    |                |                |               |               |               |               |
| Polish.....             | 8,834              | 10,022         | 7,481          | 5,125         | 436           | 405           | 630           |
| Roumanian.....          | 306                | 313            | 378            | 202           | 31            | 29            | 32            |
| Slovenian.....          | 212                | 254            | 168            | 84            | 6             | —             | 3             |
| Czech (Bohemian).....   | 4,127              | 5,038          | 2,678          | 1,727         | 213           | 198           | 273           |
| Croatian (Serbian)..... | 2,363              | 3,271          | 1,452          | 740           | 105           | 125           | 126           |
| Hungarian (Magyar)..... | 4,861              | 5,611          | 4,602          | 1,909         | 246           | 233           | 333           |
| Italian.....            | 3,309              | 638            | 1,037          | 861           | 373           | 248           | 237           |
| Spanish.....            | 27                 | 19             | 29             | 19            | 16            | 21            | 20            |
| Portuguese.....         | 3                  | 2              | 2              | 1             | 1             | —             | 1             |
| Greek.....              | 557                | 714            | 615            | 375           | 50            | 47            | 48            |
| Albanian.....           | 25                 | 28             | 19             | 20            | 4             | —             | 1             |
| Turkish.....            | 71                 | 4              | 4              | 5             | 1             | —             | —             |
| Bulgarian.....          | 302                | 325            | 306            | 301           | 16            | 5             | 9             |
| Chinese.....            | —                  | —              | —              | —             | —             | 1             | 2             |
| Japanese.....           | 453                | 404            | 177            | 184           | 185           | 109           | 100           |
| East Indian.....        | 49                 | 42             | 40             | 70            | 42            | 58            | 28            |
| Armenian (Aramaic)..... | 41                 | 14             | 14             | 23            | 3             | 2             | 3             |
| Syrian (Arabic).....    | 82                 | 60             | 64             | 44            | 12            | 21            | 17            |
| <b>Totals.....</b>      | <b>132,137</b>     | <b>146,920</b> | <b>136,670</b> | <b>71,769</b> | <b>18,866</b> | <b>14,093</b> | <b>10,581</b> |

<sup>1</sup> Includes 341 speaking Yiddish.

**Nationalities of Immigrants.**—In the latest fiscal year, ended Mar. 31, 1934, British subjects immigrating to Canada numbered 3,486 and American citizens 6,568, or together over 72 p.c. of the total number of immigrants shown in Table 7. Immigrants of Polish nationality ranked third with nearly 9 p.c.



## 7.—Nationalities of Immigrants, fiscal years ended Mar. 31, 1929-34.

| Nationality.                               | 1929.          | 1930.          | 1931.         | 1932.         | 1933.         | 1934.         |
|--------------------------------------------|----------------|----------------|---------------|---------------|---------------|---------------|
| African (not Br.).....                     | 2              | —              | —             | —             | —             | —             |
| Albanian.....                              | 12             | 29             | 25            | 4             | 1             | 1             |
| Arabian.....                               | 24             | 33             | 32            | 1             | 1             | —             |
| Argentinian.....                           | 10             | 18             | 18            | 3             | 1             | 5             |
| Armenian.....                              | 3              | 1              | 5             | —             | 1             | 1             |
| Atlantic and Pacific islands (not Br.).... | —              | 3              | —             | —             | —             | —             |
| Austrian.....                              | 1,161          | 1,053          | 428           | 61            | 43            | 48            |
| Belgian.....                               | 1,309          | 817            | 335           | 47            | 42            | 53            |
| Bolivian.....                              | 1              | —              | —             | —             | —             | —             |
| Brazilian.....                             | 9              | 1              | 2             | 2             | 1             | 3             |
| British.....                               | 62,558         | 68,083         | 31,082        | 9,147         | 5,089         | 3,486         |
| Bulgarian.....                             | 280            | 295            | 299           | 12            | 4             | 7             |
| Chilean.....                               | 1              | 5              | 1             | 1             | —             | —             |
| Chinese.....                               | —              | —              | —             | —             | 1             | 2             |
| Colombian.....                             | —              | 1              | 5             | —             | 6             | —             |
| Costa Rican.....                           | 1              | 1              | —             | —             | 2             | —             |
| Cuban.....                                 | 4              | 5              | 6             | 2             | 1             | 6             |
| Czechoslovakian.....                       | 7,239          | 4,344          | 2,664         | 515           | 455           | 600           |
| Danish.....                                | 3,387          | 2,770          | 874           | 58            | 57            | 46            |
| Danziger.....                              | —              | —              | 14            | 2             | —             | —             |
| Dominican.....                             | —              | —              | —             | —             | —             | 1             |
| Dutch.....                                 | 1,239          | 1,171          | 341           | 35            | 36            | 25            |
| Ecuadorian.....                            | —              | —              | 1             | 2             | —             | —             |
| Estonian.....                              | 113            | 147            | 84            | 8             | 3             | 1             |
| Finnish.....                               | 4,288          | 5,442          | 2,563         | 108           | 35            | 50            |
| French.....                                | 647            | 599            | 282           | 68            | 76            | 49            |
| German.....                                | 4,309          | 5,853          | 3,633         | 388           | 285           | 189           |
| Greek.....                                 | 733            | 631            | 383           | 25            | 34            | 36            |
| Guatemalan.....                            | —              | —              | —             | 1             | —             | —             |
| Haitian.....                               | —              | —              | —             | —             | 1             | —             |
| Hungarian.....                             | 5,189          | 4,927          | 2,138         | 353           | 329           | 434           |
| Icelandic.....                             | 33             | 11             | 33            | 3             | 2             | 5             |
| Italian.....                               | 782            | 1,220          | 974           | 410           | 247           | 256           |
| Japanese.....                              | 415            | 148            | 151           | 142           | 96            | 100           |
| Korean.....                                | —              | —              | —             | —             | 1             | —             |
| Latvian.....                               | 126            | 212            | 103           | 10            | 6             | 6             |
| Lithuanian.....                            | 1,935          | 1,346          | 650           | 77            | 86            | 46            |
| Luxemburger.....                           | 27             | 19             | 14            | —             | —             | —             |
| Mexican.....                               | 6              | 29             | 10            | —             | 2             | 2             |
| Norwegian.....                             | 2,542          | 2,325          | 765           | 71            | 59            | 33            |
| Panamanian.....                            | —              | —              | —             | 2             | 1             | 4             |
| Paraguayan.....                            | 2              | 3              | —             | —             | 1             | 1             |
| Persian.....                               | 6              | 1              | 1             | —             | 1             | 5             |
| Peruvian.....                              | 2              | 5              | 4             | 1             | 2             | —             |
| Polish.....                                | 25,805         | 21,359         | 13,886        | 1,234         | 1,033         | 1,242         |
| Puerto Rican.....                          | —              | 1              | 1             | —             | —             | —             |
| Portuguese.....                            | 2              | 2              | —             | —             | —             | —             |
| Roumanian.....                             | 4,857          | 5,280          | 2,134         | 187           | 165           | 174           |
| Russian.....                               | 3,123          | 1,470          | 949           | 32            | 60            | 88            |
| South American.....                        | 1              | —              | —             | —             | —             | 1             |
| Spanish.....                               | 16             | 17             | 2             | 4             | 1             | —             |
| Swedish.....                               | 2,742          | 2,108          | 509           | 73            | 21            | 24            |
| Swiss.....                                 | 654            | 703            | 311           | 35            | 31            | 35            |
| Syrian.....                                | 61             | 63             | 50            | 12            | 19            | 17            |
| Turkish.....                               | 15             | 16             | 8             | 3             | 3             | 2             |
| Ukrainian.....                             | 96             | 8              | 6             | 3             | 3             | 3             |
| United States.....                         | 26,647         | 26,847         | 20,765        | 12,325        | 11,211        | 6,568         |
| Uruguayan.....                             | 3              | 2              | 1             | —             | —             | 1             |
| Venezuelan.....                            | 1              | —              | —             | 2             | —             | —             |
| West Indian (not Br.).....                 | —              | —              | —             | 1             | —             | —             |
| Yugoslavian.....                           | 5,304          | 3,864          | 1,681         | 282           | 227           | 247           |
| <b>Totals.....</b>                         | <b>167,722</b> | <b>163,288</b> | <b>88,223</b> | <b>25,752</b> | <b>19,782</b> | <b>13,903</b> |

**Countries of Birth of Immigrants.**—In Table 8 will be found the countries of birth of the immigrants into Canada in the latest two fiscal years. The figures show that the United States with 5,648 was the birthplace of more of our 1934 immigrants than any other single country. This has been the case since 1930. In 1934 England came second with 1,609, Poland third with 1,275 and Scotland fourth with 735.

## 8.—Countries of Birth of Immigrants, fiscal years ended Mar. 31, 1929-34.

| Country of Birth.                  | 1929.          | 1930.          | 1931.         | 1932.         | 1933.         | 1934.         |
|------------------------------------|----------------|----------------|---------------|---------------|---------------|---------------|
| Africa (British).....              | 131            | 142            | 117           | 45            | 34            | 35            |
| Africa (not British).....          | 17             | 31             | 20            | 8             | 7             | 1             |
| Albania.....                       | 35             | 31             | 25            | 5             | 1             | 1             |
| Argentina.....                     | 23             | 29             | 21            | 11            | 2             | 13            |
| Armenia.....                       | 4              | 1              | 6             | 1             | 1             | —             |
| Asia.....                          | 36             | 60             | 30            | 10            | 4             | 4             |
| Australia.....                     | 287            | 270            | 223           | 93            | 55            | 36            |
| Austria.....                       | 1,222          | 1,089          | 490           | 86            | 72            | 53            |
| Belgium.....                       | 1,318          | 859            | 374           | 68            | 61            | 62            |
| Brazil.....                        | 20             | 8              | 5             | 17            | 5             | 9             |
| Bulgaria.....                      | 235            | 238            | 146           | 12            | 4             | 13            |
| Canada.....                        | 1,203          | 1,417          | 1,480         | 1,055         | 1,129         | 714           |
| Central America.....               | 5              | 8              | 17            | 6             | 4             | 1             |
| Chile.....                         | 13             | 16             | 15            | 5             | 1             | 2             |
| China.....                         | 71             | 66             | 44            | 27            | 26            | 22            |
| Czechoslovakia.....                | 7,204          | 4,336          | 2,614         | 509           | 464           | 608           |
| Danzig.....                        | —              | —              | —             | 1             | 2             | —             |
| Denmark.....                       | 3,421          | 2,797          | 880           | 64            | 60            | 55            |
| England.....                       | 29,475         | 31,109         | 14,768        | 4,644         | 2,634         | 1,609         |
| Estonia.....                       | 109            | 136            | 83            | 8             | 4             | 2             |
| Finland.....                       | 4,306          | 5,415          | 2,559         | 114           | 46            | 59            |
| France.....                        | 715            | 680            | 341           | 95            | 100           | 58            |
| Germany.....                       | 4,108          | 5,556          | 3,456         | 428           | 318           | 224           |
| Greece.....                        | 817            | 705            | 537           | 55            | 56            | 45            |
| Guiana (British).....              | 35             | 45             | 39            | 12            | 5             | 3             |
| Holland.....                       | 1,227          | 1,167          | 330           | 41            | 43            | 27            |
| Honduras (British).....            | 9              | 4              | —             | —             | —             | —             |
| Hungary.....                       | 5,238          | 4,976          | 2,155         | 377           | 331           | 448           |
| Iceland.....                       | 39             | 16             | 35            | 3             | 5             | 6             |
| India (British).....               | 247            | 262            | 257           | 138           | 92            | 86            |
| Ireland.....                       | 9,052          | —              | —             | —             | —             | —             |
| Ireland (Free State).....          | —              | 2,800          | 1,447         | 332           | 179           | 145           |
| Ireland (Northern).....            | —              | 6,999          | 2,912         | 577           | 253           | 183           |
| Italy.....                         | 858            | 1,349          | 1,051         | 465           | 295           | 308           |
| Japan.....                         | 454            | 205            | 221           | 203           | 121           | 111           |
| Korea.....                         | 3              | 2              | —             | —             | 2             | 2             |
| Latvia.....                        | 143            | 191            | 93            | 16            | 11            | 12            |
| Lesser British Isles.....          | 166            | 206            | 79            | 34            | 18            | 15            |
| Lithuania.....                     | 1,943          | 1,325          | 655           | 80            | 93            | 46            |
| Malta.....                         | 35             | 47             | 24            | 5             | 3             | —             |
| Mexico.....                        | 25             | 42             | 15            | 4             | 15            | 10            |
| Newfoundland.....                  | 1,509          | 1,734          | 823           | 386           | 317           | 266           |
| New Zealand.....                   | 157            | 175            | 120           | 31            | 17            | 21            |
| Norway.....                        | 2,726          | 2,486          | 842           | 102           | 82            | 47            |
| Persia.....                        | 4              | 3              | 3             | 1             | —             | —             |
| Poland.....                        | 26,083         | 21,624         | 14,035        | 1,304         | 1,089         | 1,275         |
| Portugal.....                      | 5              | 4              | 1             | 1,303         | 1             | —             |
| Roumania.....                      | 4,913          | 5,273          | 2,170         | 202           | 173           | 183           |
| Russia.....                        | 1,901          | 1,961          | 1,335         | 180           | 154           | 159           |
| St. Pierre and Miquelon.....       | 5              | 10             | 4             | 4             | 1             | 1             |
| Scotland.....                      | 17,042         | 19,752         | 8,620         | 2,207         | 1,142         | 735           |
| South America.....                 | 22             | 31             | 20            | 12            | 16            | 8             |
| Spain.....                         | 24             | 28             | 8             | 7             | 2             | 3             |
| Sweden.....                        | 2,890          | 2,193          | 486           | 92            | 57            | 39            |
| Switzerland.....                   | 692            | 644            | 315           | 40            | 32            | 45            |
| Syria.....                         | 65             | 73             | 53            | 21            | 27            | 24            |
| Turkey.....                        | 45             | 66             | 59            | 10            | 9             | 13            |
| Ukraine.....                       | 1,623          | 156            | 42            | 3             | 2             | 3             |
| United States.....                 | 24,296         | 24,315         | 18,639        | 10,835        | 9,695         | 5,648         |
| Wales.....                         | 3,846          | 3,784          | 1,067         | 260           | 97            | 76            |
| West Indies (British).....         | 184            | 302            | 184           | 67            | 46            | 47            |
| West Indies (not British).....     | 18             | 23             | 21            | 16            | 4             | 9             |
| Yugoslavia.....                    | 5,329          | 3,897          | 1,699         | 283           | 244           | 256           |
| Other European countries.....      | 40             | 33             | 46            | 2             | —             | —             |
| Other countries (British).....     | 37             | 53             | 39            | 16            | 9             | 8             |
| Other countries (not British)..... | 17             | 33             | 27            | 12            | 9             | 8             |
| Born at sea.....                   | —              | —              | 1             | 2             | 1             | 1             |
| <b>Totals.....</b>                 | <b>167,722</b> | <b>163,288</b> | <b>88,223</b> | <b>25,752</b> | <b>19,782</b> | <b>13,903</b> |

**Ports of Arrival of Immigrants.**—Throughout the greater part of our history, Quebec has been the port at which the greatest number of our immigrants have landed. In the past years, up to 1934, there was a great increase in the per-

centage of immigrants arriving at the port of Halifax. This would appear to have been due to increasing immigration in the early spring months before the St. Lawrence is open for traffic. Figures for recent years are given in Table 9.

**9.—Immigrants Arriving in Canada, by Chief Ports of Arrival, fiscal years ended Mar. 31, 1928-34.**

| Port.                       | 1928.          | 1929.          | 1930.          | 1931.         | 1932.         | 1933.         | 1934.         |
|-----------------------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|
| Quebec.....                 | 64,392         | 74,653         | 70,688         | 34,114        | 6,932         | 3,548         | 3,063         |
| Saint John.....             | 14,176         | 13,046         | 14,631         | 5,793         | 392           | 46            | 30            |
| Halifax.....                | 43,072         | 44,936         | 42,584         | 20,809        | 2,324         | 1,734         | 1,628         |
| North Sydney.....           | 832            | 1,173          | 1,176          | 538           | 281           | 226           | 219           |
| Sydney.....                 | 7              | 15             | 17             | 15            | 13            | 2             | —             |
| Montreal.....               | 272            | 340            | 516            | 218           | 136           | 68            | 56            |
| Vancouver.....              | 1,386          | 1,115          | 1,038          | 791           | 361           | 286           | 225           |
| Victoria.....               | 475            | 422            | 229            | 232           | 125           | 69            | 57            |
| New York.....               | 1,641          | 1,397          | 1,607          | 1,386         | 850           | 574           | 852           |
| Boston.....                 | 218            | 16             | 23             | 6             | 2             | 4             | 5             |
| Other ports.....            | 119            | 49             | 52             | 41            | 39            | 29            | 28            |
| From the United States..... | 25,007         | 30,560         | 30,727         | 24,280        | 14,297        | 13,196        | 7,740         |
| <b>Totals.....</b>          | <b>151,597</b> | <b>167,722</b> | <b>163,288</b> | <b>88,223</b> | <b>25,752</b> | <b>19,782</b> | <b>13,903</b> |

**Destinations of Immigrants.**—The immediate destinations of the immigrants arriving in Canada are given for the years from 1901 to 1934 in Table 10.

While immigration to the Maritime Provinces during the first 34 years of the twentieth century was comparatively small, that to Quebec and Ontario was very large. From 1905, with the exception of 1929, Ontario received more immigrants annually than any other province of the Dominion, while Saskatchewan was usually second in this respect. In 1929 immigration to Manitoba exceeded that to Ontario by 10,000 persons, but in the years 1930-34 Ontario was again in first place. The immigration to Eastern Canada (Maritime Provinces, Quebec and Ontario) has almost equalled that to Western Canada (Manitoba, Saskatchewan, Alberta and British Columbia) in the 34-year period.

**10.—Destinations of Immigrants into Canada, by Provinces, fiscal years ended June 30, 1901-06, and Mar. 31, 1907-34.**

NOTE.—The figures for the years 1904-24 inclusive have been revised; see headnote to Table 2.

| Fiscal Year.       | Maritime Provinces. | Quebec. | Ontario. | Manitoba. | Saskatchewan. | Alberta. | British Columbia and Yukon. | Not Shown. | Total.  |
|--------------------|---------------------|---------|----------|-----------|---------------|----------|-----------------------------|------------|---------|
| 1901.....          | 2,144               | 10,216  | 6,208    | 11,254    | 14,160        | 2,600    | 2,587                       | —          | 49,149  |
| 1902.....          | 2,312               | 8,817   | 9,798    | 17,422    | 22,199        | 3,483    | 3,348                       | —          | 67,379  |
| 1903.....          | 5,821               | 17,040  | 14,854   | 39,535    | 43,898        | 5,378    | 1,838                       | —          | 128,364 |
| 1904.....          | 5,448               | 20,222  | 21,129   | 33,950    | 38,263        | 6,887    | —                           | —          | 125,899 |
| 1905.....          | 4,126               | 23,660  | 35,687   | 34,494    | 36,845        | 5,864    | 1,977                       | —          | 142,653 |
| 1906.....          | 6,354               | 25,173  | 52,212   | 34,472    | 27,453        | 24,792   | 11,842                      | —          | 184,064 |
| 1907 (9 mos.)..... | 6,466               | 18,314  | 32,593   | 19,907    | 14,715        | 16,554   | 13,191                      | —          | 122,165 |
| 1908.....          | 10,357              | 43,952  | 75,067   | 39,232    | 28,979        | 29,449   | 30,078                      | —          | 257,309 |
| 1909.....          | 6,448               | 18,762  | 29,102   | 19,133    | 20,980        | 25,928   | 20,985                      | —          | 141,370 |
| 1910.....          | 9,359               | 23,759  | 43,998   | 20,583    | 28,378        | 40,769   | 29,198                      | —          | 196,044 |
| 1911.....          | 10,949              | 35,776  | 76,550   | 34,289    | 40,076        | 44,091   | 52,786                      | —          | 294,517 |
| 1912.....          | 11,327              | 42,410  | 96,938   | 43,047    | 45,662        | 45,330   | 50,139                      | —          | 334,853 |
| 1913.....          | 14,440              | 57,104  | 119,178  | 43,383    | 44,553        | 47,485   | 56,698                      | —          | 382,841 |
| 1914.....          | 11,569              | 73,595  | 120,497  | 41,298    | 40,524        | 43,196   | 36,561                      | —          | 367,240 |
| 1915.....          | 5,034               | 23,569  | 42,046   | 12,970    | 15,818        | 17,815   | 9,526                       | —          | 126,778 |
| 1916.....          | 1,753               | 4,584   | 12,582   | 3,283     | 5,779         | 6,935    | 2,537                       | —          | 37,453  |

**10.—Destinations of Immigrants into Canada, by Provinces, fiscal years ended  
June 30, 1901-06, and Mar. 31, 1907-34—concluded.**

| Fiscal Year. | Maritime<br>Provinces. | Quebec. | Ontario. | Mani-<br>toba. | Sask-<br>atche-<br>wan. | Alberta | British<br>Colum-<br>bia and<br>Yukon. | Not<br>Shown. | Total.               |
|--------------|------------------------|---------|----------|----------------|-------------------------|---------|----------------------------------------|---------------|----------------------|
| 1917.....    | 2,465                  | 7,683   | 23,541   | 5,045          | 9,507                   | 12,059  | 4,828                                  | —             | 65,128               |
| 1918.....    | 2,122                  | 4,167   | 20,889   | 5,771          | 11,731                  | 16,171  | 5,094                                  | —             | 65,945               |
| 1919.....    | 1,942                  | 3,675   | 11,834   | 4,517          | 7,944                   | 11,149  | 7,881                                  | —             | 48,942               |
| 1920.....    | 3,857                  | 9,900   | 36,873   | 11,099         | 13,782                  | 19,556  | 13,341                                 | —             | 108,408              |
| 1921.....    | 4,850                  | 17,398  | 59,816   | 12,365         | 13,038                  | 17,122  | 14,139                                 | —             | 138,728              |
| 1922.....    | 2,503                  | 11,040  | 32,047   | 8,733          | 9,426                   | 11,186  | 7,389                                  | —             | 82,324               |
| 1923.....    | 2,676                  | 7,628   | 28,893   | 5,880          | 7,725                   | 8,252   | 6,392                                  | —             | 67,446               |
| 1924.....    | 7,503                  | 18,984  | 64,299   | 21,323         | 12,936                  | 10,178  | 10,027                                 | —             | 145,250              |
| 1925.....    | 3,153                  | 16,279  | 45,912   | 11,772         | 14,041                  | 10,952  | 9,253                                  | —             | 111,362              |
| 1926.....    | 1,670                  | 11,367  | 29,293   | 19,079         | 13,816                  | 12,540  | 8,212                                  | —             | 96,064               |
| 1927.....    | 3,125                  | 16,642  | 40,604   | 36,739         | 20,085                  | 16,367  | 10,410                                 | 16            | 143,991 <sup>1</sup> |
| 1928.....    | 3,741                  | 18,469  | 45,052   | 43,596         | 15,331                  | 15,473  | 9,891                                  | 5             | 151,597 <sup>1</sup> |
| 1929.....    | 4,033                  | 18,659  | 47,656   | 57,651         | 14,789                  | 16,243  | 8,652                                  | 8             | 167,722 <sup>1</sup> |
| 1930.....    | 4,950                  | 23,917  | 59,974   | 39,132         | 11,003                  | 14,970  | 9,333                                  | 1             | 163,288 <sup>1</sup> |
| 1931.....    | 3,704                  | 16,290  | 33,652   | 17,524         | 5,057                   | 6,441   | 5,551                                  | 1             | 88,223 <sup>1</sup>  |
| 1932.....    | 2,462                  | 5,106   | 11,503   | 1,022          | 1,177                   | 2,041   | 2,430                                  | —             | 25,752 <sup>1</sup>  |
| 1933.....    | 1,726                  | 4,113   | 8,787    | 707            | 955                     | 1,635   | 1,956                                  | —             | 19,782 <sup>1</sup>  |
| 1934.....    | 1,192                  | 2,735   | 5,970    | 553            | 690                     | 1,254   | 1,506                                  | 1             | 13,903 <sup>1</sup>  |

<sup>1</sup> Includes immigrants destined for the Northwest Territories: 3 in 1927, 39 in 1928, 1 in 1929, 8 in 1930, 3 in 1931, 11 in 1932, 3 in 1933, and 2 in 1934.

**Occupations of Immigrant Arrivals.**—The immigrants most universally acceptable to Canadians are those who settle on the land or those females who enter domestic service. In Table 11 will be found statistics of the occupations of immigrants arriving in Canada during the fiscal years ended Mar. 31, 1933 and 1934.

**11.—Occupations and Destinations of Immigrants Arriving in Canada, fiscal  
years ended Mar. 31, 1933 and 1934.**

| Occupation.                      | 1933.                  |                               |        | 1934.                  |                               |        |
|----------------------------------|------------------------|-------------------------------|--------|------------------------|-------------------------------|--------|
|                                  | Via<br>Ocean<br>Ports. | From the<br>United<br>States. | Total. | Via<br>Ocean<br>Ports. | From the<br>United<br>States. | Total. |
| Farmers and Farm Labourers—      |                        |                               |        |                        |                               |        |
| Men.....                         | 346                    | 1,154                         | 1,500  | 352                    | 629                           | 981    |
| Women.....                       | 96                     | 534                           | 630    | 101                    | 295                           | 396    |
| Children.....                    | 273                    | 644                           | 917    | 136                    | 292                           | 428    |
| General Labourers—               |                        |                               |        |                        |                               |        |
| Men.....                         | 199                    | 229                           | 428    | 161                    | 171                           | 332    |
| Women.....                       | 27                     | 67                            | 94     | 22                     | 49                            | 71     |
| Children.....                    | 75                     | 70                            | 145    | 43                     | 52                            | 95     |
| Mechanics—                       |                        |                               |        |                        |                               |        |
| Men.....                         | 177                    | 678                           | 855    | 227                    | 368                           | 595    |
| Women.....                       | 74                     | 258                           | 332    | 91                     | 122                           | 213    |
| Children.....                    | 43                     | 191                           | 234    | 48                     | 74                            | 122    |
| Clerks, traders, etc.—           |                        |                               |        |                        |                               |        |
| Men.....                         | 201                    | 909                           | 1,110  | 194                    | 624                           | 818    |
| Women.....                       | 101                    | 371                           | 472    | 92                     | 259                           | 351    |
| Children.....                    | 54                     | 193                           | 247    | 44                     | 141                           | 185    |
| Miners—                          |                        |                               |        |                        |                               |        |
| Men.....                         | 13                     | 36                            | 49     | 9                      | 47                            | 56     |
| Women.....                       | 5                      | 7                             | 12     | 6                      | 8                             | 14     |
| Children.....                    | 5                      | 5                             | 10     | 1                      | 3                             | 4      |
| Domestics—                       |                        |                               |        |                        |                               |        |
| Domestics 18 years and over..... | 428                    | 195                           | 623    | 406                    | 129                           | 535    |
| “ under 18 years.....            | 69                     | 12                            | 81     | 72                     | 5                             | 77     |



**11.—Occupations and Destinations of Immigrants Arriving in Canada, fiscal years ended Mar. 31, 1933 and 1934—concluded.**

| Occupation.             | 1933.            |                         |               | 1934.            |                         |               |
|-------------------------|------------------|-------------------------|---------------|------------------|-------------------------|---------------|
|                         | Via Ocean Ports. | From the United States. | Total.        | Via Ocean Ports. | From the United States. | Total.        |
| Not Classified—         |                  |                         |               |                  |                         |               |
| Men.....                | 240              | 953                     | 1,193         | 215              | 611                     | 826           |
| Women.....              | 2,077            | 2,813                   | 4,890         | 2,059            | 1,989                   | 4,048         |
| Children.....           | 2,083            | 3,877                   | 5,960         | 1,884            | 1,872                   | 3,756         |
| Totals—                 |                  |                         |               |                  |                         |               |
| Men.....                | 1,176            | 3,959                   | 5,135         | 1,158            | 2,450                   | 3,608         |
| Women.....              | 2,877            | 4,257                   | 7,134         | 2,777            | 2,851                   | 5,628         |
| Children.....           | 2,533            | 4,980                   | 7,513         | 2,228            | 2,439                   | 4,667         |
| <b>Totals.....</b>      | <b>6,586</b>     | <b>13,196</b>           | <b>19,782</b> | <b>6,163</b>     | <b>7,740</b>            | <b>13,903</b> |
| Destinations—           |                  |                         |               |                  |                         |               |
| Maritime Provinces..... | 509              | 1,217                   | 1,726         | 418              | 774                     | 1,192         |
| Quebec.....             | 1,175            | 2,938                   | 4,113         | 1,217            | 1,518                   | 2,735         |
| Ontario.....            | 2,673            | 6,114                   | 8,787         | 2,599            | 3,371                   | 5,970         |
| Manitoba.....           | 303              | 404                     | 707           | 288              | 285                     | 553           |
| Saskatchewan.....       | 419              | 536                     | 955           | 368              | 322                     | 690           |
| Alberta.....            | 787              | 848                     | 1,635         | 681              | 573                     | 1,254         |
| British Columbia.....   | 715              | 1,133                   | 1,848         | 609              | 874                     | 1,483         |
| Yukon and N.W.T.....    | 5                | 6                       | 11            | 3                | 22                      | 25            |
| Not given.....          | —                | —                       | —             | —                | 1                       | 1             |

<sup>1</sup> Includes domestics under 18 years of age.

**Prohibited Immigrants.**—The following is quoted from Section 3 of the Immigration Act.

**PROHIBITED CLASSES.**

"No immigrant, passenger or other person, unless he is a Canadian citizen, or has Canadian domicile, shall be permitted to enter or land in Canada, or in case of having landed in or entered Canada shall be permitted to remain therein, who belongs to any of the following classes, hereinafter called 'prohibited classes':—

- (a) Idiots, imbeciles, feeble-minded persons, epileptics, insane persons, and persons who have been insane at any time previously;
- (b) Persons afflicted with tuberculosis in any form, or with any loathsome disease, or with a disease which is contagious or infectious, or which may become dangerous to the public health, whether such persons intend to settle in Canada or only to pass through Canada in transit to some other country: Provided that if such disease is one which is curable within a reasonably short time, such persons may, subject to the regulations in that behalf, if any, be permitted to remain on board ship if hospital facilities do not exist on shore, or to leave ship for medical treatment;
- (c) Immigrants who are dumb, blind, or otherwise physically defective, unless in the opinion of a Board of Inquiry or officer acting as such they have sufficient money, or have such profession, occupation, trade, employment or other legitimate mode of earning a living that they are not liable to become a public charge or unless they belong to a family accompanying them or already in Canada and which gives security satisfactory to the Minister against such immigrants becoming a public charge;
- (d) Persons who have been convicted of, or admit having committed, any crime involving moral turpitude;
- (e) Prostitutes and women and girls coming to Canada for any immoral purpose and pimps or persons living on the avails of prostitution;
- (f) Persons who procure or attempt to bring into Canada prostitutes or women or girls for the purpose of prostitution or other immoral purpose;
- (g) Professional beggars or vagrants;
- (h) Immigrants to whom money has been given or loaned by any charitable organization for the purpose of enabling them to qualify for landing in Canada under this Act, or whose passage to Canada has been paid wholly or in part by any charitable organization, or out of public moneys, unless it is shown that the authority in writing of the Deputy Minister, or in case of persons coming from Europe, the authority in writing of the assistant Superintendent of Immigration for Canada, in London, has been obtained for the landing in Canada of such persons, and that such authority has been acted upon within a period of sixty days thereafter;
- (i) Persons who do not fulfil, meet or comply with the conditions and requirements of any regulations which for the time being are in force and applicable to such persons under this Act;
- (j) Persons who in the opinion of the Board of Inquiry or the officer in charge at any port of entry are likely to become a public charge;
- (k) Persons of constitutional psychopathic inferiority;
- (l) Persons with chronic alcoholism;

## PROHIBITED CLASSES—concluded.

- (m) Persons not included within any of the foregoing prohibited classes, who upon examination by a medical officer are certified as being mentally or physically defective to such a degree as to affect their ability to earn a living;
- (n) Persons who believe in or advocate the overthrow by force or violence of the Government of Canada or of constituted law and authority, or who disbelieve in or are opposed to organized government, or who advocate the assassination of public officials, or who advocate or teach the unlawful destruction of property;
- (o) Persons who are members of or affiliated with any organization entertaining or teaching disbelief in or opposition to organized government, or advocating or teaching the duty, necessity, or propriety of the unlawful assaulting or killing of any officer or officers either of specific individuals or of officers generally, of the Government of Canada or of any other organized government, because of his or their official character, or advocating or teaching the unlawful destruction of property;
- (q) Persons guilty of espionage with respect to His Majesty or any of His Majesty's allies;
- (r) Persons who have been found guilty of high treason or treason or of conspiring against His Majesty, or of assisting His Majesty's enemies in time of war, or of any similar offence against any of His Majesty's allies;
- (s) Persons who at any time within a period of ten years from the first day of August, one thousand nine hundred and fourteen, were deported from any part of His Majesty's dominions or from any allied country on account of treason or of conspiring against His Majesty, or of any similar offence in connection with the war against any of the allies of His Majesty;
- (t) On and after the first day of July, one thousand nine hundred and nineteen, in addition to the foregoing "prohibited classes", the following persons shall also be prohibited from entering or landing in Canada:—Persons over fifteen years of age, physically capable of reading who cannot read the English or French language or some other language or dialect: Provided that any admissible person or any person heretofore or hereafter legally admitted, or any citizen of Canada, may bring in or send for his father or grandfather, over fifty-five years of age, his wife, his mother, his grandmother or his unmarried or widowed daughter, if otherwise admissible, whether such relative can read or not, and such relative shall be permitted to enter; for the purpose of ascertaining whether aliens can read, the immigration officer shall use slips of uniform size prepared by direction of the Minister, each containing not less than thirty and not more than forty words in ordinary use printed in plainly legible type in the language or dialect the person may designate as the one in which he desires the examination to be made, and he shall be required to read the words printed on the slip in such language or dialect; but the provisions of this subsection shall not apply to Canadian citizens and persons who have Canadian domicile, to persons in transit through Canada, or to such persons or classes of persons as may from time to time be approved by the Minister.
- (u) Members of a family (including children over as well as under 18 years of age) accompanying a person who has been rejected, unless in the opinion of the Board of Inquiry no hardship would be involved by separation of the family."

The Immigration Act provides for the rejection and deportation of immigrants belonging to the prohibited classes, and also for the deportation of those who become undesirables within five years after legal entry.

The operation of the above regulations is illustrated in Tables 12 and 13, which give the numbers of immigrants rejected on applying for admission and those deported after admission, the causes of such rejection or deportation, and the nationalities of those deported, for each of the 12 fiscal years ended 1923 to 1934, together with the totals for the 20 fiscal years 1903-22 and the 32 fiscal years from 1903 to 1934 inclusive.

**12.—Rejections of Immigrants upon Arrival at Ocean Ports, by Principal Causes and Nationalities, fiscal years ended 1923-34, with Totals 1903-22 and 1903-34.**

| Item.                    | 1903<br>to<br>1922. | 1923.      | 1924.      | 1925.        | 1926.      | 1927.      | 1928.      | 1929.      | 1930.      | 1931.      | 1932.      | 1933.      | 1934.      | Total,<br>1903-<br>1934. |
|--------------------------|---------------------|------------|------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------------------|
| <b>By Causes—</b>        |                     |            |            |              |            |            |            |            |            |            |            |            |            |                          |
| Medical causes.....      | 5,154               | 37         | 130        | 83           | 40         | 95         | 104        | 94         | 78         | 39         | 26         | 16         | 17         | 5,913                    |
| Civil causes.....        | 10,103              | 595        | 862        | 948          | 226        | 594        | 215        | 266        | 243        | 444        | 298        | 213        | 177        | 15,184                   |
| <b>Totals.....</b>       | <b>15,257</b>       | <b>632</b> | <b>992</b> | <b>1,031</b> | <b>266</b> | <b>689</b> | <b>319</b> | <b>360</b> | <b>321</b> | <b>483</b> | <b>324</b> | <b>229</b> | <b>194</b> | <b>21,097</b>            |
| <b>By Nationalities—</b> |                     |            |            |              |            |            |            |            |            |            |            |            |            |                          |
| British.....             | 2,120               | 98         | 187        | 199          | 109        | 209        | 150        | 154        | 160        | 251        | 180        | 126        | 123        | 4,066                    |
| United States.....       | 305                 | 4          | 6          | 11           | —          | 5          | 2          | 3          | 8          | 6          | 4          | 13         | 11         | 378                      |
| Other.....               | 12,832              | 530        | 799        | 821          | 157        | 475        | 167        | 203        | 153        | 226        | 140        | 90         | 60         | 16,653                   |

**13.—Deportations of Immigrants after Admission, by Principal Causes and by Nationalities, fiscal years ended 1923-34, with Totals 1903-22 and 1903-34.**

| Item.                                  | 1903<br>to<br>1922. | 1923.        | 1924.        | 1925.        | 1926.        | 1927.        | 1928.        | 1929.        | 1930.        | 1931.        | 1932.        | 1933.        | 1934.        | Total,<br>1903-<br>1934. |
|----------------------------------------|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------------|
| <b>By Causes—</b>                      |                     |              |              |              |              |              |              |              |              |              |              |              |              |                          |
| Medical causes.....                    | 4,227               | 282          | 649          | 420          | 410          | 470          | 519          | 650          | 600          | 789          | 697          | 476          | 301          | 10,490                   |
| Public charges.....                    | 6,691               | 679          | 775          | 543          | 506          | 354          | 430          | 444          | 2,106        | 2,245        | 4,507        | 4,916        | 2,991        | 27,187                   |
| Criminality.....                       | 4,529               | 543          | 511          | 520          | 453          | 447          | 426          | 441          | 591          | 868          | 1,006        | 836          | 493          | 11,664                   |
| Other civil causes.....                | 1,247               | 76           | 93           | 58           | 189          | 149          | 257          | 194          | 107          | 200          | 270          | 277          | 250          | 3,367                    |
| Accompanying de-<br>ported persons.... | 355                 | 52           | 78           | 145          | 158          | 165          | 254          | 235          | 559          | 274          | 545          | 626          | 439          | 3,885                    |
| <b>Totals.....</b>                     | <b>17,049</b>       | <b>1,632</b> | <b>2,106</b> | <b>1,686</b> | <b>1,716</b> | <b>1,585</b> | <b>1,886</b> | <b>1,964</b> | <b>3,963</b> | <b>4,376</b> | <b>7,025</b> | <b>7,131</b> | <b>4,474</b> | <b>56,593</b>            |
| <b>By Nationalities—</b>               |                     |              |              |              |              |              |              |              |              |              |              |              |              |                          |
| British.....                           | 8,696               | 888          | 1,377        | 985          | 899          | 808          | 1,047        | 1,083        | 2,983        | 3,099        | 4,248        | 4,251        | 2,718        | 33,082                   |
| United States.....                     | 5,112               | 520          | 417          | 321          | 330          | 351          | 297          | 294          | 228          | 279          | 260          | 331          | 319          | 9,059                    |
| Other.....                             | 3,241               | 224          | 312          | 380          | 487          | 426          | 542          | 587          | 752          | 998          | 2,517        | 2,549        | 1,437        | 14,452                   |

**Juvenile Immigrants.**—Among the most generally acceptable immigrants of recent years were the juveniles of both sexes, many of whom had been trained by highly accredited British organizations for Canadian life before coming to Canada, the boys being taught the lighter branches of farm work, and the girls instructed in domestic occupations. On arrival in Canada the boys were placed on farms, while the girls were placed either in town or country, but the organizations remained the guardians of the children until they had reached maturity and, in addition, the children were subject to efficient and recurrent government inspection until each reached the age of nineteen. This inspection was under the control of the Supervisor of Juvenile Immigration.

Under the British Empire Settlement Agreement the term "children" was applied to boys from 14 to 19 years of age and girls from 14 to 17 migrating to Canada under provincial or approved society auspices. These organizations were assisted by the Oversea Settlement Agreement, which provided free transportation for the boys and girls from the British Isles migrating to Canada under their auspices. On Sept. 23, 1931, the societies concerned were notified that the Dominion Government had decided to discontinue any further assistance of that nature.

The number of such juvenile immigrants to Canada in each year since 1901 is given in Table 14.

**14.—British Juvenile Immigrants, fiscal years ended 1901-34.**

Note.—Juvenile immigrants are of course included in the total number of immigrants recorded elsewhere.

| Fiscal Year. | Juvenile<br>Immi-<br>grants. | Fiscal Year. | Juvenile<br>Immi-<br>grants. | Fiscal Year. | Juvenile<br>Immi-<br>grants. |
|--------------|------------------------------|--------------|------------------------------|--------------|------------------------------|
| 1901.....    | 977                          | 1912.....    | 2,689                        | 1923.....    | 1,184                        |
| 1902.....    | 1,540                        | 1913.....    | 2,642                        | 1924.....    | 2,080                        |
| 1903.....    | 1,979                        | 1914.....    | 2,318                        | 1925.....    | 2,000                        |
| 1904.....    | 2,212                        | 1915.....    | 1,899                        | 1926.....    | 1,862                        |
| 1905.....    | 2,814                        | 1916.....    | 821                          | 1927.....    | 1,741                        |
| 1906.....    | 3,258                        | 1917.....    | 251                          | 1928.....    | 2,070                        |
| 1907.....    | 1,455                        | 1918.....    | —                            | 1929.....    | 3,036                        |
| 1908.....    | 2,375                        | 1919.....    | —                            | 1930.....    | 4,281                        |
| 1909.....    | 2,424                        | 1920.....    | 155                          | 1931.....    | 2,190                        |
| 1910.....    | 2,422                        | 1921.....    | 1,426                        | 1932.....    | 478                          |
| 1911.....    | 2,524                        | 1922.....    | 1,211                        | 1933.....    | 172                          |
|              |                              |              |                              | 1934.....    | 6                            |

<sup>1</sup> Nine months.

**Oriental Immigration.**—The immigration to Canada of Orientals is fundamentally an economic rather than a racial problem, affecting most of all those parts of the country which are nearest to the Orient and the classes which feel their economic position threatened. A record of Oriental immigration since the commencement of the century is given in Table 15.

15.—Record of Oriental Immigrants, fiscal years ended 1901-34.

| Fiscal Year.            | Chinese. | Japanese. | East Indians. | Total. | Fiscal Year.      | Chinese.      | Japanese.     | East Indians. | Total.        |
|-------------------------|----------|-----------|---------------|--------|-------------------|---------------|---------------|---------------|---------------|
| 1901.....               | 2,544    | 6         | —             | 2,550  | 1919.....         | 4,333         | 1,178         | —             | 5,511         |
| 1902.....               | 3,587    | —         | —             | 3,587  | 1920.....         | 544           | 711           | —             | 1,255         |
| 1903.....               | 5,329    | —         | —             | 5,329  | 1921.....         | 2,435         | 532           | 10            | 2,977         |
| 1904.....               | 4,847    | —         | —             | 4,847  | 1922.....         | 1,746         | 471           | 13            | 2,230         |
| 1905.....               | 77       | 354       | 45            | 476    | 1923.....         | 711           | 369           | 21            | 1,101         |
| 1906.....               | 168      | 1,922     | 387           | 2,477  | 1924.....         | 674           | 448           | 40            | 1,162         |
| 1907 <sup>1</sup> ..... | 291      | 2,042     | 2,124         | 4,457  | 1925.....         | —             | 501           | 46            | 547           |
| 1908.....               | 2,234    | 7,601     | 2,623         | 12,458 | 1926.....         | —             | 421           | 62            | 483           |
| 1909.....               | 2,106    | 495       | 6             | 2,607  | 1927.....         | —             | 475           | 60            | 535           |
| 1910.....               | 2,302    | 271       | 10            | 2,583  | 1928.....         | 3             | 478           | 56            | 537           |
| 1911.....               | 5,320    | 437       | 5             | 5,762  | 1929.....         | 1             | 445           | 52            | 498           |
| 1912.....               | 6,581    | 765       | 3             | 7,349  | 1930.....         | —             | 194           | 58            | 252           |
| 1913.....               | 7,445    | 724       | 5             | 8,174  | 1931.....         | —             | 205           | 80            | 285           |
| 1914.....               | 5,512    | 856       | 88            | 6,456  | 1932.....         | —             | 195           | 47            | 242           |
| 1915.....               | 1,258    | 592       | —             | 1,850  | 1933.....         | 1             | 115           | 63            | 179           |
| 1916.....               | 89       | 401       | 1             | 491    | 1934.....         | 2             | 105           | 33            | 140           |
| 1917.....               | 393      | 648       | —             | 1,041  |                   |               |               |               |               |
| 1918.....               | 769      | 883       | —             | 1,652  |                   |               |               |               |               |
|                         |          |           |               |        | <b>Totals....</b> | <b>61,302</b> | <b>24,840</b> | <b>5,938</b>  | <b>92,080</b> |

<sup>1</sup> Nine months.

*Chinese Immigrants.*—Oriental immigration to the Pacific Coast of North America appears to have commenced with the coming of Chinese immigrants about the time of the discovery of gold in California in 1849, and British Columbia is thought to have received its first Chinese immigrants some time before 1870. The original occupations of these immigrants were laundry workers and domestic servants. As early as 1872 Chinese were employed in the coal mines of the province and the Legislature was already considering the imposition of a poll tax on Chinese, the same proposition coming up later in the Dominion Parliament with the design of preventing the employment of Chinese labour in railway construction. A Royal Commission was appointed by the Dominion Government in 1884 to investigate Chinese immigration, and this Commission recommended the imposition of a head tax of \$10 upon Chinese entering Canada, together with registration and special legislation regulating the entry of Chinese domestic servants. This led to the passage of legislation in 1885 (48-49 Vict., c. 71), providing that thereafter Chinese of the labouring class should be required, as a condition of entering Canada, to pay a head tax of \$50 each. On Jan. 1, 1901 (63-64 Vict., c. 32), this tax was increased to \$100, and on Jan. 1, 1904 (3 Edw. VII, c. 8), after another Royal Commission had reported on this matter, the head tax was further increased to \$500. This tax was paid by all Chinese immigrants except consular officers, merchants and clergymen and their families, tourists, men of science, students and teachers. In spite of this restrictive legislation, the number of Chinese enumerated at the decennial censuses rose from 4,383 in 1881 to 17,312 in 1901, to 27,774 in 1911, to 39,587 in 1921 and 46,519 in 1931. Of this latter number, 43,051 were males and only 3,468 females. Over 58 p.c. of all the Chinese in Canada, *viz.*, 27,139 were residents of British Columbia.



16.—Record of Chinese Immigrants, fiscal years ended Mar. 31, 1912-34, with Totals 1886-1900 and 1901-11.

| Fiscal Year.                          | Paying Tax. | Exempt from Tax. | Percentage of Total Arrivals Admitted, Exempt from Tax. | Registrations for Leave. | Total Revenue. |
|---------------------------------------|-------------|------------------|---------------------------------------------------------|--------------------------|----------------|
|                                       | No.         | No.              | p.c.                                                    | No.                      | \$             |
| Totals (1886 to 1900, Inclusive)..... | 28,637      | 394              | 1.36                                                    | 15,853                   | 1,454,239      |
| Totals (1901 to 1911, Inclusive)..... | 25,160      | 3,655            | 12.69                                                   | 29,409                   | 6,147,260      |
| 1912.....                             | 6,083       | 498              | 7.57                                                    | 4,322                    | 3,049,722      |
| 1913.....                             | 7,078       | 387              | 4.93                                                    | 3,742                    | 3,549,242      |
| 1914.....                             | 5,274       | 288              | 4.32                                                    | 3,450                    | 2,644,593      |
| 1915.....                             | 1,155       | 103              | 8.19                                                    | 4,373                    | 588,124        |
| 1916.....                             | 20          | 69               | 77.53                                                   | 4,064                    | 19,389         |
| 1917.....                             | 272         | 121              | 30.78                                                   | 3,312                    | 140,487        |
| 1918.....                             | 650         | 119              | 15.47                                                   | 2,907                    | 336,757        |
| 1919.....                             | 4,066       | 267              | 6.16                                                    | 3,244                    | 2,069,669      |
| 1920.....                             | 363         | 181              | 33.27                                                   | 5,529                    | 538,479        |
| 1921.....                             | 885         | 1,550            | 63.66                                                   | 6,807                    | 474,332        |
| 1922.....                             | 1,459       | 287              | 16.44                                                   | 7,532                    | 743,032        |
| 1923.....                             | 652         | 59               | 8.30                                                    | 6,682                    | 434,557        |
| 1924.....                             | 625         | 51               | 7.54                                                    | 5,661                    | 334,039        |
| 1925.....                             | —           | —                | —                                                       | 5,992                    | 308,659        |
| 1926.....                             | —           | —                | —                                                       | 3,947                    | 25,969         |
| 1927.....                             | —           | —                | —                                                       | 5,987                    | 14,844         |
| 1928.....                             | 2           | 1                | 33.33                                                   | 5,087                    | 25,679         |
| 1929.....                             | —           | 1                | 100.00                                                  | 5,480                    | 30,795         |
| 1930.....                             | —           | —                | —                                                       | 5,682                    | 30,799         |
| 1931.....                             | —           | —                | —                                                       | 5,783                    | 28,846         |
| 1932.....                             | —           | —                | —                                                       | 4,387                    | 11,584         |
| 1933.....                             | —           | 1                | 100.00                                                  | 3,626                    | 9,152          |
| 1934.....                             | —           | 2                | 100.00                                                  | 2,156                    | 7,237          |

The Chinese Immigration Act of 1923 (13-14 Geo. V, c. 38),\* limits the entry to or landing in Canada of persons of Chinese origin or descent, irrespective of allegiance or citizenship, to the following classes:

- (a) Members of the diplomatic corps or other government representatives, their suites and their servants, and consuls and consular agents;
- (b) Children born in Canada of parents of Chinese origin or descent, who have left Canada for educational or other purposes, on substantiating their identity to the satisfaction of the controller at the port or place where they seek to enter on their return;
- (c) Merchants as defined by such regulations as the Minister may prescribe; students coming to Canada for the purpose of attending, and while in actual attendance at, any Canadian university or college authorized by statute or charter to confer degrees;
- (d) Persons in transit through Canada;

the last two classes to possess passports issued by the Government of China and endorsed by a Canadian immigration officer. As a result of this legislation no Chinese were admitted to the country as immigrants in the fiscal years ended 1925, 1926 and 1927; three are shown by the above table to have been admitted in 1928, one in 1929, none in 1930, 1931, 1932, one in 1933 and two in 1934.

*Japanese Immigrants.*—Japanese immigration to Canada commenced about 1896, and a total of some 12,000 came in between then and 1900, but at the Census of 1901 the total number enumerated as domiciled in the Dominion was only 4,738; in 1911, 9,021; in 1921, 15,868; in 1931, 23,342—22,205 of these latter being domiciled in British Columbia. The immigration of Japanese was especially active in the fiscal years 1906 to 1908, in which three years a total of 11,565 entered the country. In the latter year an agreement was made with the Japanese Government, under which the latter undertook to limit the number of passports issued to Japanese immigrants to Canada. The statistics of Table 15 show that Japanese immigration has been very restricted since 1929. Only 105 Japanese immigrants entered Canada in 1934.

\*R. S. C. 1927, c. 95.  
87473—15

*East Indian Immigrants.*—East Indian immigration to Canada, like Japanese, is shown by Table 15 to have been negligible down to 1907, when no fewer than 2,124 East Indian immigrants arrived. However, as a consequence of the operation of the Immigration Regulations, East Indian immigration has for years been comparatively small. A resolution of the Imperial War Conference of 1918 declared that "it is the inherent function of the Governments of the several communities of the British Commonwealth that each should enjoy complete control of the composition of its own population by means of restriction on immigration from any of the other communities". However, it was recommended that East Indians, already permanently domiciled in other British countries, should be allowed to bring in their wives and minor children. In the ten-year period ended Mar. 31, 1934, a total of 556 East Indians, many of them women and children, were admitted to Canada.

**Expenditures on Immigration.**—The sums expended by the Dominion Government on immigration in each of the fiscal years ended 1868 to 1934 inclusive, as stated in the Public Accounts issued annually by the Department of Finance, are shown in Table 17.

**17.—Expenditures on Immigration in the fiscal years ended June 30, 1868-1906 and Mar. 31, 1907-34.**

(Compiled from the Public Accounts.)

| Year.     | \$      | Year.     | \$      | Year.                   | \$        | Year.             | \$                     |
|-----------|---------|-----------|---------|-------------------------|-----------|-------------------|------------------------|
| 1868..... | 36,050  | 1885..... | 423,861 | 1902.....               | 494,842   | 1919.....         | 1,112,079              |
| 1869..... | 26,952  | 1886..... | 257,355 | 1903.....               | 642,914   | 1920.....         | 1,388,185              |
| 1870..... | 55,966  | 1887..... | 341,236 | 1904.....               | 744,788   | 1921.....         | 1,688,961              |
| 1871..... | 54,004  | 1888..... | 244,789 | 1905.....               | 972,357   | 1922.....         | 2,052,371              |
| 1872..... | 109,954 | 1889..... | 202,499 | 1906.....               | 842,668   | 1923.....         | 1,987,745              |
| 1873..... | 265,718 | 1890..... | 110,092 | 1907 <sup>1</sup> ..... | 611,201   | 1924.....         | 2,417,374 <sup>2</sup> |
| 1874..... | 291,297 | 1891..... | 181,045 | 1908.....               | 1,074,697 | 1925.....         | 2,823,920 <sup>2</sup> |
| 1875..... | 278,777 | 1892..... | 177,605 | 1909.....               | 979,326   | 1926.....         | 2,328,931 <sup>2</sup> |
| 1876..... | 338,179 | 1893..... | 180,677 | 1910.....               | 960,676   | 1927.....         | 2,338,992              |
| 1877..... | 309,353 | 1894..... | 202,235 | 1911.....               | 1,079,130 | 1928.....         | 2,704,698              |
| 1878..... | 154,351 | 1895..... | 195,653 | 1912.....               | 1,365,000 | 1929.....         | 2,631,967              |
| 1879..... | 186,403 | 1896..... | 120,199 | 1913.....               | 1,427,112 | 1930.....         | 2,757,331              |
| 1880..... | 161,213 | 1897..... | 127,438 | 1914.....               | 1,893,298 | 1931.....         | 2,255,249              |
| 1881..... | 214,261 | 1898..... | 261,195 | 1915.....               | 1,658,182 | 1932.....         | 1,873,006              |
| 1882..... | 215,339 | 1899..... | 255,879 | 1916.....               | 1,307,480 | 1933.....         | 1,406,031              |
| 1883..... | 373,958 | 1900..... | 434,563 | 1917.....               | 1,181,991 | 1934.....         | 1,155,314              |
| 1884..... | 511,209 | 1901..... | 444,730 | 1918.....               | 1,211,954 | <b>Total.....</b> | <b>59,113,795</b>      |

<sup>1</sup> Nine months.

<sup>2</sup> Includes expenditures on British Empire Exhibition: 1924, \$649,882; 1925, \$599,797; 1926, \$70,661

**Emigration from Canada.** An important factor tending to offset the immigration activities of the past was a movement from Canada to the United States which attained considerable proportions at certain periods. The quota system of immigration regulation, applied by the United States Government against immi-

grants generally, but not against the Canadian born, had the effect of limiting immigration to the United States and thereby encouraging Canadians to enter that country. No record of this movement had ever been kept by the Canadian Government, and, while its seriousness was recognized, its magnitude, as indicated by the United States' returns, was questioned on the ground that these returns did not make allowance for Canadians returning to Canada after a more or less extended period of residence in the United States. The Canadian Department of Immigration and Colonization was convinced that a very considerable return movement was taking place, but, until 1924, no attempt was made to ascertain the exact magnitude of that movement. In that year immigration officers were instructed to take note of Canadians returning to Canada from the United States after having left Canada to reside in that country. The results are tabulated in Table 18.

Another circumstance which has, in the past, occasioned a considerable movement from Canada to the United States has, no doubt, been the practice of Europeans to enter Canada and declare themselves *bona fide* immigrants, with the real intention of entering the United States as soon as the quota restrictions would permit them to do so. The tightening-up of the United States Regulations *re* persons entering the United States from Canada, and the active co-operation of the Canadian Department of Immigration and Colonization in discouraging this traffic, seem to have effectually met this situation.

Table 18 shows the number of Canadians who had gone to the United States for purposes of permanent residence and who returned to Canada during the period from April 1, 1924, to Mar. 31, 1934.

18.—Canadians Returned from the United States, fiscal years ended Mar. 31.  
1925-34.

| Fiscal Year. | Canadian-born Citizens. | British Born who had Acquired Canadian Domicile. | Naturalized Canadian Citizens. | Total. | Fiscal Year. | Canadian-born Citizens. | British Born who had Acquired Canadian Domicile. | Naturalized Canadian Citizens. | Total. |
|--------------|-------------------------|--------------------------------------------------|--------------------------------|--------|--------------|-------------------------|--------------------------------------------------|--------------------------------|--------|
| 1925....     | 36,473                  | 4,487                                            | 2,815                          | 43,775 | 1930.....    | 26,959                  | 2,030                                            | 841                            | 29,830 |
| 1926....     | 40,246                  | 4,102                                            | 2,873                          | 47,221 | 1931.....    | 26,811                  | 2,111                                            | 1,287                          | 30,209 |
| 1927....     | 49,255                  | 5,326                                            | 2,376                          | 56,957 | 1932.....    | 17,691                  | 1,069                                            | 651                            | 19,411 |
| 1928....     | 35,137                  | 3,280                                            | 1,470                          | 39,887 | 1933.....    | 16,320                  | 757                                              | 548                            | 17,625 |
| 1929....     | 30,008                  | 2,795                                            | 995                            | 33,798 | 1934.....    | 8,366                   | 397                                              | 409                            | 9,172  |

Official returns indicate that the movement of population between the two countries is now definitely toward Canada. According to the official returns of the United States' Government, immigration to that country from Canada in the twelve months ended June 30, 1933, amounted to 6,074. The movement of immigrants from the United States to Canada in the same period amounted to 10,996, and there was also a return movement of 15,267 Canadians—a total of 26,263, or a net balance in favour of Canada of 20,189.

In Table 19 will be found the number of transoceanic passengers entering Canada during the fiscal years ended Mar. 31, 1933 and 1934, by description and classes, together with totals by classes for the years 1926 to 1932. It will be seen that the fiscal year ended 1930 showed the largest number of transoceanic passengers and the 1934 figures are lower than for any other year of the record.

**19.—Returning Canadians and Other Non-Immigrants Entering Canada via Ocean Ports, by Class of Travel, fiscal years ended Mar. 31, 1933 and 1934, with Totals for fiscal years 1926-32.**

NOTE.—Figures in this table cover transoceanic passengers only. Details for 1926 to 1932 will be found in previous editions of the Year Book.

| Fiscal Year and Item.              | Transoceanic Passengers. |               |               |               |
|------------------------------------|--------------------------|---------------|---------------|---------------|
|                                    | Saloon.                  | Cabin Class.  | Third Class.  | Totals.       |
| <b>Totals, 1926</b> .....          | <b>7,646</b>             | <b>22,460</b> | <b>18,900</b> | <b>49,006</b> |
| <b>Totals, 1927</b> .....          | <b>8,821</b>             | <b>20,110</b> | <b>22,862</b> | <b>51,793</b> |
| <b>Totals, 1928</b> .....          | <b>5,695</b>             | <b>17,137</b> | <b>25,728</b> | <b>48,560</b> |
| <b>Totals, 1929</b> .....          | <b>5,372</b>             | <b>16,127</b> | <b>28,379</b> | <b>50,378</b> |
| <b>Totals, 1930</b> .....          | <b>6,473</b>             | <b>15,270</b> | <b>32,050</b> | <b>53,793</b> |
| <b>Totals, 1931</b> .....          | <b>5,671</b>             | <b>14,130</b> | <b>29,390</b> | <b>49,191</b> |
| <b>Totals, 1932</b> .....          | <b>5,241</b>             | <b>10,090</b> | <b>26,285</b> | <b>41,616</b> |
| <b>FISCAL YEAR 1933.</b>           |                          |               |               |               |
| Canadian born returning.....       | 2,088                    | 3,250         | 6,458         | 11,796        |
| British born returning.....        | 415                      | 1,477         | 12,736        | 14,628        |
| British naturalized returning..... | 243                      | 366           | 1,399         | 2,008         |
| Alien nationals returning.....     | 72                       | 145           | 2,118         | 2,335         |
| Non-immigrant tourist.....         | 1,310                    | 2,696         | 3,828         | 7,834         |
| " professional.....                | 44                       | 101           | 120           | 265           |
| " student.....                     | 34                       | 22            | 32            | 88            |
| " theatrical.....                  | -                        | 36            | 2             | 38            |
| " in transit.....                  | 878                      | 887           | 467           | 2,232         |
| " Diplomatic Corps.....            | 161                      | 94            | 46            | 301           |
| <b>Totals, 1933</b> .....          | <b>5,245</b>             | <b>9,074</b>  | <b>27,206</b> | <b>41,525</b> |
| <b>FISCAL YEAR 1934.</b>           |                          |               |               |               |
| Canadian born returning.....       | 2,000                    | 3,039         | 5,837         | 10,876        |
| British born returning.....        | 421                      | 1,547         | 10,229        | 12,197        |
| British naturalized returning..... | 200                      | 390           | 1,527         | 2,117         |
| Alien nationals returning.....     | 43                       | 112           | 1,758         | 1,913         |
| Non-immigrant tourist.....         | 1,289                    | 2,481         | 3,385         | 7,155         |
| " professional.....                | 5                        | 47            | 27            | 79            |
| " student.....                     | -                        | 3             | 5             | 8             |
| " theatrical.....                  | -                        | -             | 9             | 9             |
| " in transit.....                  | 1,000                    | 891           | 481           | 2,372         |
| " Diplomatic Corps.....            | 8                        | 14            | 1             | 23            |
| <b>Totals, 1934</b> .....          | <b>4,966</b>             | <b>8,524</b>  | <b>23,259</b> | <b>36,749</b> |

## Section 2.—Colonization Activities.

Contemporaneously with the sharp reduction in immigration disclosed by preceding tables, due to the policy of limiting immigration in accordance with the requirements of the country, a new and important development has occurred in the form of colonization activities within Canada. It was found that there were many families and individuals in the cities of the Dominion with farm experience who had been attracted to industrial centres in more prosperous times and would now regard with favour the opportunity of an assured subsistence on the land. In many cases families were still in possession of some capital but were in fear of its gradual depletion through unemployment. It was believed that many such families and individuals would return to the land without financial assistance if they could be guided to suitable opportunities. In order to promote such settlement, co-ordination of the activities of the Land Settlement Branch of the Department of Immigration and Colonization and branches of the Canadian National and Canadian Pacific Railways doing similar work was arranged, a committee was organized with representatives of the three interests mentioned, and an active program of land settlement within the Dominion was undertaken. To establish contact with families or individuals



desiring to return to the land, a small campaign of classified advertising in the daily press was conducted by the committee. There was no suggestion of financial assistance but there was the offer of dependable and disinterested advice and service in placing such families and individuals in touch with opportunities for farm settlement or farm employment. From Oct. 1, 1930, to Sept. 30, 1934, these activities resulted in the recorded placement in farm employment in Canada of 32,602 single men, and in the settlement on farms of 14,748 families, all of this without any expenditure of public funds in the form of financial assistance to such settlers. On the basis of five persons to the family the total landward movement resulting from these activities represented 106,343 persons. In addition to the co-ordinated activities of the two railways and the Department of Immigration and Colonization, several of the provinces carried on effective land settlement movements.

The colonization activities above described disclosed the fact that there were in the cities many families eager to gain a subsistence on the land who could not qualify for such settlement because of lack of capital. As a contribution toward relieving this situation the Dominion Government, in May, 1932, decided to bear a portion of the cost of settlement on the land of selected families who could qualify for such assistance in all localities where the province and municipality concerned were prepared to make a similar contribution, and an agreement to that effect was offered to each of the Provincial Governments. The stipulations of this agreement may be summarized as follows:—

The Dominion Government would contribute one-third of an amount not to exceed \$600 per family for the purpose of providing a measure of self-sustained relief to families who would otherwise be in receipt of direct relief, by placing such families on the land, the remaining two-thirds of the expenditure to be contributed by the province and the municipality concerned as might be decided between them. The Dominion Government contribution was to be regarded as a non-recoverable expenditure. The total expenditure on behalf of any one family during the first year was not to exceed \$500 for all purposes inclusive of subsistence and establishment, a minimum amount of \$100 being withheld to provide subsistence if necessary during the second year. No part of the above-mentioned expenditure was to be used for the purpose of acquiring or renting land.

It was stipulated that all families who might be assisted under the terms of this agreement should be residents of Canada and should be selected from those who would otherwise be in receipt of direct relief, the selection of families to be made without discrimination by reason of political affiliation, race, or religious views.

The province was to be responsible for administration of relief settlement, including the location and inspection of suitable farms, and the selection of families who should be physically fit and qualified in other respects. Expenses of administration were to be paid by the province, and no part of the cost of administration and supervision was to be deducted from the maximum amount of \$600 set aside for subsistence and settlement of each family. Disbursements of funds to the families assisted were to be made by the province, which was required to set up an Advisory Committee, including representatives of the Dominion Land Settlement Branch, the Colonization Branch of the Canadian Pacific Railway, and the Colonization Branch of the Canadian National Railways.

Under this plan, in the period from June 1, 1932, to Sept. 30, 1934, a total of 3,744 families consisting of 19,635 persons have been settled on farms. Under the two plans above described, the total landward movement since October, 1930, has, therefore, exceeded 125,000 persons.

## CHAPTER VII.—SURVEY OF PRODUCTION.

**The Definition of "Production".**—The term "production" is used here in its popular acceptance, *i.e.*, as including such processes as the growing of crops, extraction of minerals, capture of fish, conversion of water power into electrical current, manufacturing, etc.—in economic phrase, the creation of "form utilities". It does not include various activities which are no less "productive" in a broad and strictly economic sense, such as (*a*) transportation, refrigeration, merchandising etc., which add to commodities already worked up into form the further utilities of "place", "time" and "possession", and (*b*) personal and professional services, such as those of the teacher and the doctor, which are not concerned with commodities at all, but are nevertheless essential to any civilized society—representing, in economic language, the creation of "service utilities".

As showing the importance of these latter activities, it may be pointed out, for comparison with the figures in the accompanying tables, that steam railway gross earnings in 1932, the latest year for which complete statistics of production are available, amounted to \$293,390,415, street railway gross earnings to \$43,339,381, and telephone and telegraph earnings to \$70,066,067, all of which, from a broad point of view, may be considered as "production". It may be further noted that, according to the Census of 1931, out of 3,927,591 persons of ten years of age and over recorded as gainfully occupied, 306,273 were engaged in transportation activities, 387,315 in trade, 92,317 in finance and 767,705 in service occupations. While 81,610 of the latter were engaged in custom and repair work, the value of which is included in the survey of production, the value of the "production" of the remaining 1,472,000 gainfully occupied persons in the four occupational groups just mentioned would not appear to be included to any extent in the survey of production. Then, on the assumption that 1,472,000 gainfully occupied persons whose production is not included in the survey were no less "productive" in the broad sense of the term than the remaining 2,455,591\* gainfully occupied persons (of whom they amounted to practically 60 p.c.), 60 p.c. should be added to our total net production to arrive at an estimate of the grand total value of the "production" of all gainfully occupied Canadians. Since the net value of production of commodities as stated in the survey was \$2,105,000,000 in 1932, the grand total money value of the productive activities of the gainfully occupied population of Canada in the same year may be estimated at 160 p.c. of the above figure or \$3,368,000,000 or say \$3,370,000,000 in round figures.

**"Gross" and "Net" Production.**—The values of products are shown under two headings, namely, "gross" and "net". "Gross" production shows the total value of all the individual commodities produced under a particular heading. "Net" production represents an attempt to eliminate the value of materials consumed in the productive process. For purposes of ordinary economic discussion, the net figures should be used in preference to the gross, because of the large amount of duplication which the latter includes on account of the necessity of making the individual items self-contained. The tables show the total values of all commodities produced in Canada in the latest years; the values are given as in the producers' hands.

\* This figure includes 169,263 gainfully occupied persons whose industries were not specified but who were mainly general labourers and office clerks. The products of the labour of these persons were probably mainly included in the survey of production, but here it is assumed that they were all so included.

**Difficulties in Differentiating between the Branches of Production.—**

There is an increasing demand for a survey of production that will differentiate as between the more important branches and at the same time give a purview of the whole which will be free from overlapping. This is somewhat difficult to present with clearness, in view of the varying definitions that attach to industrial groups from different points of view. For example, brick, tile and cement are frequently included in "mineral production" as being the first finished products of commercial value resulting from the productive process; frequently, however, they are regarded as "manufactures" in view of the nature of the productive process—either allocation being correct according to the point of view. In the summing up, production in such industries is regarded as primary production and also as secondary production, but the duplication is eliminated in the grand totals.

**Branches of Production.**—The primary industries of agriculture, fishing, forestry, mining, etc., are separated in this statement from the secondary or manufacturing processes. The close association between the two and the overlappings that are apt to occur have already been pointed out. As further explaining the procedure that has been followed in drawing up the tables, the following notes are appended:—

*Agriculture.*—Dairy factories are included under this heading; farm dairy products (gross) include the milk consumed whole and sold to dairy factories, and the butter, etc., made on the farm.

*Forestry.*—Forestry production is understood to consist of the operations in the woods as well as those of sawmills and pulp-mills, the latter being limited to the making of first products such as lumber, lath, shingles, pulp and cooperage stock.

*Fur Production.*—The item of fur production is limited to the wild-life production. To obtain a total of the peltries produced in Canada, it would be necessary to add to the wild-life output the production of pelts on fur farms, which is included in the total for "agriculture".

*Mineral Production.*—Under mineral production many items are included that are also allocated to "manufactures". Considerable overlapping exists as between "mineral production" on the one hand and "manufactures" on the other. The Bureau presents the detailed statistics of these groups (the chief of which are smelters, brick, cement, lime, etc.) in its reports on mineral production, since their product is the first to which a commercial value is ordinarily assigned.

*Total Manufactures.*—The figure given for this heading is a comprehensive one including the several items listed with the extractive industries above, though also frequently regarded as "manufactures", viz., dairy factories, fish-canning and curing, sawmills, pulp-mills, shipbuilding and certain mineral industries. This duplication is eliminated from the grand totals as listed in Table 5. The figures given for total manufactures are inclusive of the value of the products of all manufacturing processes closely associated with the extractive industries that are frequently included under this heading; hence it is obvious that the grand total is equivalent to an amount obtained by adding the values for total manufactures and for the other eight divisions, and deducting the duplications as shown in the foot-notes to the respective tables.



## Section 1.—The Leading Branches of Production in 1932.

The total net value of production, as estimated for 1932 by the Dominion Bureau of Statistics, on the basis of statistics compiled by its various branches, was \$2,104,900,000. This was less than for any year since 1920, when this survey was instituted. Decreases from the 1931 level were shown in every branch of production except agriculture and the electric power industry and were especially heavy for construction, forestry and manufacturing. Farm yields were generally higher than in 1932, but the average price of farm products was less than in any year in the two preceding decades. The resulting values of farm crops produced in 1932 were less than in any year since 1914.

Manufacturing continued to operate at a comparatively low level of capacity. The value added by the manufacturing process showed a decline of over 20 p.c. from the 1931 level.

Total value of production was 16 p.c. less than in 1931, 35 p.c. less than in 1930, 47 p.c. less than in 1929, 49 p.c. less than in 1928, 46 p.c. less than in 1927 and 42 p.c. less than in 1926. The physical volume of production did not decline to anything like the same extent.

**The Main Branches of Production in 1932.**—Confining our analysis to the net production of commodities, "net" production signifying the value left in the producers' hands after the elimination of the value of the materials consumed in the production process, it is observed that, owing to the conditions of depression prevailing in 1932, most of the main branches showed declines from the preceding year. The net output of central electric stations, however, showed an improvement, the value in 1932 being \$128,420,000 compared with \$122,311,000, an increase of 5 p.c. Forestry, combining woods operations and the value added by the manufacturing process in the sawmilling and pulp industries, showed a drop of 33.5 p.c., while mineral production at \$191,228,000 recorded a decline of 16.1 p.c. The revenues of the fisheries and of trapping showed declines of 14.9 p.c. and 18.6 p.c., respectively.

Among the branches of secondary production, construction showed the heaviest proportional decline of 57.9 p.c. Manufactures was reduced by 20.7 p.c. and custom and repair production was down by 19.7 p.c. compared with 1931.

**Relative Importance of the Several Branches of Production.**—Owing to the increase in agricultural revenue in 1932, the lead of manufactures over agriculture, which was 173.9 p.c. in 1931, decreased to 107.0 p.c. in 1932. Agricultural production in 1932 represented 26.9 p.c. of the net output of all branches, while the total value added by the manufacturing processes was 55.6 p.c. of the total net production. However, a number of industries listed under manufactures are also included in the several extractive industries with which they are associated. Eliminating this duplication, the output of the manufacturing industries not elsewhere included was 43.2 p.c. of the total net production. Mining held third place in 1932 with a percentage of 9.1. Forestry was in fourth place, with a percentage of 6.3, followed by electric power with a percentage of 6.1. The construction group in 1932 had an output of 4.1 p.c. of the total net production. Repair work, fisheries and trapping followed with percentages, in 1932, of 2.7, 1.2 and 0.3, respectively.

A summary of gross and net value of production is given by industries for the years from 1928 to 1932 in Table 1; a detailed itemized statement of the net value of production in 1930, 1931 and 1932, is given in Table 2.



## 1.—Gross and Net Values of Production in Canada, by Industries, 1928-32.

## GROSS VALUES OF PRODUCTION.

| Division of Industry.                | 1928.                | 1929.                | 1930.                | 1931.                | 1932.                |
|--------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                      | \$                   | \$                   | \$                   | \$                   | \$                   |
| Agriculture <sup>1</sup> .....       | 1,905,311,580        | 1,729,821,129        | 1,346,363,659        | 880,053,884          | 818,549,921          |
| Forestry.....                        | 473,559,767          | 495,592,847          | 440,352,351          | 288,674,002          | 195,025,352          |
| Fisheries.....                       | 70,668,167           | 70,580,223           | 63,743,353           | 39,654,811           | 33,665,822           |
| Trapping.....                        | 16,603,827           | 16,356,447           | 9,875,955            | 8,744,962            | 7,118,021            |
| Mining.....                          | 308,250,712          | 352,266,692          | 325,184,050          | 276,365,319          | 228,948,172          |
| Electric power.....                  | 143,692,455          | 157,499,385          | 164,833,913          | 163,321,565          | 171,630,682          |
| <b>Totals, Primary Production.</b>   | <b>2,918,086,508</b> | <b>2,822,116,723</b> | <b>2,350,353,281</b> | <b>1,656,814,543</b> | <b>1,454,937,970</b> |
| Construction.....                    | 488,378,000          | 594,144,825          | 456,995,000          | 315,482,000          | 132,872,400          |
| Custom and repair <sup>2</sup> ..... | 129,085,000          | 143,877,000          | 123,000,000          | 97,000,000           | 78,000,000           |
| Manufactures <sup>3</sup> .....      | 3,769,850,364        | 4,063,987,279        | 3,428,970,628        | 2,698,461,862        | 2,126,194,555        |
| <b>Totals, Secondary Production</b>  | <b>4,387,313,364</b> | <b>4,802,009,104</b> | <b>4,008,965,628</b> | <b>3,110,943,862</b> | <b>2,337,066,955</b> |
| <b>Grand Totals.....</b>             | <b>6,574,619,365</b> | <b>6,846,171,400</b> | <b>5,601,880,583</b> | <b>4,157,733,325</b> | <b>3,366,510,562</b> |

## NET VALUES OF PRODUCTION.

| Division of Industry                         | 1928.                | 1929.                | 1930.                | 1931.                | 1932.                | P.c. of<br>Net value<br>of Pro-<br>duction,<br>1932. |
|----------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------------------------------------------------------|
|                                              | \$                   | \$                   | \$                   | \$                   | \$                   | p.c.                                                 |
| Agriculture.....                             | 1,501,271,463        | 1,034,129,824        | 758,791,743          | 538,192,000          | 565,417,704          | 26.86                                                |
| Forestry.....                                | 323,654,008          | 337,649,078          | 303,145,169          | 200,650,269          | 133,401,946          | 6.34                                                 |
| Fisheries.....                               | 55,050,973           | 55,518,521           | 47,804,216           | 30,517,306           | 25,957,109           | 1.23                                                 |
| Trapping.....                                | 16,603,827           | 16,356,447           | 9,875,955            | 8,744,962            | 7,118,021            | 0.34                                                 |
| Mining.....                                  | 274,989,487          | 310,850,246          | 279,873,578          | 228,029,018          | 191,228,225          | 9.08                                                 |
| Electric power.....                          | 112,326,819          | 122,883,446          | 126,038,145          | 122,310,730          | 128,420,233          | 6.10                                                 |
| <b>Totals, Primary<br/>Production.....</b>   | <b>2,283,896,577</b> | <b>1,875,387,562</b> | <b>1,525,528,806</b> | <b>1,128,444,285</b> | <b>1,051,543,238</b> | <b>49.95</b>                                         |
| Construction.....                            | 319,164,000          | 386,709,398          | 297,046,750          | 205,063,300          | 86,367,060           | 4.10                                                 |
| Custom and repair <sup>2</sup> .....         | 82,482,000           | 99,618,000           | 85,200,000           | 71,000,000           | 57,000,000           | 2.71                                                 |
| Manufactures <sup>3</sup> .....              | 1,819,046,025        | 1,997,350,365        | 1,761,986,726        | 1,474,581,851        | 1,170,225,872        | 55.60 <sup>4</sup>                                   |
| <b>Totals, Secondary<br/>Production.....</b> | <b>2,220,692,025</b> | <b>2,483,677,763</b> | <b>2,144,233,476</b> | <b>1,750,645,151</b> | <b>1,313,592,932</b> | <b>62.41<sup>4</sup></b>                             |
| <b>Grand Totals....</b>                      | <b>4,122,509,882</b> | <b>3,946,609,211</b> | <b>3,216,746,735</b> | <b>2,500,203,902</b> | <b>2,104,908,301</b> | <b>100.00</b>                                        |

<sup>1</sup> The gross value of agricultural production here exceeds that given in Chapter VIII, Agricultural Statistics of this edition of the Year Book, by the amount paid to patrons of dairy factories for milk and cream.

<sup>2</sup> Statistics of custom and repair industries were not collected after 1922, and the totals for that year were repeated in 1923 and 1924. The totals for 1926 to 1932 were estimated according to the percentage change in the data for manufacturing.

<sup>3</sup> The item "manufactures" includes dairy factories, sawmills, pulp-mills, fish-canning and-curing, shipbuilding, electric power and certain mineral industries also included under other headings. This duplication, amounting in 1928 to a gross of \$730,780,507 and a net of \$382,078,720, in 1929 to a gross of \$777,954,427 and a net of \$412,456,114, in 1930 to a gross of \$757,438,326 and a net of \$453,015,547, in 1931 to a gross of \$610,025,080 and a net of \$378,885,534, and in 1932 to a gross of \$425,494,363 and a net of \$260,227,869, is eliminated from the grand totals.

<sup>4</sup> The proportion of manufactures, freed from all duplication (as explained in note 3) to the grand total of net production was 43.24 p.c., and, under like conditions, the proportion of all secondary production to the grand total of net production was 50.05 p.c.

## 2.—Detailed Itemized Statement of the Net Values of Production in Canada during 1930, 1931 and 1932.

| Classification.                                          | Net Production.      |                      |                      |
|----------------------------------------------------------|----------------------|----------------------|----------------------|
|                                                          | 1930.                | 1931.                | 1932.                |
|                                                          | \$                   | \$                   | \$                   |
| <b>PRIMARY PRODUCTION.</b>                               |                      |                      |                      |
| Totals, Agricultural Production.....                     | 758,791,743          | 538,192,000          | 565,417,704          |
| Forestry—                                                |                      |                      |                      |
| Logs and bolts.....                                      | 75,563,041           | 32,889,204           | 18,029,759           |
| Pulpwood.....                                            | 67,529,612           | 51,973,243           | 30,627,632           |
| Railway ties.....                                        | 5,038,899            | 4,144,169            | 1,353,664            |
| All other forest products.....                           | 58,721,942           | 52,117,314           | 42,095,197           |
| Totals, Forestry Operations.....                         | 206,853,494          | 141,123,930          | 92,106,252           |
| Sawmill products.....                                    | 48,186,223           | 25,390,219           | 15,101,071           |
| Pulp-mill products.....                                  | 48,105,452           | 34,136,120           | 26,194,623           |
| Totals, Milling Operations.....                          | 96,291,675           | 59,526,339           | 41,295,694           |
| Totals, Forestry Production.....                         | 303,145,169          | 200,650,269          | 133,401,946          |
| Fisheries—                                               |                      |                      |                      |
| Fish sold fresh by fishermen.....                        | 13,823,526           | 9,245,309            | 7,351,920            |
| Sales to canning and curing establishments.....          | 15,939,137           | 9,137,505            | 7,708,713            |
| Fish domestically cured.....                             | 1,007,382            | 2,445,104            | 1,921,064            |
| Fish-canning and curing establishments (values added)... | 17,034,171           | 9,689,388            | 8,975,412            |
| Totals, Fisheries Production.....                        | 47,804,216           | 30,517,306           | 25,957,109           |
| Trapping—                                                |                      |                      |                      |
| Fur production (wild life).....                          | 9,875,955            | 8,744,962            | 7,118,021            |
| Mineral Production—                                      |                      |                      |                      |
| Smelting.....                                            | 55,635,664           | 50,229,454           | 38,722,129           |
| Other metallies.....                                     | 87,108,100           | 68,294,985           | 73,319,634           |
| Fuels.....                                               | 68,184,485           | 54,453,143           | 49,047,342           |
| Salt.....                                                | 1,694,631            | 1,904,149            | 1,947,551            |
| Other non-metallies.....                                 | 13,523,233           | 8,888,992            | 5,793,286            |
| Clay products.....                                       | 10,593,678           | 7,841,288            | 3,650,218            |
| Cement.....                                              | 17,713,067           | 15,826,243           | 6,930,721            |
| Lime.....                                                | 4,038,698            | 2,764,415            | 2,394,537            |
| Other structural materials.....                          | 21,382,122           | 17,726,349           | 9,422,807            |
| Totals, Mineral Production.....                          | 279,873,578          | 228,029,018          | 191,228,225          |
| Electric light and power <sup>1</sup> .....              | 126,038,145          | 122,310,730          | 128,420,233          |
| Totals, Primary Production.....                          | 1,525,528,806        | 1,128,444,285        | 1,051,543,238        |
| <b>SECONDARY PRODUCTION.</b>                             |                      |                      |                      |
| Totals, Construction.....                                | 297,046,750          | 205,063,300          | 86,367,060           |
| Custom and repair.....                                   | 85,200,000           | 71,000,000           | 57,000,060           |
| Manufactures—                                            |                      |                      |                      |
| Vegetable products.....                                  | 314,513,326          | 274,474,901          | 211,600,763          |
| Animal products.....                                     | 132,212,467          | 106,059,948          | 95,623,235           |
| Textiles.....                                            | 177,250,868          | 163,967,295          | 144,942,998          |
| Wood and paper.....                                      | 368,350,618          | 291,858,015          | 227,251,810          |
| Iron and steel.....                                      | 288,032,111          | 203,970,382          | 123,542,436          |
| Non-ferrous metals.....                                  | 138,720,310          | 116,519,624          | 84,176,377           |
| Non-metallic minerals.....                               | 109,606,153          | 102,486,140          | 73,407,459           |
| Chemicals.....                                           | 71,804,599           | 64,745,355           | 60,002,845           |
| Miscellaneous, including central electric stations.....  | 161,496,274          | 150,500,191          | 149,677,949          |
| Totals, Manufactures <sup>2</sup> .....                  | 1,761,986,726        | 1,474,581,851        | 1,170,225,872        |
| Totals, Secondary Production.....                        | 2,144,233,476        | 1,750,645,151        | 1,313,592,932        |
| <b>Grand Totals.....</b>                                 | <b>3,216,746,735</b> | <b>2,500,203,902</b> | <b>2,104,908,301</b> |

<sup>1</sup> This item is exclusive of duplication involved in purchases of power by reporting companies.

<sup>2</sup> For footnote 2 see foot of p. 235.

## Section 2.—The Provincial Distribution of Production.

The trend of net production has exhibited considerable variation. In Prince Edward Island there was a decline from 1920 to 1922, followed by substantial recovery until the high point of 1926 was reached, with an almost steady decline to the low point of 1932. In Nova Scotia there was a decline from the high point of 1920 until 1925, a marked increase in 1926, then through a slight decline to the highest point reached since 1920, in 1928, then a gradual falling-off to the low point of 1932. In New Brunswick the highest point was reached in 1920, the next highest in 1926 and the low in 1932, the trend of production in this province being almost level from 1925 to 1930.

In Quebec the decline in 1921 was very severe. During the subsequent period the chief features were a substantial gain in 1923, a minor recession in 1924, and a marked recovery in 1925, continued until 1929, when a high point of \$1,050,000,000 was reached. From then to 1932 the decline was rapid, the 1932 production of \$558,000,000 being a decrease of nearly 19 p.c. under the 1931 figure. The trend in Ontario was almost parallel, the 1932 production of \$885,000,000 being 18 p.c. under that of the previous year.

In Manitoba the course of production was most uneven from 1920 to 1926, when for the next two years an increase was registered, culminating in the high of 1928, when goods to the value of \$235,000,000 were produced. Since that time the decline has been rapid, reaching the low value of \$100,000,000 in 1932, this production being 11 p. c. under that of 1931. Saskatchewan exceeded the 1920 production in 1922, 1925 to 1928, when the high point was reached, then registered sharp declines from 1929 to 1931 and in 1932 showed an increase of 42 p.c. over the low point reached in the previous year. The trend in Alberta has not been exactly parallel with that of Saskatchewan, the high point in this province having been reached in 1927, since when a steady decline has occurred, culminating in the low values shown in 1932, when the decline was, however, less than 5 p.c. under the preceding year.

In British Columbia steady increases were registered from 1922 to 1929, with a rapid decline until 1932, when a decline was shown of 23 p.c. under the previous year.

The values of gross and net production are given by provinces for the years 1928 to 1932 in Table 3.

<sup>2</sup> The item "total manufactures" on page 234 includes the following industries, also shown under other heads, the amount of the duplication being deducted from the grand totals:—

| Classification.                                     | Net Production. |               |             |
|-----------------------------------------------------|-----------------|---------------|-------------|
|                                                     | 1930.           | 1931.         | 1932.       |
|                                                     | \$              | \$            | \$          |
| Dairy factories.....                                | 43,541,731      | 34,926,701    | 30,446,292  |
| Sawmills and pulp-mills.....                        | 181,868,214     | 136,176,495   | 41,295,694  |
| Fish-canning and curing.....                        | 11,891,819      | 6,906,059     | 6,420,494   |
| Mineral industries.....                             | 89,675,638      | 78,565,549    | 53,645,156  |
| Electric power.....                                 | 126,038,145     | 122,310,730   | 128,420,233 |
| Totals.....                                         | 453,015,547     | 378,885,534   | 260,227,869 |
| Totals, Manufactures (duplications eliminated)..... | 1,308,971,179   | 1,095,696,317 | 909,998,003 |

## 3.—Gross and Net Values of Production in Canada, by Provinces, 1928-32.

## GROSS VALUES OF PRODUCTION.

| Province.                 | 1928.                | 1929.                | 1930.                | 1931.                | 1932.                |
|---------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                           | \$                   | \$                   | \$                   | \$                   | \$                   |
| Prince Edward Island..... | 28,925,960           | 32,807,542           | 25,436,519           | 17,278,144           | 15,943,467           |
| Nova Scotia.....          | 204,211,630          | 199,016,575          | 174,266,197          | 136,853,405          | 102,795,156          |
| New Brunswick.....        | 132,957,699          | 141,493,983          | 127,022,481          | 100,055,694          | 84,667,778           |
| Quebec.....               | 1,612,448,740        | 1,770,707,067        | 1,500,303,451        | 1,142,897,391        | 919,858,072          |
| Ontario.....              | 2,813,092,274        | 2,999,318,714        | 2,450,173,078        | 1,832,254,080        | 1,459,572,816        |
| Manitoba.....             | 355,009,130          | 342,731,190          | 273,174,256          | 199,685,515          | 164,911,278          |
| Saskatchewan.....         | 502,850,308          | 432,316,508          | 296,156,731          | 173,336,852          | 172,862,819          |
| Alberta.....              | 439,513,402          | 409,642,138          | 329,898,695          | 255,519,947          | 214,177,072          |
| British Columbia.....     | 480,127,529          | 512,628,119          | 420,984,045          | 295,592,071          | 228,538,264          |
| Yukon.....                | 5,482,693            | 5,509,564            | 4,465,130            | 4,260,226            | 3,183,840            |
| <b>Canada.....</b>        | <b>6,574,619,365</b> | <b>6,846,171,400</b> | <b>5,601,880,583</b> | <b>4,157,733,325</b> | <b>3,366,510,562</b> |

## NET VALUES OF PRODUCTION.

| Province.             | 1928.                | 1929.                | 1930.                | 1931.                | 1932.                | Percent-<br>age of<br>Total<br>Net<br>Value<br>in 1932. |
|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------------------------------------|
|                       | \$                   | \$                   | \$                   | \$                   | \$                   | p.c.                                                    |
| P. E. Island.....     | 23,128,829           | 23,452,390           | 16,635,118           | 11,924,262           | 10,264,666           | 0.49                                                    |
| Nova Scotia.....      | 144,272,367          | 129,380,194          | 114,402,720          | 94,507,795           | 70,917,559           | 3.37                                                    |
| New Brunswick.....    | 85,364,983           | 87,382,143           | 78,772,589           | 64,307,571           | 54,063,723           | 2.57                                                    |
| Quebec.....           | 979,666,796          | 1,049,515,828        | 892,076,349          | 686,817,209          | 557,659,317          | 26.49                                                   |
| Ontario.....          | 1,572,835,443        | 1,668,395,781        | 1,380,458,865        | 1,083,600,274        | 884,801,710          | 42.04                                                   |
| Manitoba.....         | 235,182,668          | 185,231,376          | 142,170,104          | 113,396,393          | 100,453,108          | 4.77                                                    |
| Saskatchewan.....     | 413,825,134          | 238,781,959          | 134,134,319          | 82,691,410           | 117,858,748          | 5.60                                                    |
| Alberta.....          | 341,413,575          | 237,493,962          | 184,659,449          | 164,947,717          | 157,015,824          | 7.46                                                    |
| British Columbia..... | 321,354,242          | 331,466,014          | 268,972,091          | 193,751,045          | 148,689,806          | 7.06                                                    |
| Yukon.....            | 5,465,945            | 5,509,564            | 4,465,130            | 4,260,226            | 3,183,840            | 0.15                                                    |
| <b>Canada.....</b>    | <b>4,122,509,882</b> | <b>3,946,609,211</b> | <b>3,216,746,735</b> | <b>2,500,203,902</b> | <b>2,104,908,301</b> | <b>100.00</b>                                           |

**Relative Production in Different Provinces, 1932.**—It will be seen from Table 3 that Ontario and Quebec held first and second places among the provinces in the net value of production in 1932. The percentage of production of each of these provinces to the total was lower than in 1931, when the net output in the two provinces represented 43.3 p.c. and 27.5 p.c. of the totals respectively. Third place in 1932 goes to Alberta with 7.5 p.c. of the total, while British Columbia, with 7.8 p.c., held third place in 1931. British Columbia and Saskatchewan are fourth and fifth respectively, replacing Alberta and Manitoba from these positions as in 1931. In 1932 Manitoba was in sixth place, followed by Nova Scotia, New Brunswick and Prince Edward Island in the order named.

## Section 3.—Leading Branches of Production in each Province, 1932.

**The Maritime Provinces.**—Production in *Nova Scotia* in 1932 was principally in the manufacturing, mining, agricultural and forestry industries, which were accountable for 38.7 p.c., 22.9 p.c., 18.6 p.c., and 10.5 p.c., respectively, of the net value of output of the province; the contribution of manufactures, aside from



processes carried on in connection with the extractive industries, was 26.3 p.c. In *New Brunswick* manufacturing also took first place as a producer of new wealth, the proportion being 49.4 p.c. Agriculture was second with 24.7 p.c. and forestry third. If the manufacturing group be limited to exclude processes carried on in connection with the extractive industries, it still ranked as the premier industry, with 33.0 p.c. Agriculture, including fur farming, contributed 65.3 p.c. of the net output of *Prince Edward Island*. In the Maritime Provinces as a whole, the value of production was 31 p.c. less than in the preceding year. The generation of electrical energy industry alone showed a gain for 1932.

**Quebec.**—The value of product derived from manufactures in Quebec was greater than that from any other industry. Manufactures, aside from the output of establishments associated with the extractive industries, contributed 52.2 p.c., while the net output of the entire manufacturing division, referred to the same base, was 67.5 p.c. Agriculture with 17.4 p.c., forestry with 9.0 p.c., and the generation of electrical energy with 8.0 p.c., occupied second, third and fourth places. The increases over 1931 in trapping and in the generation of electrical energy were 23.9 p.c. and 6.6 p.c., respectively.

**Ontario.**—The net value of production from the manufactures of Ontario, when stripped of all duplication, was \$473,000,000 or 53.4 p.c. of the total, compared with \$185,000,000 or 20.9 p.c. from agriculture. Mining held third place with 9.7 p.c. of the total, and electric power followed with 5.7 p.c. The forestry output was 3.6 p.c. of the net production of the province. Decreases from 1931 were shown in all the main divisions of production except the generation of electrical energy. The net output of manufactures decreased by \$146,800,000, while agriculture showed a decline of \$10,700,000 or 5.5 p.c. Except in forestry, fisheries, trapping and construction Ontario led the other provinces in the productiveness of the main branches of industry. The province yielded precedence in forestry operations, trapping and construction to Quebec alone, while British Columbia, Nova Scotia and New Brunswick obtained a greater income than Ontario did from fisheries. About 48.5 p.c. of the net manufacturing output of the country was contributed by Ontario and 32.7 p.c. of the agricultural income was derived from the same province.

**The Prairie Provinces.**—About 77.8 p.c. of the output of *Saskatchewan* was obtained from farming, which industry was also a predominant producer of new wealth in *Manitoba* and *Alberta*, the proportions being 36.2 p.c. and 63.4 p.c., respectively. Mineral production, chiefly coal mining, held second place in *Alberta* with an output of 13.5 p.c. of the provincial total. Manufacturing was first in importance in *Manitoba*, representing 36.1 p.c. of the value of the net output. *Saskatchewan* was the only province in the Dominion to show an increase in total net value of production, agriculture showing a betterment of \$47,401,000 or 107 p.c. over 1931. In *Manitoba*, agriculture and trapping showed gains in 1932 over the preceding year. The agricultural and electric power industries of *Saskatchewan* showed gains in 1932, and the net revenue from agriculture and the electric power industry of *Alberta* was somewhat greater.

**British Columbia.**—The net production from manufacturing in British Columbia during 1932 was about \$75,000,000, but almost half of this amount was derived from manufacturing processes closely associated with the primary industries, especially logging and fishing. The remainder, \$41,791,000, was 28.1 p.c. of the net output of the province. Aside from manufacturing, mining consti-

tuted the chief source of new wealth, about 18.4 p.c. of the total net output of the province being contributed by the mines. Forestry and farming followed in order, with percentages of 17.2 and 15.4 respectively.

Details showing the gross and net values of production, by industries, in the various provinces in 1932, together with percentages, are given in Tables 4 and 5.

Tables 4A and 5A give the same information for the year 1931.

#### 4.—Gross and Net Values of Production in Canada, by Industries and Provinces, 1932.

NOTE.—For Dominion totals, see Tables 1 and 2.

##### GROSS PRODUCTION.

| Industry.                       | Prince<br>Edward<br>Island. | Nova<br>Scotia.    | New<br>Brunswick. | Quebec.            | Ontario.             |
|---------------------------------|-----------------------------|--------------------|-------------------|--------------------|----------------------|
|                                 | \$                          | \$                 | \$                | \$                 | \$                   |
| Agriculture.....                | 10,611,218                  | 21,310,776         | 21,918,389        | 150,677,656        | 272,658,205          |
| Forestry.....                   | 613,868                     | 9,438,524          | 15,592,410        | 75,321,993         | 47,162,119           |
| Fisheries.....                  | 1,476,926                   | 9,162,939          | 3,716,783         | 2,082,480          | 2,147,990            |
| Trapping.....                   | -1,205                      | 206,452            | 76,555            | 1,756,316          | 1,355,515            |
| Mining.....                     | -                           | 16,201,279         | 2,223,505         | 45,630,609         | 95,839,655           |
| Electric power.....             | 275,149                     | 5,292,749          | 4,148,199         | 50,954,121         | 78,571,217           |
| Construction.....               | 1,071,800                   | 4,009,500          | 4,258,200         | 52,525,300         | 49,291,800           |
| Custom and repair.....          | 185,000                     | 2,265,000          | 1,139,000         | 15,395,000         | 32,394,000           |
| Manufactures <sup>1</sup> ..... | 3,566,968                   | 50,351,054         | 47,472,393        | 668,417,093        | 1,028,397,654        |
| <b>Totals.....</b>              | <b>15,943,467</b>           | <b>102,795,156</b> | <b>84,667,778</b> | <b>919,858,072</b> | <b>1,459,572,816</b> |

| Industry.                       | Manitoba.          | Saskat-<br>chewan. | Alberta.           | British<br>Columbia. | Yukon.                 |
|---------------------------------|--------------------|--------------------|--------------------|----------------------|------------------------|
|                                 | \$                 | \$                 | \$                 | \$                   | \$                     |
| Agriculture.....                | 53,560,218         | 128,107,011        | 126,441,517        | 33,264,931           | -                      |
| Forestry.....                   | 2,146,342          | 2,075,194          | 3,573,656          | 39,101,246           | -                      |
| Fisheries.....                  | 1,204,892          | 186,174            | 153,789            | 13,513,789           | 20,060                 |
| Trapping.....                   | 530,398            | 916,476            | 626,262            | 492,839              | 1,158,413 <sup>2</sup> |
| Mining.....                     | 11,243,411         | 1,681,728          | 21,183,312         | 32,939,306           | 2,005,367              |
| Electric power.....             | 7,966,196          | 5,312,511          | 5,528,340          | 13,582,200           | -                      |
| Construction.....               | 4,563,500          | 2,705,200          | 5,948,200          | 8,558,900            | -                      |
| Custom and repair.....          | 7,920,000          | 5,627,000          | 6,379,000          | 6,696,000            | -                      |
| Manufactures <sup>1</sup> ..... | 96,056,029         | 36,101,516         | 55,293,832         | 140,538,016          | -                      |
| <b>Totals.....</b>              | <b>164,911,278</b> | <b>172,862,819</b> | <b>214,177,072</b> | <b>228,538,264</b>   | <b>3,183,840</b>       |

##### NET PRODUCTION.

| Industry.                       | Prince<br>Edward<br>Island. | Nova Scotia.      | New<br>Brunswick. | Quebec.            | Ontario.           |
|---------------------------------|-----------------------------|-------------------|-------------------|--------------------|--------------------|
|                                 | \$                          | \$                | \$                | \$                 | \$                 |
| Agriculture.....                | 6,700,063                   | 13,177,339        | 13,375,055        | 96,854,742         | 184,958,049        |
| Forestry.....                   | 554,213                     | 7,420,956         | 10,388,189        | 50,234,743         | 32,187,981         |
| Fisheries.....                  | 988,919                     | 6,557,943         | 2,972,682         | 1,815,544          | 2,147,990          |
| Trapping.....                   | -1,205                      | 206,452           | 76,555            | 1,756,316          | 1,355,515          |
| Mining.....                     | -                           | 16,201,279        | 2,223,505         | 25,638,466         | 85,910,030         |
| Electric power.....             | 274,555                     | 4,356,412         | 3,340,257         | 44,720,404         | 49,952,973         |
| Construction.....               | 696,670                     | 2,606,175         | 2,767,830         | 34,141,445         | 32,039,670         |
| Custom and repair.....          | 159,000                     | 1,767,000         | 1,105,000         | 11,142,000         | 23,511,000         |
| Manufactures <sup>1</sup> ..... | 1,617,930                   | 27,430,624        | 26,695,743        | 376,213,941        | 568,486,655        |
| <b>Totals.....</b>              | <b>10,264,666</b>           | <b>70,917,559</b> | <b>54,063,723</b> | <b>557,659,317</b> | <b>884,801,710</b> |

For footnotes, see end of table, p. 239.

4.—Gross and Net Values of Production in Canada, by Industries and Provinces, 1932—concluded.

NET PRODUCTION—concluded.

| Industry.                       | Manitoba.          | Saskatchewan.      | Alberta.           | British Columbia.  | Yukon.                 |
|---------------------------------|--------------------|--------------------|--------------------|--------------------|------------------------|
|                                 | \$                 | \$                 | \$                 | \$                 | \$                     |
| Agriculture.....                | 36,314,987         | 91,668,357         | 99,530,146         | 22,838,966         | -                      |
| Forestry.....                   | 1,869,523          | 1,958,704          | 3,153,747          | 25,633,890         | -                      |
| Fisheries.....                  | 1,204,892          | 186,174            | 153,789            | 9,909,116          | 20,060                 |
| Trapping.....                   | 530,398            | 916,476            | 626,262            | 492,839            | 1,158,413 <sup>a</sup> |
| Mining.....                     | 9,058,365          | 1,681,728          | 21,183,312         | 27,326,173         | 2,005,367              |
| Electric power.....             | 6,534,141          | 4,478,110          | 4,681,024          | 10,082,357         | -                      |
| Construction.....               | 2,927,275          | 1,758,380          | 3,866,330          | 5,563,285          | -                      |
| Custom and repair.....          | 5,747,000          | 3,998,000          | 4,519,000          | 5,052,000          | -                      |
| Manufactures <sup>1</sup> ..... | 50,464,930         | 17,886,961         | 26,851,640         | 74,577,448         | -                      |
| <b>Totals.....</b>              | <b>100,453,108</b> | <b>117,858,748</b> | <b>157,015,824</b> | <b>148,689,806</b> | <b>3,183,840</b>       |

<sup>1</sup>The figures for "manufactures" involve duplicated amounts which were deducted in computing the totals for each province. The duplication arises from including in two places a number of industries which may be regarded as extractive or as manufacturing processes. Shipbuilding for example was included under both "construction" and "manufacturing" up to 1929 (see footnote 1, Table 2). The following statement gives the amount of the duplication by provinces: Prince Edward Island, gross \$2,033,757, net \$682,884; Nova Scotia, gross \$23,389,351, net \$12,685,024; New Brunswick, gross \$28,782,642, net \$14,644,759; Quebec, gross \$249,818,705, net \$156,702,888; Ontario, gross \$271,025,350, net \$168,069,656; Manitoba, gross \$23,261,637, net \$15,171,161; Saskatchewan, gross \$13,164,558, net \$8,264,795; Alberta, gross \$15,577,403, net \$9,714,617; British Columbia, gross \$130,384,923, net \$67,079,763.

<sup>2</sup>Includes the trapping industry of the Northwest Territories.

4A.—Gross and Net Values of Production in Canada, by Industries and Provinces, 1931.

NOTE.—For Dominion totals, see Tables 1 and 2.

GROSS PRODUCTION.

| Industry.                       | Prince Edward Island. | Nova Scotia.       | New Brunswick.     | Quebec.              | Ontario.             |
|---------------------------------|-----------------------|--------------------|--------------------|----------------------|----------------------|
|                                 | \$                    | \$                 | \$                 | \$                   | \$                   |
| Agriculture.....                | 12,169,845            | 26,657,622         | 24,142,639         | 166,971,907          | 303,591,217          |
| Forestry.....                   | 623,057               | 12,735,640         | 22,352,543         | 102,562,537          | 75,409,669           |
| Fisheries.....                  | 1,605,839             | 11,302,090         | 5,320,206          | 2,194,389            | 2,477,131            |
| Trapping.....                   | 2,283                 | 231,138            | 111,992            | 1,417,523            | 1,799,182            |
| Mining.....                     | -                     | 21,080,746         | 2,176,910          | 55,643,910           | 115,314,954          |
| Electric power.....             | 270,981               | 4,856,319          | 3,694,966          | 47,980,200           | 73,498,076           |
| Construction.....               | 186,800               | 6,923,900          | 9,756,700          | 106,125,700          | 125,452,300          |
| Custom and repair.....          | 215,000               | 3,191,000          | 1,326,000          | 18,410,000           | 41,210,000           |
| Manufactures <sup>1</sup> ..... | 4,136,576             | 70,679,503         | 55,209,818         | 849,154,353          | 1,312,400,828        |
| <b>Totals.....</b>              | <b>17,278,144</b>     | <b>136,853,405</b> | <b>100,055,694</b> | <b>1,142,897,391</b> | <b>1,832,254,080</b> |

| Industry.                       | Manitoba.          | Saskatchewan.      | Alberta.           | British Columbia.  | Yukon.                 |
|---------------------------------|--------------------|--------------------|--------------------|--------------------|------------------------|
|                                 | \$                 | \$                 | \$                 | \$                 | \$                     |
| Agriculture.....                | 55,893,510         | 111,014,350        | 142,277,214        | 37,335,580         | -                      |
| Forestry.....                   | 6,025,681          | 4,933,204          | 5,738,311          | 58,293,360         | -                      |
| Fisheries.....                  | 1,241,575          | 317,963            | 153,897            | 15,012,171         | 29,550                 |
| Trapping.....                   | 527,063            | 1,033,294          | 950,989            | 586,169            | 2,085,329 <sup>2</sup> |
| Mining.....                     | 11,745,863         | 1,931,880          | 23,580,727         | 42,744,982         | 2,145,347              |
| Electric power.....             | 8,004,174          | 5,290,322          | 5,571,019          | 14,155,508         | -                      |
| Construction.....               | 13,797,800         | 9,200,000          | 14,334,700         | 29,704,100         | -                      |
| Custom and repair.....          | 9,764,000          | 6,880,000          | 7,756,000          | 8,248,000          | -                      |
| Manufactures <sup>1</sup> ..... | 118,540,865        | 44,265,151         | 68,367,411         | 175,707,357        | -                      |
| <b>Totals.....</b>              | <b>198,685,515</b> | <b>173,336,852</b> | <b>255,519,947</b> | <b>295,592,071</b> | <b>4,260,226</b>       |

For footnotes, see end of table, p. 240.

#### 4A.—Gross and Net Values of Production in Canada, by Industries and Provinces, 1931—concluded.

##### NET PRODUCTION.

| Industry.                       | Prince<br>Edward<br>Island. | Nova<br>Scotia.   | New<br>Brunswick. | Quebec.            | Ontario.             |
|---------------------------------|-----------------------------|-------------------|-------------------|--------------------|----------------------|
|                                 | \$                          | \$                | \$                | \$                 | \$                   |
| Agriculture.....                | 8,685,000                   | 18,925,000        | 16,693,000        | 106,669,000        | 195,646,000          |
| Forestry.....                   | 555,903                     | 9,774,909         | 15,342,558        | 67,454,669         | 53,349,465           |
| Fisheries.....                  | 1,078,901                   | 7,986,711         | 4,169,811         | 1,952,894          | 2,477,131            |
| Trapping.....                   | 2,283                       | 231,138           | 111,992           | 1,417,523          | 1,799,182            |
| Mining.....                     | —                           | 21,080,746        | 2,176,910         | 35,696,563         | 96,113,235           |
| Electric power.....             | 270,445                     | 3,954,158         | 2,931,097         | 42,010,665         | 46,542,982           |
| Construction.....               | 121,420                     | 4,500,535         | 6,341,855         | 68,981,705         | 81,543,995           |
| Custom and repair.....          | 157,000                     | 2,463,000         | 1,250,000         | 14,610,000         | 28,160,000           |
| Manufactures <sup>1</sup> ..... | 1,787,209                   | 37,391,253        | 29,577,962        | 480,110,221        | 714,521,036          |
| <b>Totals.....</b>              | <b>11,924,262</b>           | <b>91,507,795</b> | <b>61,307,571</b> | <b>686,817,209</b> | <b>1,083,600,274</b> |

| Industry.                       | Manitoba.          | Saskat-<br>chewan. | Alberta.           | British<br>Columbia. | Yukon.                 |
|---------------------------------|--------------------|--------------------|--------------------|----------------------|------------------------|
|                                 | \$                 | \$                 | \$                 | \$                   | \$                     |
| Agriculture.....                | 28,201,000         | 44,267,000         | 91,778,000         | 27,328,000           | —                      |
| Forestry.....                   | 4,972,866          | 4,787,054          | 5,362,416          | 39,050,429           | —                      |
| Fisheries.....                  | 1,241,575          | 317,963            | 153,897            | 11,108,873           | 29,550                 |
| Trapping.....                   | 527,063            | 1,033,294          | 950,989            | 586,169              | 2,085,329 <sup>2</sup> |
| Mining.....                     | 9,965,854          | 1,931,880          | 23,580,727         | 35,337,756           | 2,145,347              |
| Electric power.....             | 6,778,905          | 4,454,617          | 4,674,857          | 10,693,004           | —                      |
| Construction.....               | 8,968,570          | 5,980,060          | 9,317,555          | 19,307,665           | —                      |
| Custom and repair.....          | 7,375,000          | 4,958,000          | 5,549,000          | 6,478,000            | —                      |
| Manufactures <sup>1</sup> ..... | 63,391,473         | 21,724,533         | 32,277,242         | 93,800,922           | —                      |
| <b>Totals.....</b>              | <b>113,396,393</b> | <b>82,691,410</b>  | <b>164,947,717</b> | <b>193,751,045</b>   | <b>4,260,226</b>       |

<sup>1</sup>The figures for "manufactures" involve duplicated amounts which were deducted in computing the totals for each province. The duplication arises from including in two places a number of industries which may be regarded as extractive or as manufacturing processes. Shipbuilding for example was included under both "construction" and "manufacturing" up to 1929 (see footnote 1, Table 2). The following statement gives the amount of the duplication by provinces: Prince Edward Island, gross \$2,033,757, net \$682,844; Nova Scotia, gross \$23,389,351, net \$12,685,024; New Brunswick, gross \$28,732,642, net \$14,644,759; Quebec, gross \$249,818,705, net \$156,702,888; Ontario, gross \$271,025,350, net \$168,069,656; Manitoba, gross \$23,261,637, net \$15,171,161; Saskatchewan, gross \$13,164,558, net \$8,264,795; Alberta, gross \$15,577,403, net \$9,714,617; British Columbia, gross \$130,384,923, net \$67,079,763.

<sup>2</sup>Includes the trapping industry of the Northwest Territories.

#### 5.—Percentage of the Value of the Net Production in each Industry to the Total Net Production of each Province, 1932.

| Industry.                                                                   | Prince<br>Edward<br>Island. | Nova<br>Scotia. | New<br>Brunswick. | Quebec.       | Ontario.      |
|-----------------------------------------------------------------------------|-----------------------------|-----------------|-------------------|---------------|---------------|
|                                                                             | p.c.                        | p.c.            | p.c.              | p.c.          | p.c.          |
| Agriculture.....                                                            | 65.27                       | 18.58           | 24.74             | 17.37         | 20.90         |
| Forestry.....                                                               | 5.40                        | 10.46           | 19.21             | 9.01          | 3.64          |
| Fisheries.....                                                              | 9.63                        | 9.25            | 5.50              | 0.33          | 0.24          |
| Trapping.....                                                               | —                           | 0.29            | 0.14              | 0.31          | 0.15          |
| Mining.....                                                                 | —                           | 22.85           | 4.11              | 4.60          | 9.71          |
| Electric power.....                                                         | 2.67                        | 6.14            | 6.18              | 8.02          | 5.65          |
| Construction.....                                                           | 6.79                        | 3.67            | 5.12              | 6.12          | 3.62          |
| Custom and repair.....                                                      | 1.55                        | 2.49            | 2.04              | 2.00          | 2.66          |
| Manufactures, n.e.s.....                                                    | 8.69                        | 26.27           | 32.96             | 52.24         | 53.43         |
| <b>Totals.....</b>                                                          | <b>100.00</b>               | <b>100.00</b>   | <b>100.00</b>     | <b>100.00</b> | <b>100.00</b> |
| Totals, Manufactures (Percentages to<br>Grand Totals of Net Production).... | 15.76                       | 38.68           | 49.38             | 67.46         | 64.25         |



5.—Percentage of the Value of the Net Production in each Industry to the Total Net Production of each Province, 1932—concluded.

| Industry.                                                                | Manitoba.     | Saskatchewan. | Alberta.      | British Columbia. | Yukon.             | Canada.       |
|--------------------------------------------------------------------------|---------------|---------------|---------------|-------------------|--------------------|---------------|
|                                                                          | p.c.          | p.c.          | p.c.          | p.c.              | p.c.               | p.c.          |
| Agriculture.....                                                         | 36.16         | 77.78         | 63.39         | 15.36             | —                  | 26.86         |
| Forestry.....                                                            | 1.86          | 1.66          | 2.01          | 17.24             | —                  | 6.34          |
| Fisheries.....                                                           | 1.20          | 0.16          | 0.10          | 6.66              | 0.63               | 1.23          |
| Trapping.....                                                            | 0.53          | 0.78          | 0.40          | 0.33              | 36.38 <sup>1</sup> | 0.34          |
| Mining.....                                                              | 9.02          | 1.43          | 13.49         | 18.38             | 62.99              | 9.08          |
| Electric power.....                                                      | 6.50          | 3.80          | 2.98          | 6.78              | —                  | 6.10          |
| Construction.....                                                        | 2.91          | 1.49          | 2.46          | 3.74              | —                  | 4.10          |
| Custom and repair.....                                                   | 5.72          | 3.39          | 2.88          | 3.40              | —                  | 2.71          |
| Manufactures, n.e.s.....                                                 | 36.10         | 9.51          | 12.29         | 28.11             | —                  | 43.24         |
| <b>Totals.....</b>                                                       | <b>100.00</b> | <b>100.00</b> | <b>100.00</b> | <b>100.00</b>     | <b>100.00</b>      | <b>100.00</b> |
| Totals, Manufactures (Percentages to Grand Totals of Net Production).... | 50.24         | 15.18         | 17.10         | 50.16             | —                  | 55.60         |

<sup>1</sup>Includes the trapping industry of the Northwest Territories.

5A.—Percentage of the Value of the Net Production in each Industry to the Total Net Production of each Province, 1931.

| Industry.                                                                | Prince Edward Island. | Nova Scotia.  | New Brunswick. | Quebec.       | Ontario.      |
|--------------------------------------------------------------------------|-----------------------|---------------|----------------|---------------|---------------|
|                                                                          | p.c.                  | p.c.          | p.c.           | p.c.          | p.c.          |
| Agriculture.....                                                         | 72.83                 | 20.02         | 25.96          | 15.53         | 18.05         |
| Forestry.....                                                            | 4.66                  | 10.34         | 23.86          | 9.82          | 4.92          |
| Fisheries.....                                                           | 0.05                  | 8.45          | 6.48           | 0.28          | 0.23          |
| Trapping.....                                                            | 0.02                  | 0.24          | 0.17           | 0.21          | 0.17          |
| Mining.....                                                              | —                     | 22.32         | 3.39           | 5.20          | 8.87          |
| Electric power.....                                                      | 2.27                  | 4.18          | 4.56           | 6.12          | 4.30          |
| Construction.....                                                        | 1.02                  | 4.76          | 9.86           | 10.04         | 7.53          |
| Custom and repair.....                                                   | 1.32                  | 2.61          | 1.94           | 2.13          | 2.60          |
| Manufactures, n.e.s.....                                                 | 8.83                  | 27.08         | 23.78          | 50.67         | 53.33         |
| <b>Totals.....</b>                                                       | <b>100.00</b>         | <b>100.00</b> | <b>100.00</b>  | <b>100.00</b> | <b>100.00</b> |
| Totals, Manufactures (Percentages to Grand Totals of Net Production).... | 14.99                 | 39.56         | 45.99          | 69.90         | 65.94         |

| Industry.                                                                 | Manitoba.     | Saskatchewan. | Alberta.      | British Columbia. | Yukon.             | Canada.       |
|---------------------------------------------------------------------------|---------------|---------------|---------------|-------------------|--------------------|---------------|
|                                                                           | p.c.          | p.c.          | p.c.          | p.c.              | p.c.               | p.c.          |
| Agriculture.....                                                          | 24.87         | 53.53         | 55.64         | 14.10             | —                  | 21.53         |
| Forestry.....                                                             | 4.39          | 5.79          | 3.25          | 20.16             | —                  | 8.03          |
| Fisheries.....                                                            | 1.09          | 0.38          | 0.09          | 5.73              | 0.69               | 1.22          |
| Trapping.....                                                             | 0.46          | 1.25          | 0.58          | 0.30              | 48.95 <sup>1</sup> | 0.35          |
| Mining.....                                                               | 8.79          | 2.34          | 14.30         | 18.24             | 50.36              | 9.12          |
| Electric power.....                                                       | 5.98          | 5.39          | 2.83          | 5.52              | —                  | 4.89          |
| Construction.....                                                         | 7.91          | 7.23          | 5.65          | 9.97              | —                  | 8.20          |
| Custom and repair.....                                                    | 6.50          | 6.00          | 3.36          | 3.34              | —                  | 2.84          |
| Manufactures, n.e.s.....                                                  | 40.01         | 18.09         | 14.30         | 22.64             | —                  | 43.82         |
| <b>Totals.....</b>                                                        | <b>100.00</b> | <b>100.00</b> | <b>100.00</b> | <b>100.00</b>     | <b>100.00</b>      | <b>100.00</b> |
| Totals, Manufactures (Percentages to Grand Totals of Net Production)..... | 55.90         | 26.27         | 19.57         | 48.41             | —                  | 58.98         |

<sup>1</sup>Includes the trapping industry of the Northwest Territories.

## CHAPTER VIII.—AGRICULTURE.

Agriculture, including stock raising and horticulture, is the chief single industry of the Canadian people, employing, in 1931, 28·7 p.c. of the total gainfully occupied population and 33·9 p.c. or over one-third of the gainfully occupied males. In addition, it provides the raw material for many Canadian manufactures, and its products in raw or manufactured form constitute a very large percentage of Canadian exports. For a statement of the occupied and the available agricultural lands in Canada, see p. 39 of this volume.

This chapter of the present volume contains a statement of current governmental activities in connection with agriculture, including those of the Dominion and Provincial Experimental Stations. This is followed by statistics of agriculture, including agricultural revenue and wealth, field crops, farm live stock and poultry, dairying, fur farming, fruit, special crops, farm labour and wages, prices, miscellaneous, and, since Canadian exports of agricultural commodities are sold in the world market, a review of world statistics of agriculture, compiled from the publications of the International Institute of Agriculture.

The Canada Year Book, 1924, contained, on pp. 186-191, an article on the "Development of Agriculture in Canada", by Dr. J. H. Grisdale, Deputy Minister, Department of Agriculture, Ottawa. To this the interested reader is referred.

### Section 1.—The Government in Relation to Agriculture.\*

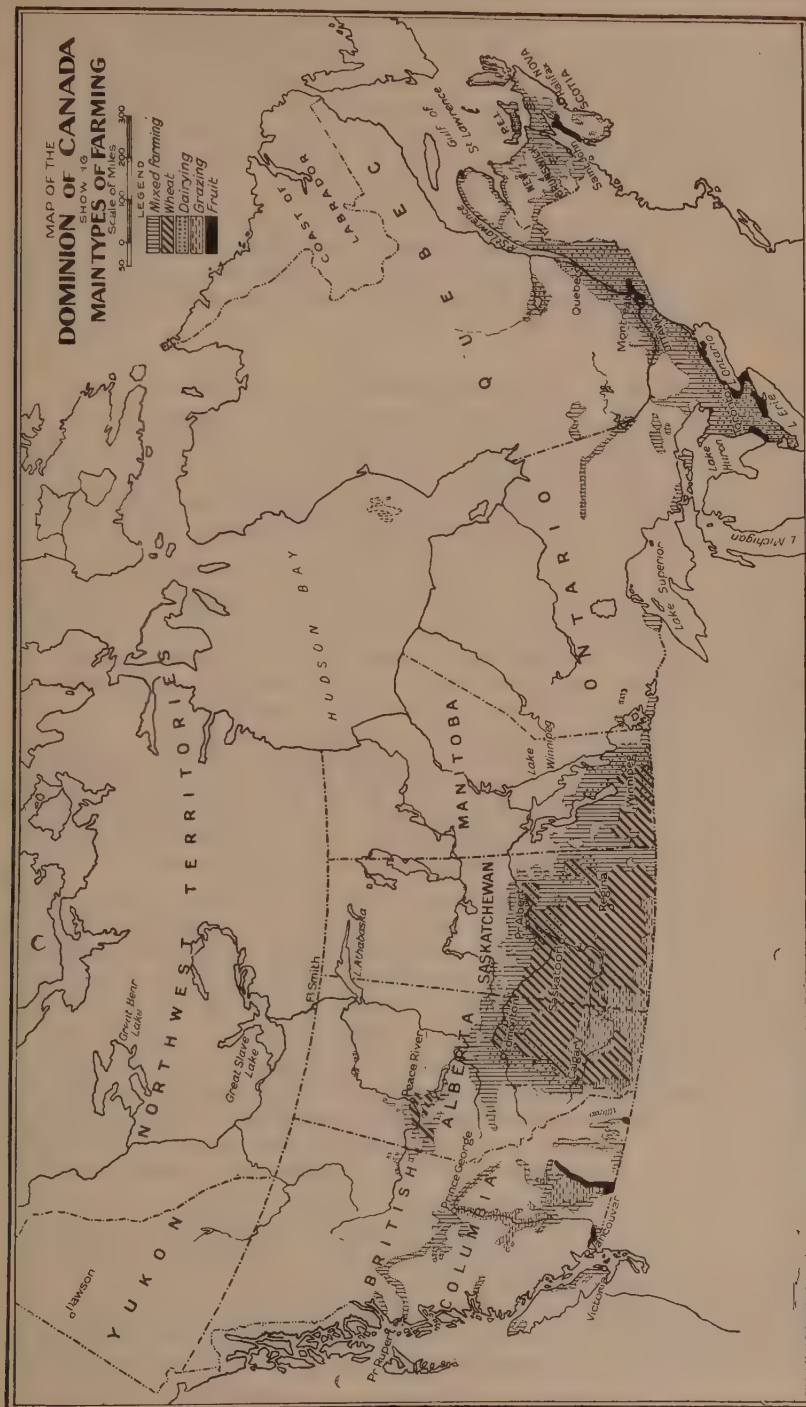
It is provided in Section 95 of the British North America Act that "in each province the Legislature may make laws in relation to agriculture in the province"; it is also "declared that the Parliament of Canada may from time to time make laws in relation to agriculture in all or any of the provinces; and any law of the Legislature of a province relative to agriculture . . . shall have effect in and for the province as long and as far only as it is not repugnant to any Act of the Parliament of Canada".

As a result of this provision, there exist at the present time Departments of Agriculture, with Ministers of Agriculture at their heads, both in the Dominion and in each of the nine provinces, though in two provinces the portfolio of agriculture is combined with one or more other portfolios in the hands of a single Minister. A short sketch of the functions of the various Departments follows.

#### Subsection 1.—The Dominion Department of Agriculture.

The Dominion Department of Agriculture was constituted in 1868 under authority of 31 Vict., c. 53, with numerous functions that were by no means purely agricultural, including: (1) agriculture; (2) immigration and emigration; (3) public health and quarantine; (4) the marine and immigrant hospital at Quebec; (5) arts and manufactures; (6) the census, statistics and the registration of statistics; (7) patents of invention; (8) copyright; (9) industrial designs and trade marks.

\*This section, with the exception of Subsection 2, has been revised by the Dominion Department of Agriculture. The information in Subsection 2 was checked by the various provincial authorities.



MAIN TYPES OF FARMING IN CANADA

In the course of time the purely agricultural work of the Department came to demand greater attention; the non-agricultural functions were one by one entrusted to other Departments of the Government, while specialization became the order of the day within the Department of Agriculture itself. At the present time it includes the following branches: (1) Experimental Farms; (2) Dairy and Cold Storage; (3) Health of Animals; (4) Live Stock; (5) Seed; (6) Entomological; (7) Fruit; (8) Publications; (9) Agricultural Economics.

For the Acts of Parliament administered by the Dominion Department of Agriculture, see in the index "Acts of Parliament administered by Dominion Government Departments". For the publications of the Department, covering a wide field of information, see in the index the entry "Publications of Dominion Departments".

### Subsection 2.—Provincial Departments of Agriculture.\*

*Prince Edward Island.*—The Department of Agriculture is presided over by a Minister, and the staff consists of a live stock superintendent, a superintendent of women's institutes and a dairy superintendent. Assistance is given in co-operative marketing, promoting the live-stock industry and encouraging exhibitions, the formation of boys' and girls' clubs and the welfare of agriculture generally.

*Nova Scotia.*—Agriculture in the province of Nova Scotia is administered by the Department of Agriculture. The Department is divided into the following main divisions: (1) administration; (2) agricultural college and farm; (3) extension service; (4) marketing; (5) agricultural societies, associations, and exhibitions; (6) dairying; (7) poultry; (8) live stock; (9) entomology and botany; (10) apiculture; (11) women's institutes; (12) immigration and land settlement.

*New Brunswick.*—The branches of the Department of Agriculture of New Brunswick are as follows: (1) live stock and agricultural societies; (2) dairying; (3) herd improvement; (4) soils and crops; (5) poultry; (6) horticulture; (7) women's institutes; (8) agricultural representatives; (9) industry, immigration and farm settlement; (10) elementary agricultural education; (11) bee-keeping.

*Quebec.*—The Quebec Department of Agriculture comprises a certain number of branches and sections as follows: *Agricultural Economics Branch*, including the following sections: publicity; co-operation, markets and statistics; demonstration farms; agricultural surveys; field husbandry; drainage; home economics; bee-keeping and sugar making; agricultural societies. *Live Stock Branch*, including the following sections: dairy; veterinary; swine; sheep; horses; poultry; farm buildings. *Horticulture Branch*, including the following sections: fruit growing; truck crops; vegetable canning; flower growing; phytopathology; entomology; botany. *Agricultural Representatives Branch*: 82 agricultural representatives' offices are now established in rural counties of Quebec and are under the supervision of 6 inspectors. The above organizations are all under one General Director of Branches.

There are other activities which are not included in the above organization, such as: agricultural education, agricultural merit competition, provincial dairy school, provincial handicraft school.

\*For publications of provincial Departments of Agriculture, see in the index the entry "Publications of Provincial Governments".



*Ontario.*—The Ontario Department of Agriculture includes the following branches: agricultural and horticultural societies, live stock, institutes, dairy, fruit, crops, co-operation and markets, statistics and publications, agricultural representatives and the Agricultural Development Board. The Department is responsible for the administration of the Ontario Agricultural College, the Ontario Veterinary College, the Kemptville Agricultural School, and the experimental farms at Guelph, Ridgetown and Vineland.

*Manitoba.*—The Manitoba Department of Agriculture includes an agricultural extension service, a dairy branch, a publications and statistics branch, a live stock branch, a debt adjustment board, a registrar of co-operative associations, and a weeds branch. It also conducts the Manitoba branch of the Employment Service of Canada.

*Saskatchewan.*—The work of the Department of Agriculture is chiefly administrative. It includes the following principal branches: live stock, field crops, dairy, statistics, co-operation and markets, a bee division and a debt adjustment bureau. The Live Stock Branch provides the organization for examining and licensing stallions, purchasing and selling cattle, sheep and hogs to farmers on credit terms, and registering brands for live stock. Pure-bred sire areas are being created under statutory authority in order to eliminate undesirable sires and improve the quality of live stock. The poultry industry is promoted through the flock-culling service, the turkey-grading service and the approved hatchery policy. The Field Crops Branch aids in promoting good cropping and tillage practices and providing control measures for suppressing insect and weed pests. The Dairy Branch directs the grading of cream at all the creameries, promotes herd improvement through cow-testing and administers the provisions of the Dairy Products Act with respect to licensing creamery operators, cream testers, and the bonding of creameries. The Statistics Branch, in co-operation with the Dominion Bureau of Statistics, maintains a crop-reporting service and gathers annual data respecting the crops and live stock of the province. The Co-operation and Markets Branch grants charters to co-operative associations under the Co-operative Associations Act, promotes co-operative stock shipping and poultry marketing and maintains an exchange service by a fortnightly news letter through which buyer and seller are brought together. An Apiary Division has been organized to assist bee-keeping, which is developing substantially. Agricultural societies are organized by the Department and grants are paid through the Department, while direction of the activities of societies is centered in the College of Agriculture of the University of Saskatchewan.

*Alberta.*—This Department conducts the following main services: agricultural schools and demonstration farms, field crops, dairy, live stock, veterinary, poultry, apiaries, fairs and institutes, branding, game regulation, women's bureau service, crop reports and statistics, marketing services, district agriculturists and a branch looking after the fur farm leases of the province.

The attention of the Department has recently been given to the development of apiculture and a provincial apiarist is engaged in this work. Increased encouragement is being given to the live-stock industry through the "Pure-bred Bulls Purchase Act", and in giving supervision to the feeding plan for beef cattle now being carried out by the "Red Label" Beef Association. Increasing efforts are being made to cope with the weed menace and encouragement is being given to the sale and production of registered seed. The poultry industry is also receiving increased attention. Money is expended each summer in connection with soil

survey work, and special efforts are being directed to the development of forage crops and grasses and the improvement of pasturage.

*British Columbia.*—The Department of Agriculture consists of three main divisions dealing with general administration, animal industry and plant industry.

Under general administration are the branches dealing with collection of statistics, assistance to fall fairs, distribution of publications, soil survey, apiary inspection, supervision of Farmers' and Women's Institutes, and policies of a general agricultural nature, together with the Markets Branch. The Animal Industry Division includes: dairy, poultry, veterinary and general live-stock branches, as well as brands inspection and junior club work. The Plant Industry Division includes: plant disease and pest control, pathology and entomology, field crops and horticultural activities.

The extension service has representatives located in fifteen agricultural districts. These representatives are under the immediate supervision of either animal industry or plant industry, depending upon the predominating feature of agriculture in the several districts.

Particular attention has been given to the development of a live-stock policy, by which the favourable climatic conditions of the coast districts of British Columbia will enable farmers to finish live stock ready for the market at seasons when weather conditions are not favourable in other parts of Canada. This policy has been devised with the aim of enabling the farmers of British Columbia to supplement the work of the prairie live-stock men in maintaining a continuous supply of well-finished animals for the market.

The British Columbia Department of Agriculture through its Dairy Branch has compiled its initial list of pure-bred sires (of the four dairy breeds) which have five or more daughters with records of production. Where known, the records of the dams of these daughters are also given, offering opportunities for comparison.

Particular attention is now being given by the British Columbia Department of Agriculture to forage and pasture improvement and the soil survey branch is making progress with the classification of the orchard soils in the fruit-growing districts of the province.

### **Subsection 3.—Dominion and Provincial Agricultural Experimental Stations.**

Among the most important contributions of Canadian Governments to the development of agriculture throughout the country, is the maintenance of agricultural experimental stations, where research work in both plant and animal breeding and adaptation to climatic conditions is carried on. Already this work has had a profound effect in the improvement of Canadian agriculture. The introduction during recent years of Marquis wheat is an outstanding example, and it is of interest to note that other newer wheats, particularly Garnet, also originated by the experimental farms, may in the near future replace the Marquis in large areas. Among the earlier experiments undertaken, the results of which have passed permanently into good Canadian farm practice, may be mentioned those relating to early seeding, summer fallowing, the use of farmyard manure, the fertilizing value of clover crops and the introduction of suitable grasses and clovers. Both the common red clover and alfalfa now enter into rotations as the result of experiments and efforts to obtain hardy strains and to discover means of resistance

to winter-killing. Further experiments with earlier-ripening and drought-resisting cereals are now being carried on, each new discovery increasing the cultivable area of Canada. Other researches relate to the production of frost-resisting fruit trees for the Prairie Provinces. This research work has already had a profoundly ameliorating effect upon Canadian agriculture. Statements regarding the work now under way at the Dominion Experimental Farms and Stations and at Provincial Agricultural Colleges and Experimental Stations follow.

### (A) Dominion Experimental Farms and Stations.\*

Inaugurated in 1886 by Act of Parliament (49 Vict., c. 23), the Dominion Experimental Farms system was at first made up of the Central Farm at Ottawa and four branch farms: one at Nappan, Nova Scotia, for the Maritime Provinces; one at Brandon for Manitoba; one at Indian Head for the Northwest Territories; and one at Agassiz for British Columbia.

The opening up and rapid settlement of the Dominion have led to a corresponding increase in the number of experimental farms and stations.\* These, with an experimental fox ranch, now total 29, with a total acreage of 16,256.74, as compared with the original five farms, with a total acreage of 3,472, established in 1886. The following list shows the present number of farms and stations, with the acreage of each and the date of establishment.

DOMINION EXPERIMENTAL FARMS AND STATIONS, 1933.

| Farm or Station.                        | Province.             | Acreage. | Date<br>Estab-<br>lished. |
|-----------------------------------------|-----------------------|----------|---------------------------|
| Central Farm, Ottawa.....               | Ontario.....          | 825.5    | 1886                      |
| Kapuskasing Station.....                | Ontario.....          | 1,270    | 1910                      |
| Harrow Station.....                     | Ontario.....          | 198.3    | 1909                      |
| Charlottetown Station.....              | P.E.I.....            | 173.1    | 1909                      |
| Summerside Fox Ranch.....               | P.E.I.....            | 12       | 1925                      |
| Nappan Farm.....                        | Nova Scotia.....      | 465      | 1886                      |
| Kentville Station.....                  | Nova Scotia.....      | 452.9    | 1912                      |
| Fredericton Station.....                | New Brunswick.....    | 525      | 1912                      |
| Ste. Anne de la Pocatière Station.....  | Quebec.....           | 319      | 1911                      |
| Cap Rouge Station.....                  | Quebec.....           | 345.3    | 1911                      |
| Lennoxville Station.....                | Quebec.....           | 600      | 1914                      |
| Farnham Station.....                    | Quebec.....           | 95       | 1912                      |
| La Ferme Station.....                   | Quebec.....           | 1,200    | 1916                      |
| L'Assomption Station.....               | Quebec.....           | 160      | 1928                      |
| Brandon Farm.....                       | Manitoba.....         | 842      | 1886                      |
| Morden Station.....                     | Manitoba.....         | 614      | 1915                      |
| Indian Head Farm.....                   | Saskatchewan.....     | 1,320    | 1886                      |
| Indian Head Forest Nursery Station..... | Saskatchewan.....     | 480      | 1                         |
| Sutherland Forest Nursery Station.....  | Saskatchewan.....     | 320      | 1                         |
| Rosthern Station.....                   | Saskatchewan.....     | 650      | 1908                      |
| Melfort Station.....                    | Saskatchewan.....     | 640      | 1934                      |
| Scott Station.....                      | Saskatchewan.....     | 520      | 1910                      |
| Swift Current Station.....              | Saskatchewan.....     | 800      | 1920                      |
| Lacombe Station.....                    | Alberta.....          | 435.74   | 1907                      |
| Lethbridge Station.....                 | Alberta.....          | 500      | 1906                      |
| Windsor Station.....                    | British Columbia..... | 425      | 1923                      |
| Summerland Station.....                 | British Columbia..... | 545      | 1914                      |
| Agassiz Farm.....                       | British Columbia..... | 1,400    | 1886                      |
| Sidney Station, Vancouver island.....   | British Columbia..... | 130      | 1912                      |

\*Transferred in 1931 from the Forest Service, Department of the Interior, to the Department of Agriculture.

In addition there are 12 sub-stations, *viz.*, Regina and Rosthern, Sask.; Wainwright, Fort Vermilion and Beaverlodge, Alberta; Fort Smith, Resolution, Provi-

\*The five original farms established in 1886 are known as "Experimental Farms"; those added since are styled "Experimental Stations". No distinction in the work is implied by these titles.



dence and Good Hope, Northwest Territories; Carmacks, Yukon; Horse Farm, St. Joachim (operated from Ste. Anne de la Pocatière), and Harrington Harbour, Quebec. There is also the Dominion Range Experiment Station at Manyberries, Alberta, and a special Forage Crops Research Station at the University of Saskatchewan, Saskatoon. Experimental work under the Division of Illustration Stations is conducted on 13 farms in Prince Edward Island, 19 in Nova Scotia, 19 in New Brunswick, 53 in Quebec, 16 in Ontario, 15 in Manitoba, 30 in Saskatchewan, 22 in Alberta and 19 in British Columbia. Small experimental plots are also being operated at several points along the line of the Hudson Bay Railway.

*Organization of the System of Experimental Farms.*—The Central Farm at Ottawa, as its name implies, is the centre or headquarters of the system. Thereat are stationed the Director, having control and general supervision of the whole, and the chief technical officers, each having charge of his special line of work, both at the Central Farm and the branch farms. At Ottawa, the policy to be pursued throughout the system is settled by agreement after discussion by the Director, the technical officers, and the superintendents on whose branch farms the work is to be conducted. The technical staff at Ottawa supervises the actual experimental work at the Central Farm. At the branches, the superintendents are in charge of the carrying out of the various lines of general experiment, and also conduct experiments of local importance.

The divisions at Ottawa, which represent the different lines of work carried on throughout the system, and have each a technical officer in charge, are as follows: (1) animal husbandry; (2) bacteriology; (3) bees; (4) botany; (5) cereals; (6) chemistry; (7) extension and publicity; (8) economic fibre production; (9) field husbandry; (10) forage plants; (11) horticulture; (12) illustration stations; (13) poultry and (14) tobacco. Briefly the main lines of the work of these divisions are as follows:—

*Animal Husbandry.*—This division is concerned mainly with projects relating to the economical production of live stock and live-stock products on the farms of Canada. Demonstrational, experimental and research work in breeding, feeding, housing and management of beef cattle, dairy cattle, horses, sheep and swine and in the handling of the products of these classes of live stock on the farm constitute the main lines of work of the division.

*Bacteriology.*—The work of this division consists chiefly in research conducted in close co-operation with other divisions on problems having a bacteriological bearing. The main lines of investigation deal with questions of pure milk production and maintenance, soil fertility, the preparation and preservation of food-stuffs and fodders, bee diseases, etc. Assistance is given to farmers through the preparation and distribution of cultures of legume bacteria for seed inoculation. Further service is rendered through the bacteriological analysis of water, milk, foods and feeding stuffs, soils and many other materials.

*Bees.*—The work of the Bee Division is divided into three parts: (1) Experimental and research work related to the care and management of bees. This includes the investigation of such problems as swarm control, wintering, bee diseases, queen breeding, etc. (2) Honey investigations. In co-operation with other divisions a thorough examination of Canadian honeys is being made and projects relating to the storage of this commodity are being conducted. In addition, the inspection of honey for export trade is being carried on. (3) The dissemination of information by means of bulletins, pamphlets, press articles, correspondence, lectures, etc., to beekeepers throughout Canada.



*Botany.*—The work of this division deals with two main phases, economic botany and plant pathology. The former comprises a study of plants of use in agriculture, including medicinal and poisonous plants and plants of general economic value. Considerable attention is being given to a Dominion-wide survey of weeds and a study of the life history of the more important kinds. Many phases pertaining to this section of work are carried on co-operatively with other services in the Department. Pollination studies, pasture investigations, etc., are being carried on under a well-devised policy. A herbarium is maintained, which is becoming increasingly valuable as a reference collection not only for the use of the Department, but also for students and colleges. For reference purposes an extensive collection of seeds has been accumulated, and constitutes one of the most valuable in the Dominion. It comprises representative collections of seeds of plants occurring all over the globe.

The plant pathology section is devoted to research on diseases caused by fungi and bacteria occurring on each and every kind of plant, whether constituting our natural resources, including forestry, or grown for special purposes. Without a recognition of the most up-to-date and modern means used in plant pathology, immense national losses would result. Many instances might be quoted to indicate that modern methods of control and prevention have been responsible for a substantial reduction in the cost of production of all kinds of crop plants.

At Ottawa the Central Plant Pathological Laboratory serves as headquarters for the Dominion. At the same time, besides undertaking special phases of mycological research, the Central Laboratory directs the policy of a series (10) of branch laboratories extending from coast to coast and dealing with the important phases of work of local interest and importance. Among these laboratories, the Dominion Grain Rust Research Laboratory at Winnipeg may be specially mentioned, as an example of a centre of close co-operation between Dominion and Provincial agencies in the study and prevention of losses from grain rust. Three of the branch laboratories deal with the fruit industry, *viz.*: Kentville, N.S., St. Catharines, Ont., and Summerland, B.C. Field crop and potato diseases are dealt with mainly at Charlottetown, P.E.I., and Fredericton, N.B., while Edmonton, Saskatoon, and the Winnipeg laboratory already referred to, are concerned with the diseases of grain most important economically, *viz.*, smuts, rusts, foot and root rots, etc. Saanichton, B.C., serves the interests of Vancouver island and the Fraser valley.

The Central Laboratory directs a Dominion-wide plant disease survey, keeping a close watch on the progress of diseases and enabling steps to be taken without delay to prevent the unsuspected establishment of the insidious enemies of agriculture throughout the Dominion.

The seed potato certification service is also directed from these headquarters and its aggressive policy has secured most valuable export markets for the Dominion.

The National Mycological Herbarium and a unique collection of forest pathological and wood-destroying fungi, both of specimens and living cultures may be mentioned as outstanding among reference collections.

In addition to these more or less specialized research phases of work, the importation of plants and plant products is closely supervised to prevent entry of destructive plant diseases. Thus there exists a plant pathological service devoted to the maintenance of health and quality of every agricultural commodity produced in Canada.

*Cereals.*—The chief functions of the Cereal Division may be enumerated as follows: (1) the production of superior varieties of cereal and leguminous grains

by a process of breeding and selection; (2) the importation and testing of promising varieties from other countries; (3) the production of *élite* stock seed of registerable varieties of grain for propagation by members of the Canadian Seed Growers' Association; (4) the evaluation of various crop combinations which may prove especially desirable for specific purposes; (5) the systematic description and study of leading varieties; (6) the verification of the genuineness and purity of seed stocks submitted for the purpose; (7) the investigation of varieties of grain for which a licence has been requested, in accordance with the Canada Seeds Act; (8) the identification of varieties submitted by farmers and others; (9) the encouragement of the use of good seed of adapted varieties through the use of exhibits, press articles and public addresses; (10) the investigation of special problems which have a bearing on cereal breeding and development work.

Probably the most important problem which the division has in hand at the moment is an attempt to develop for Western Canada a variety of hard red spring wheat capable of resisting the ravages of stem rust. This work, which is centralized chiefly at the Rust Laboratory at Winnipeg, appears to be progressing rapidly toward the goal desired.

*Chemistry.*—Investigations towards the solution of problems affecting Canadian agriculture and direct assistance to farmers, market gardeners, provincial agricultural representatives and others through correspondence and analysis, constitute the two chief phases of the division's activities. Further important work includes the official chemical examination of food products submitted by the Health of Animals Branch, the Dairy and Cold Storage Branch and the Fruit Branch—about 2,000 samples in all. The division also renders chemical assistance to a number of branches of the Government service, *e.g.*, the National Parks Branch, Department of the Interior; the Department of Marine and the Department of Fisheries.

*Extension and Publicity.*—This division edits and prepares for printing all publications issued by the Experimental Farms, prepares and stages educational exhibits at fairs and exhibitions throughout Canada, maintains and operates a lending bureau of educational lantern slides, issues annually to the press about 200 timely and seasonal articles, and in various other ways makes the work of the farms as widely known as possible.

*Economic Fibre Plants.*—Extensive field and mill experiments are carried out with the best varieties of fibre flax and hemp on the Experimental Farm plot fields at Ottawa and several of the branch farms. The division renders valuable marketing services to the Canadian flax growers by serving as a medium for trade with Ireland. Increasing amounts of fibre seed are being sold in the Irish market each year.

*Field Husbandry.*—Experiments are being conducted by this division in order to learn the most suitable crop rotations and crop sequences for various parts of Canada. Information is being secured on the newest and best methods of preparing the land for different crops, as well as on the most efficient methods of seeding and harvesting. Investigations are in progress in regard to drainage, to irrigation and learning the most efficient methods of conserving and utilizing soil moisture in the Prairie Provinces.

How to control the noxious weeds which cause such serious economic losses in many parts of Canada is an important problem studied by means of various cropping systems, cultivation methods and applications of chemicals. How to improve the carrying capacity of unproductive pasture land is another project under investigation. The cost of operating tractors, the value of new types of farm machinery,

and the cost of producing various farm crops is being studied. Comprehensive trials with various silage crops are being continued in order to secure the most reliable information on the proper time and method of ensiling corn, sunflowers, red clover, sweet clover, alfalfa, buckwheat, cereals and other farm crops. To determine the most economical means of using farm manure and commercial fertilizers for farm crops is the object of another group of field husbandry experiments.

*Forage Plants.*—This division has for its work the improvement of forage plants by breeding, the technique of seed production, principles of compounding seeds mixtures, response of different species to grazing, the introduction and testing of new species, and related problems. These studies cover a wide range of crop plants including herbage grasses and legumes, corn, sunflowers, field roots, sugar beets, soya beans, and cereals for forage. Research work with crops that are adapted to Eastern Canada is centered at Ottawa. In Western Canada the Dominion Forage Crops Laboratory has been established at Saskatoon, Sask., in co-operation with the University of Saskatchewan, for the purpose of developing early-maturing, hardy, and drought-resistant strains of herbage plants adapted to the Prairie Provinces. At the Dominion Range Experiment Station at Manyberries, Alberta, range investigations are in progress to study changes in the natural vegetation under different systems of grazing and other feed problems associated with range management.

*Horticulture.*—The Division of Horticulture deals with fruit growing, vegetable gardening and with ornamental plants. The breeding of new varieties has been an important feature of the work of this division. Some of the outstanding fruits originated there which are being planted in Canada are: apples—Melba, Joyce, Hume, Lobo, Linda and Sandow; raspberries—Brighton and Count; strawberries—Cassandra and Portia, and of vegetables: corn—Banting and Pickaninny; egg plant—Blackie; rhubarb—Ruby; tomato—Abel, Alacrity, Bestal and Herald.

Valuable research work in cider making is being done in this division and cold storage experiments with fruits are in progress. The division co-operates with farmers in orchard experiments and blueberry and cranberry investigations. Research in plant nutrition is also an important line of work.

*Illustration Stations.*—By comparative demonstration the Division of Illustration Stations is carrying forward a co-operative program of crop introduction and improvement on some 206 privately-owned farms. These stations are located in the different provinces, primarily in newly-settled agricultural communities, where the most suitable varieties and crops are not being grown, or in the older settled districts, which have developed acute problems in crop production, resulting from weed infestation, soil drifting, depletion of soil fertility, as well as many other varying factors, which limit crop growth. As centres for production of seed grain, seed potatoes, grasses and clover seeds from the most suitable and hardy varieties, the illustration stations have accomplished a great deal and have established leadership in the community in general farm improvement, including live stock, building and home beautification.

*Poultry.*—While past conditions called for work largely along practical demonstrational lines, the present demands more scientific investigation, particularly in the studies of nutrition, disease and breeding problems. To meet these requirements, trained men have been added to the staff and, through the co-operation of the Health of Animals Branch, additional assistance has been supplied for the study of disease, so that the division is equipped as never before to assist the industry as a



whole and the individual poultryman in particular in solving the various problems that are continually arising in this rapidly growing field. In addition, the registration of poultry has increased throughout the whole Dominion.

*Tobacco.*—The Tobacco Division is concerned with investigational and research work in connection with the tobacco industry of Canada. This includes active research on problems of fertilizers and soils; breeding, selection and standardization of varieties; cultural methods; curing and fermentation; diseases and insects; marketing; exhibitions and educational work. Through a closer co-ordination between Dominion, provincial and industrial agencies the industry has made great progress during the past five years, both in the domestic and export markets. The research work of the Dominion tobacco service was completely reorganized in 1929 and subsequently; a co-operative relationship has been developed with the Department of Trade and Commerce with a view to opening up new outlets for Canadian leaf; joint committees, consisting of Dominion and provincial officials, growers and members of the trade, have been set up in Ontario and Quebec to further the interests of the industry. In general, the Tobacco Division renders assistance in the development of Canadian tobacco production along sound economic lines.

In addition to the work done by the Divisions of Extension and Publicity and Illustration Stations, the results of the work of the Experimental Farms are made available to the farmer: (1) by correspondence; (2) by publications; and (3) by articles in newspapers. The farm officers devote considerable time each year to lecturing, demonstrating, judging at fairs and assisting at short courses in agriculture. Excursions to the various farms are also a valuable means of bringing the work to the attention of the farmer.

#### **(B) Provincial Agricultural Colleges and Experimental Stations.**

Under the above heading, outlines of the work done at provincial agricultural colleges and experimental stations were given by provinces at pp. 198-203 inclusive of the 1930 Year Book. The interested reader is referred to that volume, and to the following provincial publications for information concerning courses and programs of work at these institutions:—

*Nova Scotia.*—Annual Report of the Department of Natural Resources for Nova Scotia; College Prospectus of the College of Agriculture, Truro, N.S.

*Quebec.*—The Annual Report of Macdonald College, Ste. Anne de Bellevue, Quebec, and the prospectuses and annual announcements of the School of Agriculture, Ste. Anne de la Pocatière, and the Oka Agricultural Institute, Lake of Two Mountains, Quebec.

*Ontario.*—Annual Report of the Ontario Agricultural College and Experimental Farm, Guelph, Ont.

*Manitoba.*—Annual Report of the Manitoba Agricultural College, Winnipeg, Man.

*Saskatchewan.*—Annual Report of the College of Agriculture, University of Saskatchewan, Saskatoon, Sask.

*Alberta.*—Annual Report of the College of Agriculture, University of Alberta, Edmonton, Alberta.

*British Columbia.*—Annual Report of the Faculty of Agriculture, University of British Columbia, Vancouver, B.C.



## Section 2.—Statistics of Agriculture.\*

**Census Statistics.**—In addition to the statistics collected annually, which are the subject of this section, valuable information is published, following each decennial census, on such subjects as the total number of farms, their tenure, acreage, value, mortgage debt, etc. In this volume of the Year Book, the latest information compiled to date on these subjects will be found in Subsection 10, pp. 295-301.

**Crop-Reporting Service.**—The voluntary crop-reporting service of the Dominion Government, which has been in operation since 1908, has for its object the issue of accurate, timely and independent reports on crop conditions throughout the Dominion; first, in the interests of the general body of Canadian farmers; secondly, for the information and guidance of other interests allied to and dependent upon agriculture (interests represented by statesmen, economists, bankers, grain dealers, transportation agents and others); and thirdly, for reporting to the Institute of Agriculture at Rome (to which Canada is an adhering country), in return for reports on the production of other countries and of world totals which influence prices and consequently affect the interests of Canada. Supplementing the monthly reports from crop correspondents, the Bureau issues telegraphic crop reports utilizing the services of agriculturists throughout the Dominion. For the Prairie Provinces, these are issued every week from the first of June to the first of September, while the reports on a Dominion-wide basis are issued every two weeks during the same period. The program of reports for 1935-36 is given in the Monthly Bulletin of Agricultural Statistics, January, 1935, pp. 38-40, and is also issued as a special leaflet.

**Annual Statistics.**—In addition to the crop-reporting service, statistics of the areas under field crops and of the numbers of farm live stock are collected. These arrangements have been in force since 1918, and are carried out by the Dominion Bureau of Statistics in co-operation with the Provincial Governments. The statistics are secured by simple schedules which are at present returned by about one-fifth of the farmers of Canada. They form the basis of the estimates for the whole of Canada. The results for wheat, oats, barley, rye and flax in the three Prairie Provinces are ready for publication in August, while the results for the remaining crops and for the numbers of farm live stock are published in November and December. The areas, thus determined, when multiplied by the average yields per acre as reported by crop correspondents, form the basis of the total estimated production for each crop.

The June schedule covers the areas sown to field crops, the numbers of live stock and poultry on hand and breeding and marketing intentions with regard to live stock and poultry. The December schedule contains the same items with the exception of field crop areas.

The schedules are distributed and collected through the agency of the rural schools in New Brunswick, Quebec, Ontario, Manitoba and Saskatchewan, while in Prince Edward Island, Nova Scotia, Alberta and British Columbia the schedules are sent direct to the farmer through the mail.

\* Revised under the direction of Dr. T. W. Grindley, Chief of the Agricultural Branch, Dominion Bureau of Statistics. This Branch is concerned with both primary and secondary statistics of agriculture, including statistics of the production and distribution of agricultural commodities. The primary statistics relate mainly to the reporting of crop conditions, crop and live-stock estimates, values of farm lands, wages of farm labour, and monthly and annual prices received by farmers for their products. The secondary statistics relate to the marketing of grain and live stock, and reports on the milling and sugar industries and cold-storage holdings. A list of the publications of this Branch is given in Chapter XXIX, Section I, under "Production".

**Monthly Bulletin of Agricultural Statistics.**—Originally established in 1908 as the "Census and Statistics Monthly", but changed to its present title in April, 1917, this publication is now in its twenty-eighth year. It is the official organ, not only for the monthly crop reports and annual statistics previously described, but also for statistics of dairying, fur farming, fruit, hives and honey, hops, tobacco, maple products, sugar beets, beet sugar, flax fibre, clover and grass seeds, visible supplies, prices, values, foreign agriculture and other subjects in considerable variety.

**Presentation of Agricultural Statistics.**—In the current edition of the Year Book, statistics of agriculture are presented under the following headings: (1) agricultural revenue and wealth; (2) acreage, yield and value of principal field crops, distribution of the wheat and oat crops, etc.; (3) farm live stock and poultry; (4) fur farming; (5) dairying; (6) horticulture; (7) special agricultural crops; (8) farm labour and wages; (9) prices of agricultural produce; (10) agricultural statistics of the census; (11) miscellaneous agricultural statistics; (12) principal agricultural statistics of the world.

### Subsection 1.—Agricultural Revenue and Wealth.

**Revenue.**—Table 1 shows under principal headings the gross agricultural revenue of Canada, by provinces, for the years 1929 to 1933. It is important to note that the figures represent gross values, as no distinction is made between crops used as materials for other kinds of production, such as the feeding of live stock, and no allowance is made for the costs of production.

#### 1.—Estimated Gross Annual Agricultural Revenue of Canada, Itemized by Provinces, 1929-33 ('000' omitted.)

**Note.**—Preliminary figures for 1934 and revised figures for 1930-33 will be found in the Monthly Bulletin of Agricultural Statistics, March, 1935.

| Item.                        | 1929.            | 1930.            | 1931.                      | 1932.                      | 1933.          |
|------------------------------|------------------|------------------|----------------------------|----------------------------|----------------|
|                              | \$               | \$               | \$                         | \$                         | \$             |
| <b>Canada—</b>               |                  |                  |                            |                            |                |
| Field crops.....             | 948,981          | 662,041          | 432,199                    | 452,527 <sup>1</sup>       | 422,148        |
| Farm animals.....            | 207,317          | 166,630          | 96,778                     | 65,185 <sup>1</sup>        | 89,063         |
| Wool.....                    | 4,470            | 2,311            | 1,644                      | 1,093                      | 2,000          |
| Dairy products.....          | 291,743          | 269,844          | 191,390 <sup>1</sup>       | 159,074 <sup>1</sup>       | 167,488        |
| Fruits and vegetables.....   | 46,398           | 49,417           | 39,692                     | 32,157 <sup>1</sup>        | 31,700         |
| Poultry and eggs.....        | 107,664          | 95,227           | 56,298 <sup>1</sup>        | 42,078 <sup>1</sup>        | 35,880         |
| Fur farming.....             | 6,791            | 4,925            | 3,557                      | 3,284 <sup>1</sup>         | 3,535          |
| Maple products.....          | 6,119            | 5,251            | 3,456 <sup>1</sup>         | 2,706 <sup>1</sup>         | 2,059          |
| Tobacco.....                 | 6,276            | 7,058            | 7,178                      | 6,088                      | 5,201          |
| Flax fibre.....              | 393              | 371              | 179                        | 170                        | 159            |
| Clover and grass seed.....   | 2,123            | 2,482            | 1,497                      | 962                        | 1,362          |
| Honey.....                   | 2,806            | 2,584            | 2,246                      | 1,470 <sup>1</sup>         | 1,707          |
| <b>Totals.....</b>           | <b>1,631,061</b> | <b>1,268,141</b> | <b>836,114<sup>1</sup></b> | <b>766,794<sup>1</sup></b> | <b>762,302</b> |
| <b>Prince Edward Island—</b> |                  |                  |                            |                            |                |
| Field crops.....             | 16,940           | 10,973           | 6,829                      | 6,737 <sup>1</sup>         | 8,841          |
| Farm animals.....            | 2,405            | 2,212            | 1,005                      | 715 <sup>1</sup>           | 945            |
| Wool.....                    | 122              | 50               | 35                         | 24                         | 42             |
| Dairy products.....          | 2,955            | 2,500            | 1,773 <sup>1</sup>         | 1,446 <sup>1</sup>         | 1,488          |
| Fruits and vegetables.....   | 253              | 149              | 118                        | 98                         | 79             |
| Poultry and eggs.....        | 1,523            | 1,461            | 870 <sup>1</sup>           | 611 <sup>1</sup>           | 674            |
| Fur farming.....             | 1,741            | 1,010            | 779                        | 521 <sup>1</sup>           | 560            |
| Clover and grass seed.....   | 35               | 43               | 4                          | 9                          | 13             |
| Honey.....                   | 2                | 1                | 4                          | 1                          | 1              |
| <b>Totals.....</b>           | <b>25,976</b>    | <b>18,399</b>    | <b>11,414<sup>1</sup></b>  | <b>10,162<sup>1</sup></b>  | <b>12,643</b>  |

<sup>1</sup>Revised since the publication of the 1933 Year Book.

1.—Estimated Gross Annual Agricultural Revenue of Canada, Itemized by Provinces, 1929-33 ("000" omitted.)—continued.

| Item.                      | 1929.          | 1930.          | 1931.                      | 1932.                      | 1933.          |
|----------------------------|----------------|----------------|----------------------------|----------------------------|----------------|
|                            | \$             | \$             | \$                         | \$                         | \$             |
| <b>Nova Scotia—</b>        |                |                |                            |                            |                |
| Field crops.....           | 20,945         | 16,647         | 10,087                     | 9,064 <sup>1</sup>         | 11,385         |
| Farm animals.....          | 4,687          | 4,186          | 2,313                      | 1,833 <sup>1</sup>         | 1,098          |
| Wool.....                  | 364            | 197            | 111                        | 56                         | 89             |
| Dairy products.....        | 11,484         | 10,258         | 6,203 <sup>1</sup>         | 5,354 <sup>1</sup>         | 4,941          |
| Fruits and vegetables..... | 3,628          | 4,042          | 3,870                      | 2,440 <sup>1</sup>         | 3,504          |
| Poultry and eggs.....      | 1,905          | 1,819          | 1,179 <sup>1</sup>         | 872 <sup>1</sup>           | 919            |
| Fur farming.....           | 346            | 325            | 228                        | 254 <sup>1</sup>           | 274            |
| Maple products.....        | 56             | 36             | 29 <sup>1</sup>            | 47 <sup>1</sup>            | 27             |
| Clover and grass seed..... | 10             | 10             | —                          | —                          | —              |
| Honey.....                 | 7              | 7              | 9                          | 6                          | 6              |
| <b>Totals.....</b>         | <b>43,412</b>  | <b>37,527</b>  | <b>24,029<sup>1</sup></b>  | <b>19,932<sup>1</sup></b>  | <b>23,143</b>  |
| <b>New Brunswick—</b>      |                |                |                            |                            |                |
| Field crops.....           | 23,835         | 18,554         | 10,670                     | 12,629                     | 12,396         |
| Farm animals.....          | 3,647          | 3,746          | 3,214                      | 2,147 <sup>1</sup>         | 2,129          |
| Wool.....                  | 191            | 89             | 81                         | 45                         | 77             |
| Dairy products.....        | 8,734          | 7,730          | 5,466 <sup>1</sup>         | 4,047 <sup>1</sup>         | 4,318          |
| Fruits and vegetables..... | 999            | 1,027          | 966                        | 697                        | 610            |
| Poultry and eggs.....      | 1,720          | 1,714          | 1,237 <sup>1</sup>         | 1,062 <sup>1</sup>         | 998            |
| Fur farming.....           | 715            | 624            | 498                        | 523 <sup>1</sup>           | 563            |
| Maple products.....        | 38             | 27             | 47 <sup>1</sup>            | 44 <sup>1</sup>            | 44             |
| Clover and grass seed..... | 18             | 12             | —                          | 3                          | 7              |
| Honey.....                 | 22             | 11             | 10                         | 5                          | 6              |
| <b>Totals.....</b>         | <b>39,919</b>  | <b>33,534</b>  | <b>22,189<sup>1</sup></b>  | <b>21,202<sup>1</sup></b>  | <b>21,148</b>  |
| <b>Quebec—</b>             |                |                |                            |                            |                |
| Field crops.....           | 153,664        | 120,366        | 73,478                     | 70,382                     | 67,524         |
| Farm animals.....          | 41,001         | 32,300         | 19,729                     | 12,496 <sup>1</sup>        | 13,868         |
| Wool.....                  | 1,320          | 745            | 534                        | 332                        | 491            |
| Dairy products.....        | 86,698         | 83,630         | 46,069 <sup>1</sup>        | 39,953 <sup>1</sup>        | 43,193         |
| Fruits and vegetables..... | 7,974          | 7,325          | 6,465                      | 5,345 <sup>1</sup>         | 4,814          |
| Poultry and eggs.....      | 14,407         | 13,513         | 7,977 <sup>1</sup>         | 6,487 <sup>1</sup>         | 5,559          |
| Fur farming.....           | 2,104          | 1,258          | 693                        | 665 <sup>1</sup>           | 716            |
| Maple products.....        | 4,767          | 3,612          | 1,817                      | 1,727                      | 1,268          |
| Tobacco.....               | 1,210          | 792            | 336                        | 329                        | 270            |
| Clover and grass seed..... | 115            | 89             | 154                        | 110                        | 70             |
| Honey.....                 | 435            | 455            | 595                        | 216                        | 448            |
| <b>Totals.....</b>         | <b>313,695</b> | <b>264,065</b> | <b>157,847<sup>1</sup></b> | <b>138,042<sup>1</sup></b> | <b>138,221</b> |
| <b>Ontario—</b>            |                |                |                            |                            |                |
| Field crops.....           | 241,778        | 179,919        | 124,541                    | 116,424 <sup>1</sup>       | 124,565        |
| Farm animals.....          | 76,022         | 60,738         | 33,486                     | 21,957 <sup>1</sup>        | 31,500         |
| Wool.....                  | 1,323          | 632            | 458                        | 287                        | 553            |
| Dairy products.....        | 115,757        | 103,194        | 82,155 <sup>1</sup>        | 69,079 <sup>1</sup>        | 70,606         |
| Fruits and vegetables..... | 19,208         | 20,207         | 16,424                     | 12,733 <sup>1</sup>        | 12,555         |
| Poultry and eggs.....      | 44,773         | 41,461         | 25,067 <sup>1</sup>        | 18,565 <sup>1</sup>        | 16,864         |
| Fur farming.....           | 777            | 817            | 603                        | 644 <sup>1</sup>           | 693            |
| Maple products.....        | 1,258          | 1,576          | 1,563 <sup>1</sup>         | 888 <sup>1</sup>           | 720            |
| Tobacco.....               | 5,039          | 6,244          | 6,814                      | 5,703                      | 4,873          |
| Flax fibre.....            | 393            | 371            | 179                        | 170                        | 159            |
| Clover and grass seed..... | 1,672          | 1,855          | 1,110                      | 615                        | 1,079          |
| Honey.....                 | 1,208          | 870            | 824                        | 619 <sup>1</sup>           | 595            |
| <b>Totals.....</b>         | <b>509,208</b> | <b>417,884</b> | <b>293,224<sup>1</sup></b> | <b>247,684<sup>1</sup></b> | <b>264,762</b> |
| <b>Manitoba—</b>           |                |                |                            |                            |                |
| Field crops.....           | 78,919         | 52,975         | 24,847                     | 31,937 <sup>1</sup>        | 33,188         |
| Farm animals.....          | 14,367         | 11,846         | 6,911                      | 4,468 <sup>1</sup>         | 6,308          |
| Wool.....                  | 162            | 120            | 60                         | 28                         | 84             |
| Dairy products.....        | 14,404         | 15,007         | 11,198 <sup>1</sup>        | 8,751 <sup>1</sup>         | 10,796         |
| Fruits and vegetables..... | 1,464          | 1,644          | 1,281                      | 986 <sup>1</sup>           | 876            |
| Poultry and eggs.....      | 8,920          | 7,998          | 4,600 <sup>1</sup>         | 3,395 <sup>1</sup>         | 2,207          |
| Fur farming.....           | 374            | 263            | 185                        | 160 <sup>1</sup>           | 179            |
| Clover and grass seed..... | 40             | 184            | 87                         | 50                         | 45             |
| Honey.....                 | 822            | 910            | 516                        | 412                        | 304            |
| <b>Totals.....</b>         | <b>119,472</b> | <b>90,947</b>  | <b>49,695<sup>1</sup></b>  | <b>50,193<sup>1</sup></b>  | <b>53,987</b>  |

<sup>1</sup>Revised since the publication of the 1933 Year Book.

**1.—Estimated Gross Annual Agricultural Revenue of Canada, Itemized by Provinces, 1929-33 ("000" omitted.)—concluded.**

| Item.                      | 1929.          | 1930.          | 1931.                      | 1932.                      | 1933.          |
|----------------------------|----------------|----------------|----------------------------|----------------------------|----------------|
|                            | \$             | \$             | \$                         | \$                         | \$             |
| <b>Saskatchewan—</b>       |                |                |                            |                            |                |
| Field crops.....           | 235,248        | 135,695        | 70,347                     | 98,217 <sup>1</sup>        | 75,767         |
| Farm animals.....          | 25,150         | 20,744         | 12,490                     | 8,984 <sup>1</sup>         | 12,711         |
| Wool.....                  | 226            | 108            | 80                         | 74                         | 206            |
| Dairy products.....        | 23,125         | 19,847         | 13,665 <sup>1</sup>        | 11,186 <sup>1</sup>        | 12,313         |
| Fruits and vegetables..... | 1,850          | 2,584          | 2,053                      | 1,674                      | 1,371          |
| Poultry and eggs.....      | 13,454         | 10,121         | 6,164 <sup>1</sup>         | 4,841 <sup>1</sup>         | 3,765          |
| Fur farming.....           | 127            | 152            | 154                        | 121 <sup>1</sup>           | 130            |
| Clover and grass seed..... | 50             | 85             | 10                         | 62                         | 54             |
| Honey.....                 | 74             | 108            | 73                         | 46                         | 100            |
| <b>Totals.....</b>         | <b>299,304</b> | <b>189,444</b> | <b>105,036<sup>1</sup></b> | <b>125,205<sup>1</sup></b> | <b>106,417</b> |
| <b>Alberta—</b>            |                |                |                            |                            |                |
| Field crops.....           | 157,254        | 110,284        | 98,916                     | 95,913 <sup>1</sup>        | 76,364         |
| Farm animals.....          | 32,271         | 24,422         | 14,584                     | 10,255 <sup>1</sup>        | 16,939         |
| Wool.....                  | 519            | 250            | 228                        | 195                        | 359            |
| Dairy products.....        | 18,928         | 17,676         | 15,764 <sup>1</sup>        | 11,859 <sup>1</sup>        | 12,724         |
| Fruits and vegetables..... | 1,800          | 2,173          | 1,741                      | 1,426                      | 1,203          |
| Poultry and eggs.....      | 11,880         | 10,147         | 5,229 <sup>1</sup>         | 3,613 <sup>1</sup>         | 2,648          |
| Fur farming.....           | 340            | 303            | 298                        | 300 <sup>1</sup>           | 323            |
| Clover and grass seed..... | 176            | 171            | 83                         | 77                         | 55             |
| Honey.....                 | 78             | 99             | 92                         | 44                         | 90             |
| <b>Totals.....</b>         | <b>223,246</b> | <b>165,525</b> | <b>136,935<sup>1</sup></b> | <b>123,682<sup>1</sup></b> | <b>110,705</b> |
| <b>British Columbia—</b>   |                |                |                            |                            |                |
| Field crops.....           | 20,398         | 16,628         | 12,484                     | 11,224 <sup>1</sup>        | 12,118         |
| Farm animals.....          | 7,767          | 6,436          | 3,046                      | 2,330 <sup>1</sup>         | 2,665          |
| Wool.....                  | 243            | 120            | 57                         | 52                         | 99             |
| Dairy products.....        | 9,678          | 10,002         | 9,097 <sup>1</sup>         | 7,399 <sup>1</sup>         | 7,109          |
| Fruits and vegetables..... | 9,222          | 10,266         | 6,774                      | 6,758 <sup>1</sup>         | 6,688          |
| Poultry and eggs.....      | 9,082          | 6,993          | 3,975 <sup>1</sup>         | 2,626 <sup>1</sup>         | 2,246          |
| Fur farming.....           | 267            | 173            | 109                        | 90 <sup>1</sup>            | 97             |
| Tobacco.....               | 27             | 22             | 28                         | 56                         | 58             |
| Clover and grass seed..... | 7              | 33             | 49                         | 36                         | 39             |
| Honey.....                 | 158            | 123            | 126                        | 121                        | 157            |
| <b>Totals.....</b>         | <b>56,849</b>  | <b>50,796</b>  | <b>35,745<sup>1</sup></b>  | <b>30,692<sup>1</sup></b>  | <b>31,276</b>  |

<sup>1</sup> Revised since publication of 1933 Year Book.

Table 1 shows that in 1933 the estimated gross agricultural revenue of Canada was \$762,302,000 as compared with \$766,794,000 in 1932, \$836,114,000 in 1931, \$1,268,141,000 in 1930 and \$1,631,081,000 in 1929. The total for 1933 shows a decrease of \$4,492,000 or 0.6 p.c. as compared with 1932. The upward movement of farm prices since the above valuations were made suggests an upward revision for 1933 revenue when new figures are compiled in March, 1935. \*

**Wealth.**—Table 2 shows approximately, by provinces, the gross agricultural wealth of the Dominion in 1933.

**2.—Estimated Gross Agricultural Wealth of Canada, by Provinces, 1933.**  
(“000” omitted.)

| Province.             | Lands.           | Buildings        | Imple-<br>ments and<br>Machinery. | Live<br>Stock. | Poultry.      | Animals<br>on<br>Fur<br>Farms. | Agricul-<br>tural Pro-<br>duction. | Total.           |
|-----------------------|------------------|------------------|-----------------------------------|----------------|---------------|--------------------------------|------------------------------------|------------------|
|                       | \$               | \$               | \$                                | \$             | \$            | \$                             | \$                                 | \$               |
| P.E. Island.....      | 18,250           | 19,687           | 8,116                             | 4,564          | 609           | 1,013                          | 12,643                             | 64,882           |
| Nova Scotia.....      | 34,512           | 43,890           | 10,554                            | 10,829         | 738           | 389                            | 23,143                             | 124,055          |
| New Brunswick.....    | 33,916           | 38,680           | 13,253                            | 11,144         | 894           | 669                            | 21,148                             | 119,704          |
| Quebec.....           | 329,558          | 257,918          | 97,270                            | 70,968         | 5,054         | 1,517                          | 138,221                            | 900,506          |
| Ontario.....          | 441,372          | 487,009          | 151,928                           | 128,100        | 14,637        | 1,505                          | 264,762                            | 1,489,313        |
| Manitoba.....         | 150,162          | 88,389           | 54,847                            | 32,693         | 2,363         | 547                            | 53,987                             | 382,988          |
| Saskatchewan.....     | 573,854          | 223,795          | 185,510                           | 69,744         | 4,154         | 376                            | 106,417                            | 1,163,850        |
| Alberta.....          | 367,088          | 137,332          | 116,301                           | 60,991         | 3,080         | 864                            | 110,705                            | 796,361          |
| British Columbia..... | 84,057           | 46,224           | 12,885                            | 14,102         | 1,927         | 382                            | 31,276                             | 190,853          |
| <b>Totals.....</b>    | <b>2,032,769</b> | <b>1,342,921</b> | <b>650,664</b>                    | <b>403,135</b> | <b>33,456</b> | <b>7,262</b>                   | <b>762,302</b>                     | <b>5,232,512</b> |



In this table, full use is made of the recently published results of the Census of 1931 giving the values of lands, buildings, and implements and machinery. The 1933 figures quoted for buildings and for implements and machinery correspond with the values quoted in the 1931 returns. These items change very little in value. The 1933 figures for value of lands are based on the 1931 census figures but are corrected to 1933 levels by the use of the annual estimates of farm land values. The other four items—live stock, poultry, animals on fur farms and agricultural production—are estimates for 1933.

The gross agricultural wealth of Canada for 1933 is estimated at approximately \$5,232,512,000 as compared with \$5,209,760,000, the revised estimate for 1932.

### Subsection 2.—Acreages, Yields and Values of Field Crops.

**The Chief Field Crops of the Latest Ten Years.**—In Table 3 will be found a summary statement of the acreages, yields and values of wheat, oats, barley, rye, buckwheat, flaxseed, potatoes, hay and clover and alfalfa for the latest 10 years. Comparative figures back to 1908, given at pp. 230-232 of the 1929 Year Book, indicate the recent growth of Canadian agriculture. In particular may be noted the tripling of the wheat crop, the almost doubling of the oat crop, the tripling of the barley crop, the thirteenfold increase in the rye crop, the 40 p.c. addition to the hay and clover crop and the sevenfold increase in the alfalfa crop within the past 25 years, disregarding the 1931 to 1934 crops as not, by any means, representing maximum yields. On the other hand, the acreages and yields of the potato crop have not shown a wide variation throughout the period, presumably because this crop is produced mainly for home consumption. Those who desire figures for earlier years will find certain information on acreage, yield and value in the Statistical Summary of the Progress of Canada at the beginning of this volume.

### 3.—Acreages, Yields and Values of Principal Crops Grown in Canada, 1925-34.<sup>1</sup>

| Crop and Year. | Area.               | Yield<br>per Acre. | Total<br>Yield.      | Average<br>Price. | Total<br>Value.      |
|----------------|---------------------|--------------------|----------------------|-------------------|----------------------|
|                | 000<br>acres.       | bush.              | 000<br>bush.         | \$<br>per bush.   | 000<br>\$            |
| Wheat—         |                     |                    |                      |                   |                      |
| 1925.....      | 20,790              | 19.0               | 395,475              | 1.23              | 487,736              |
| 1926.....      | 22,896              | 17.8               | 407,136              | 1.09              | 442,221              |
| 1927.....      | 22,460              | 21.4               | 479,665              | 1.00              | 477,791              |
| 1928.....      | 24,119              | 23.5               | 566,726              | 0.80              | 451,235              |
| 1929.....      | 25,255              | 12.1               | 304,520              | 1.05              | 319,715              |
| 1930.....      | 24,898              | 16.9               | 420,672              | 0.49              | 204,693              |
| 1931.....      | 26,355 <sup>2</sup> | 12.2 <sup>2</sup>  | 321,325              | 0.38              | 123,550              |
| 1932.....      | 27,182              | 16.3 <sup>2</sup>  | 443,061 <sup>2</sup> | 0.35 <sup>2</sup> | 154,760 <sup>2</sup> |
| 1933.....      | 25,991              | 10.8               | 281,892              | 0.49              | 136,958              |
| 1934.....      | 23,985              | 11.5               | 275,849              | 0.59              | 163,972              |
| Oats—          |                     |                    |                      |                   |                      |
| 1925.....      | 12,556              | 32.0               | 402,296              | 0.42              | 167,171              |
| 1926.....      | 12,741              | 30.1               | 383,416              | 0.48              | 184,098              |
| 1927.....      | 13,240              | 33.2               | 439,713              | 0.51              | 225,879              |
| 1928.....      | 13,137              | 34.4               | 452,153              | 0.47              | 210,956              |
| 1929.....      | 12,470              | 22.7               | 282,838              | 0.59              | 168,017              |
| 1930.....      | 13,259              | 31.9               | 423,148              | 0.24              | 102,919              |
| 1931.....      | 12,838 <sup>2</sup> | 25.6 <sup>2</sup>  | 328,278              | 0.24              | 77,970               |
| 1932.....      | 13,148              | 29.8               | 391,561              | 0.19 <sup>2</sup> | 75,988 <sup>2</sup>  |
| 1933.....      | 13,529              | 22.7               | 307,478              | 0.26              | 79,818               |
| 1934.....      | 13,731              | 23.4               | 321,120              | 0.33              | 105,380              |

<sup>1</sup>For footnotes see end of table, p. 259.

### 3.—Acreages, Yields and Values of Principal Crops Grown in Canada, 1925-34<sup>1</sup>

—continued.

| Crop and Year.         | Area.              | Yield<br>per Acre. | Total<br>Yield.     | Average<br>Price. | Total<br>Value.      |
|------------------------|--------------------|--------------------|---------------------|-------------------|----------------------|
|                        | 000<br>acres.      | bush.              | 000<br>bush.        | \$<br>per bush.   | 000<br>\$            |
| <b>Barley—</b>         |                    |                    |                     |                   |                      |
| 1925.....              | 3,524              | 24.7               | 87,118              | 0.53              | 46,014               |
| 1926.....              | 3,647              | 27.4               | 99,987              | 0.52              | 52,059               |
| 1927.....              | 3,506              | 27.7               | 96,938              | 0.66              | 64,193               |
| 1928.....              | 4,881              | 27.9               | 136,391             | 0.56              | 76,112               |
| 1929.....              | 5,926              | 17.3               | 102,313             | 0.59              | 60,505               |
| 1930.....              | 5,559              | 24.3               | 135,160             | 0.20              | 27,254               |
| 1931.....              | 3,791 <sup>2</sup> | 17.8 <sup>3</sup>  | 67,383              | 0.26              | 17,465               |
| 1932.....              | 3,758              | 21.5               | 80,773              | 0.23 <sup>2</sup> | 18,855 <sup>2</sup>  |
| 1933.....              | 3,658              | 17.3               | 63,359              | 0.30              | 18,954               |
| 1934.....              | 3,613              | 17.6               | 63,742              | 0.46              | 29,107               |
| <b>Rye—</b>            |                    |                    |                     |                   |                      |
| 1925.....              | 643                | 14.2               | 9,159               | 0.77              | 7,048                |
| 1926.....              | 754                | 16.2               | 12,179              | 0.77              | 9,431                |
| 1927.....              | 745                | 20.9               | 15,571              | 0.82              | 12,746               |
| 1928.....              | 840                | 17.4               | 14,618              | 0.79              | 11,491               |
| 1929.....              | 992                | 13.3               | 13,161              | 0.84              | 11,095               |
| 1930.....              | 1,448              | 15.2               | 22,019              | 0.20              | 4,402                |
| 1931.....              | 799 <sup>2</sup>   | 6.7 <sup>2</sup>   | 5,322               | 0.28              | 1,476                |
| 1932.....              | 774                | 10.9 <sup>2</sup>  | 8,476 <sup>3</sup>  | 0.27 <sup>2</sup> | 2,284 <sup>2</sup>   |
| 1933.....              | 583                | 7.2                | 4,177               | 0.38              | 1,603                |
| 1934.....              | 735                | 7.4                | 5,423               | 0.48              | 2,581                |
| <b>Buckwheat—</b>      |                    |                    |                     |                   |                      |
| 1925.....              | 474                | 22.2               | 10,546              | 0.85              | 8,965                |
| 1926.....              | 457                | 21.6               | 9,882               | 0.87              | 8,598                |
| 1927.....              | 471                | 23.1               | 10,890              | 0.89              | 9,727                |
| 1928.....              | 503                | 21.7               | 10,899              | 0.93              | 10,128               |
| 1929.....              | 516                | 20.3               | 10,470              | 0.94              | 9,867                |
| 1930.....              | 490                | 22.2               | 10,903              | 0.65              | 7,124                |
| 1931.....              | 336 <sup>2</sup>   | 20.6 <sup>2</sup>  | 6,917               | 0.50              | 3,454                |
| 1932.....              | 368                | 22.9               | 8,424               | 0.43 <sup>2</sup> | 3,585 <sup>2</sup>   |
| 1933.....              | 398                | 21.3               | 8,483               | 0.50              | 4,233                |
| 1934.....              | 407                | 21.2               | 8,635               | 0.53              | 4,572                |
| <b>Flaxseed—</b>       |                    |                    |                     |                   |                      |
| 1925.....              | 843                | 7.4                | 6,237               | 1.85              | 11,542               |
| 1926.....              | 738                | 8.1                | 5,995               | 1.62              | 9,688                |
| 1927.....              | 476                | 10.3               | 4,885               | 1.55              | 7,562                |
| 1928.....              | 378                | 9.6                | 3,614               | 1.59              | 5,758                |
| 1929.....              | 382                | 5.4                | 2,060               | 2.38              | 4,898                |
| 1930.....              | 582                | 8.7                | 5,069               | 0.94              | 4,741                |
| 1931.....              | 648 <sup>2</sup>   | 3.8 <sup>2</sup>   | 2,465               | 0.79              | 1,944                |
| 1932.....              | 462 <sup>2</sup>   | 5.9 <sup>2</sup>   | 2,719 <sup>2</sup>  | 0.62 <sup>2</sup> | 1,682 <sup>2</sup>   |
| 1933.....              | 244                | 2.6                | 632                 | 1.20              | 756                  |
| 1934.....              | 227                | 4.0                | 910                 | 1.17              | 1,063                |
| <b>Potatoes—</b>       |                    | cwt.               | cwt.                | per cwt.          |                      |
| 1925.....              | 522                | 77.0               | 40,217              | 2.06              | 82,860               |
| 1926.....              | 523                | 89.7               | 46,937              | 1.47              | 69,204               |
| 1927.....              | 572                | 81.2               | 46,458              | 1.17              | 54,341               |
| 1928.....              | 599                | 83.8               | 50,195              | 0.81              | 40,874               |
| 1929.....              | 544                | 73.4               | 39,930              | 1.59              | 63,372               |
| 1930.....              | 571                | 84.4               | 48,241              | 0.83              | 39,858               |
| 1931.....              | 592 <sup>2</sup>   | 88.0 <sup>2</sup>  | 52,305              | 0.43              | 22,359               |
| 1932.....              | 522                | 76.0               | 39,416              | 0.63 <sup>2</sup> | 24,920 <sup>2</sup>  |
| 1933.....              | 528                | 81.0               | 42,745              | 0.77              | 33,092               |
| 1934.....              | 569                | 84.0               | 48,095              | 0.50              | 23,822               |
| <b>Hay and clover—</b> |                    | 000<br>tons.       | 000<br>tons.        | per ton.          |                      |
| 1925.....              | 9,563              | 1.56               | 14,962              | 10.35             | 154,886              |
| 1926.....              | 9,516              | 1.48               | 14,058              | 12.13             | 170,473              |
| 1927.....              | 10,227             | 1.70               | 17,370              | 10.41             | 180,835              |
| 1928.....              | 10,321             | 1.60               | 16,515              | 10.37             | 171,225              |
| 1929.....              | 10,560             | 1.50               | 15,833              | 11.65             | 184,528              |
| 1930.....              | 10,618             | 1.54               | 16,397              | 9.83              | 161,122              |
| 1931.....              | 9,114 <sup>2</sup> | 1.60 <sup>2</sup>  | 14,540 <sup>2</sup> | 7.57 <sup>2</sup> | 110,110 <sup>2</sup> |
| 1932.....              | 8,812              | 1.54               | 13,559              | 7.13 <sup>2</sup> | 96,654 <sup>2</sup>  |
| 1933.....              | 8,876              | 1.29               | 11,443              | 8.77              | 100,306              |
| 1934.....              | 8,881              | 1.26               | 11,174              | 11.75             | 131,295              |

<sup>1</sup>For footnotes see end of table, p. 259.

### 3.—Acreages, Yields and Values of Principal Crops Grown in Canada, 1925-34<sup>1</sup> —concluded.

| Crop and Year. | Area.            | Yield<br>per Acre. | Total<br>Yield. | Average<br>Price. | Total<br>Value.     |
|----------------|------------------|--------------------|-----------------|-------------------|---------------------|
|                | 000<br>acres.    | tons.              | 000<br>tons.    | \$<br>per ton.    | 000<br>\$           |
| Alfalfa—       |                  |                    |                 |                   |                     |
| 1925.....      | 637              | 2.48               | 1,582           | 12.72             | 20,120              |
| 1926.....      | 837              | 2.46               | 2,061           | 13.30             | 27,414              |
| 1927.....      | 910              | 2.37               | 2,157           | 12.03             | 25,946              |
| 1928.....      | 854              | 2.35               | 2,010           | 11.51             | 23,138              |
| 1929.....      | 799              | 2.30               | 1,835           | 12.63             | 23,183              |
| 1930.....      | 744              | 2.20               | 1,640           | 12.12             | 19,877              |
| 1931.....      | 568 <sup>2</sup> | 2.45 <sup>2</sup>  | 1,388           | 10.36             | 14,381              |
| 1932.....      | 666              | 2.65               | 1,764           | 8.58 <sup>2</sup> | 15,131 <sup>2</sup> |
| 1933.....      | 722              | 2.29               | 1,652           | 9.25              | 15,279              |
| 1934.....      | 679              | 1.96               | 1,328           | 12.67             | 16,822              |

<sup>1</sup>Comparative figures for the years 1908-24 are given in the Canada Year Book, 1929, pp. 230-232. The total value of wheat for 1912 should be \$139,090,000 instead of the \$19,090,000 shown on p. 230 of the 1929 Year Book, the error being due to the dropping out of a figure. <sup>2</sup>Revised since the publication of the 1933 Year Book.

**Total Acreages and Values, 1929-1934.**—Table 4 shows for Canada and the provinces, for the last six years, the total estimated areas and values of field crops, Table 5 the field crops of Canada compared as to quantity and value for 1933 and 1934, and Table 6 the areas, yields and values of the principal field crops in Canada, by provinces, for the years 1933 and 1934.

### 4.—Total Acreages and Values of Field Crops in Canada, by Provinces, 1929-34.<sup>1</sup>

| Province.             | 1929.              | 1930.              | 1931.                          | 1932.                          | 1933.              | 1934.              |
|-----------------------|--------------------|--------------------|--------------------------------|--------------------------------|--------------------|--------------------|
|                       | acres.             | acres.             | acres.                         | acres.                         | acres.             | acres.             |
| <b>Canada.....</b>    | <b>61,207,034</b>  | <b>62,214,670</b>  | <b>59,862,305<sup>2</sup></b>  | <b>59,643,200<sup>2</sup></b>  | <b>58,533,450</b>  | <b>56,040,420</b>  |
| P.E. Island.....      | 545,763            | 567,180            | 492,319 <sup>2</sup>           | 476,200                        | 476,850            | 473,000            |
| Nova Scotia.....      | 731,354            | 735,900            | 556,308 <sup>2</sup>           | 536,000                        | 542,100            | 554,800            |
| New Brunswick.....    | 908,659            | 911,490            | 943,923 <sup>2</sup>           | 907,500                        | 908,400            | 906,300            |
| Quebec.....           | 7,051,605          | 7,342,400          | 6,015,935 <sup>2</sup>         | 5,832,100                      | 5,784,700          | 5,950,300          |
| Ontario.....          | 10,020,294         | 10,009,200         | 9,241,103 <sup>2</sup>         | 9,224,300                      | 9,195,300          | 8,999,900          |
| Manitoba.....         | 6,687,163          | 6,794,700          | 5,774,816 <sup>2</sup>         | 5,866,800                      | 5,963,900          | 6,000,900          |
| Saskatchewan.....     | 22,420,232         | 22,868,300         | 21,973,754 <sup>2</sup>        | 22,333,900                     | 21,306,000         | 19,771,820         |
| Alberta.....          | 12,432,595         | 12,561,400         | 13,420,980 <sup>2</sup>        | 14,028,700 <sup>2</sup>        | 13,909,400         | 12,929,000         |
| British Columbia..... | 409,369            | 424,100            | 443,167 <sup>2</sup>           | 437,700                        | 446,800            | 454,400            |
|                       | \$                 | \$                 | \$                             | \$                             | \$                 | \$                 |
| <b>Canada.....</b>    | <b>948,981,400</b> | <b>662,040,900</b> | <b>435,966,400<sup>2</sup></b> | <b>452,526,900<sup>2</sup></b> | <b>453,598,000</b> | <b>544,974,600</b> |
| P.E. Island.....      | 16,940,400         | 10,973,000         | 6,828,700                      | 6,737,000 <sup>2</sup>         | 8,841,000          | 9,054,000          |
| Nova Scotia.....      | 20,945,000         | 16,646,500         | 10,087,000                     | 9,064,000 <sup>2</sup>         | 12,151,000         | 12,995,000         |
| New Brunswick.....    | 23,835,000         | 18,554,000         | 10,670,000                     | 12,629,000                     | 12,044,000         | 14,961,000         |
| Quebec.....           | 153,664,000        | 120,366,000        | 77,245,000 <sup>2</sup>        | 70,382,000                     | 67,512,000         | 98,309,000         |
| Ontario.....          | 241,778,000        | 179,919,000        | 124,541,000                    | 116,424,000 <sup>2</sup>       | 135,813,000        | 143,734,000        |
| Manitoba.....         | 78,919,000         | 52,975,000         | 24,847,000                     | 31,937,000 <sup>2</sup>        | 35,653,000         | 50,233,000         |
| Saskatchewan.....     | 235,248,000        | 135,695,000        | 70,347,100                     | 98,216,900 <sup>2</sup>        | 82,708,000         | 94,440,600         |
| Alberta.....          | 157,254,000        | 110,284,400        | 98,916,600                     | 95,913,000 <sup>2</sup>        | 86,499,000         | 108,499,000        |
| British Columbia..... | 20,398,000         | 16,628,000         | 12,484,000                     | 11,224,000 <sup>2</sup>        | 12,377,000         | 12,749,000         |

<sup>1</sup>For earlier figures see pp. xxvi-xxvii of the Statistical Summary at the beginning of this volume. <sup>2</sup>Revised since the publication of the 1933 Year Book.

## 5.—Field Crops of Canada, Compared as to Quantity and Value, 1933 and 1934.

("000" omitted.)

| Field Crop.                  | Actual Value,<br>1934. | Value at<br>Prices of<br>1933. | Actual Value,<br>1933. | Increase<br>(+)<br>or<br>Decrease<br>(-). | Due to<br>Higher (+)<br>or<br>Lower (-)<br>Prices. | Due to<br>Larger (+)<br>or<br>Smaller(-)<br>Quantities. |           |   |          |
|------------------------------|------------------------|--------------------------------|------------------------|-------------------------------------------|----------------------------------------------------|---------------------------------------------------------|-----------|---|----------|
|                              | \$                     | \$                             | \$                     | \$                                        | \$                                                 | \$                                                      |           |   |          |
| Wheat.....                   | 163,972                | 135,166                        | 136,958                | +                                         | 27,014                                             | +                                                       | 28,806    | - | 1,792    |
| Oats.....                    | 105,380                | 83,491                         | 79,818                 | +                                         | 25,562                                             | +                                                       | 21,889    | + | 3,673    |
| Barley.....                  | 29,107                 | 19,123                         | 18,954                 | +                                         | 10,153                                             | +                                                       | 9,984     | + | 169      |
| Rye.....                     | 2,581                  | 2,061                          | 1,603                  | +                                         | 978                                                | +                                                       | 520       | + | 458      |
| Peas.....                    | 1,661                  | 1,588                          | 1,371                  | +                                         | 290                                                | +                                                       | 73        | + | 217      |
| Beans.....                   | 1,079                  | 805                            | 878                    | +                                         | 201                                                | +                                                       | 274       | + | 73       |
| Buckwheat.....               | 4,572                  | 4,318                          | 4,233                  | +                                         | 339                                                | +                                                       | 254       | + | 85       |
| Mixed grains.....            | 15,634                 | 15,170                         | 13,336                 | +                                         | 2,298                                              | +                                                       | 464       | + | 1,834    |
| Flaxseed.....                | 1,063                  | 1,092                          | 756                    | +                                         | 307                                                | -                                                       | 29        | + | 336      |
| Corn for husking.....        | 4,419                  | 4,011                          | 2,982                  | +                                         | 1,437                                              | +                                                       | 408       | + | 1,029    |
| Potatoes.....                | 23,822                 | 37,033                         | 33,092                 | -                                         | 9,270                                              | -                                                       | 13,211    | + | 3,941    |
| Turnips, etc.....            | 12,685                 | 13,783                         | 11,626                 | +                                         | 1,059                                              | -                                                       | 1,098     | + | 2,157    |
| Hay and clover.....          | 131,295                | 97,996                         | 100,306                | +                                         | 30,989                                             | +                                                       | 33,299    | - | 2,310    |
| Grain hay.....               | 12,828                 | 11,857                         | 19,407                 | -                                         | 6,579                                              | +                                                       | 971       | - | 7,550    |
| Alfalfa.....                 | 16,822                 | 12,285                         | 15,279                 | +                                         | 1,543                                              | +                                                       | 4,537     | - | 2,994    |
| Fodder corn.....             | 15,729                 | 12,513                         | 10,239                 | +                                         | 5,490                                              | +                                                       | 3,216     | + | 2,274    |
| Sugar beets.....             | 2,326                  | 2,493                          | 2,760                  | -                                         | 434                                                | -                                                       | 167       | - | 267      |
| Totals.....                  | 544,975                | 454,785                        | 453,598                | +                                         | 91,377                                             | +                                                       | 90,190    | + | 1,187    |
| Total Increases, 1933-34.... | -                      | -                              | -                      | +                                         | 20.2 p.c.                                          | +                                                       | 19.9 p.c. | + | 0.3 p.c. |

## 6.—Acreages, Yields and Values of Principal Field Crops of Canada, Itemized by Provinces, 1933 and 1934.

| Field Crop.       | Year. | Area.      | Yield per Acre. | Total Yield. | Average Price. | Total Value. |
|-------------------|-------|------------|-----------------|--------------|----------------|--------------|
|                   |       | acres.     | bush.           | bush.        | \$ per bush.   | \$           |
| <b>Canada—</b>    |       |            |                 |              |                |              |
| Fall wheat.....   | 1933  | 559,000    | 25.1            | 14,031,000   | 0.72           | 10,102,000   |
|                   | 1934  | 425,600    | 15.8            | 6,724,000    | 0.88           | 5,917,000    |
| Spring wheat..... | 1933  | 25,432,100 | 10.5            | 267,861,000  | 0.47           | 126,856,000  |
|                   | 1934  | 23,559,400 | 11.4            | 269,125,000  | 0.59           | 158,055,000  |
| All wheat.....    | 1933  | 25,991,100 | 10.8            | 281,892,000  | 0.49           | 136,958,000  |
|                   | 1934  | 23,985,000 | 11.5            | 275,849,000  | 0.59           | 163,972,000  |
| Oats.....         | 1933  | 13,528,900 | 22.7            | 307,478,000  | 0.26           | 79,818,000   |
|                   | 1934  | 13,730,800 | 23.4            | 321,120,000  | 0.33           | 105,380,000  |
| Barley.....       | 1933  | 3,658,000  | 17.3            | 63,359,000   | 0.30           | 18,954,000   |
|                   | 1934  | 3,612,500  | 17.6            | 63,742,000   | 0.46           | 29,107,000   |
| Fall rye.....     | 1933  | 434,900    | 7.7             | 3,332,000    | 0.39           | 1,289,000    |
|                   | 1934  | 587,100    | 7.3             | 4,305,000    | 0.48           | 2,066,000    |
| Spring rye.....   | 1933  | 148,200    | 5.7             | 845,000      | 0.37           | 314,000      |
|                   | 1934  | 147,800    | 7.6             | 1,118,000    | 0.46           | 515,000      |
| All rye.....      | 1933  | 583,100    | 7.2             | 4,177,000    | 0.38           | 1,603,000    |
|                   | 1934  | 734,900    | 7.4             | 5,423,000    | 0.48           | 2,581,000    |
| Peas.....         | 1933  | 84,600     | 16.3            | 1,376,800    | 1.00           | 1,371,000    |
|                   | 1934  | 94,960     | 16.7            | 1,588,000    | 1.05           | 1,660,400    |
| Beans.....        | 1933  | 59,100     | 15.1            | 890,700      | 0.99           | 878,000      |
|                   | 1934  | 56,760     | 14.3            | 813,600      | 1.33           | 1,079,200    |
| Buckwheat.....    | 1933  | 398,300    | 21.3            | 8,483,000    | 0.50           | 4,233,000    |
|                   | 1934  | 407,200    | 21.2            | 8,635,000    | 0.53           | 4,572,000    |
| Mixed grains..... | 1933  | 1,167,300  | 28.3            | 33,009,000   | 0.40           | 13,336,000   |
|                   | 1934  | 1,159,200  | 22.7            | 27,926,000   | 0.41           | 15,634,000   |



6.—Acreages, Yields and Values of Principal Field Crops of Canada, Itemized by Provinces, 1933 and 1934—continued.

| Field Crop.                  | Year. | Area.     | Yield per Acre. | Total Yield.     | Average Price. | Total Value. |
|------------------------------|-------|-----------|-----------------|------------------|----------------|--------------|
| <b>Canada—concluded.</b>     |       | acres.    | bush.           | bush.            | per bush.      | \$           |
| Flaxseed.....                | 1933  | 243,600   | 2.6             | 632,000          | 1.20           | 756,000      |
|                              | 1934  | 226,900   | 4.0             | 910,400          | 1.17           | 1,063,000    |
| Corn for husking.....        | 1933  | 136,600   | 37.0            | 5,054,000        | 0.59           | 2,982,000    |
|                              | 1934  | 161,100   | 42.2            | 6,798,000        | 0.65           | 4,419,000    |
| Potatoes.....                | 1933  | 527,700   | cwt. 81.0       | cwt. 42,745,000  | per cwt. 0.77  | 33,092,000   |
|                              | 1934  | 569,200   | 84.0            | 48,095,000       | 0.50           | 23,822,000   |
| Turnips, etc.....            | 1933  | 183,900   | 188.0           | 34,618,000       | 0.34           | 11,626,000   |
|                              | 1934  | 187,400   | 216.0           | 40,538,000       | 0.31           | 12,685,000   |
| Hay and clover.....          | 1933  | 8,875,900 | tons. 1.29      | tons. 11,443,000 | per ton. 8.77  | 100,306,000  |
|                              | 1934  | 8,881,400 | 1.26            | 11,174,000       | 11.75          | 131,295,000  |
| Alfalfa.....                 | 1933  | 721,600   | 2.29            | 1,652,300        | 9.25           | 15,279,000   |
|                              | 1934  | 678,900   | 1.96            | 1,328,100        | 12.67          | 16,822,000   |
| Fodder corn.....             | 1933  | 378,750   | 8.25            | 3,122,800        | 3.28           | 10,239,000   |
|                              | 1934  | 497,100   | 7.67            | 3,815,000        | 4.12           | 15,729,000   |
| Grain hay.....               | 1933  | 1,949,000 | 1.51            | 2,948,000        | 6.58           | 19,407,000   |
|                              | 1934  | 1,005,000 | 1.79            | 1,802,000        | 7.12           | 12,828,000   |
| Sugar beets.....             | 1933  | 46,000    | 9.93            | 457,000          | 6.04           | 2,760,000    |
|                              | 1934  | 52,100    | 7.92            | 412,700          | 5.84           | 2,326,000    |
| <b>Prince Edward Island—</b> |       |           | bush.           | bush.            | per bush.      |              |
| Spring wheat.....            | 1933  | 23,400    | 24.0            | 562,000          | 0.83           | 466,000      |
|                              | 1934  | 25,200    | 20.0            | 504,000          | 0.93           | 469,000      |
| Oats.....                    | 1933  | 154,000   | 38.0            | 5,852,000        | 0.30           | 1,756,000    |
|                              | 1934  | 148,100   | 36.0            | 5,332,000        | 0.38           | 2,026,000    |
| Barley.....                  | 1933  | 3,900     | 32.0            | 125,000          | 0.50           | 63,000       |
|                              | 1934  | 3,000     | 30.0            | 90,000           | 0.54           | 49,000       |
| Buckwheat.....               | 1933  | 2,000     | 24.3            | 49,000           | 0.56           | 27,000       |
|                              | 1934  | 2,000     | 27.0            | 54,000           | 0.60           | 32,000       |
| Mixed grains.....            | 1933  | 22,000    | 40.0            | 880,000          | 0.40           | 352,000      |
|                              | 1934  | 22,100    | 39.0            | 862,000          | 0.48           | 414,000      |
| Potatoes.....                | 1933  | 37,600    | cwt. 100.0      | cwt. 3,760,000   | per cwt. 0.65  | 2,444,000    |
|                              | 1934  | 40,200    | 120.0           | 4,824,000        | 0.26           | 1,254,000    |
| Turnips, etc.....            | 1933  | 9,700     | 375.0           | 3,638,000        | 0.40           | 1,455,000    |
|                              | 1934  | 10,700    | 300.0           | 3,210,000        | 0.24           | 770,000      |
| Hay and clover.....          | 1933  | 224,000   | tons. 1.27      | tons. 284,000    | per ton. 8.00  | 2,272,000    |
|                              | 1934  | 221,400   | 1.07            | 237,000          | 17.00          | 4,029,000    |
| Fodder corn.....             | 1933  | 250       | 7.33            | 1,800            | 3.50           | 6,000        |
|                              | 1934  | 300       | 8.80            | 2,600            | 4.25           | 11,000       |
| <b>Nova Scotia—</b>          |       |           | bush.           | bush.            | per bush.      |              |
| Spring wheat.....            | 1933  | 3,400     | 17.5            | 60,000           | 0.99           | 59,000       |
|                              | 1934  | 3,700     | 15.4            | 57,000           | 1.09           | 62,000       |
| Oats.....                    | 1933  | 89,500    | 34.7            | 3,102,000        | 0.50           | 1,551,000    |
|                              | 1934  | 89,400    | 32.1            | 2,873,000        | 0.55           | 1,580,000    |
| Barley.....                  | 1933  | 7,900     | 27.2            | 215,000          | 0.70           | 151,000      |
|                              | 1934  | 7,900     | 25.1            | 198,000          | 0.77           | 152,000      |
| Buckwheat.....               | 1933  | 4,400     | 20.3            | 89,000           | 0.73           | 65,000       |
|                              | 1934  | 4,200     | 20.2            | 85,000           | 0.82           | 70,000       |
| Mixed grains.....            | 1933  | 5,000     | 30.0            | 150,000          | 0.64           | 96,000       |
|                              | 1934  | 4,900     | 34.1            | 167,000          | 0.65           | 109,000      |

**6.—Acreages, Yields and Values of Principal Field Crops of Canada, Itemized by Provinces, 1933 and 1934—continued.**

| Field Crop.                   | Year. | Area.     | Yield per Acre. | Total Yield.      | Average Price.    | Total Value. |
|-------------------------------|-------|-----------|-----------------|-------------------|-------------------|--------------|
|                               |       | acres.    | cwt.            | cwt.              | per cwt.          | \$           |
| <b>Nova Scotia—concluded.</b> |       |           |                 |                   |                   |              |
| Potatoes.....                 | 1933  | 20,500    | 91.0            | 1,866,000         | 0.95              | 1,773,000    |
|                               | 1934  | 21,900    | 112.0           | 2,453,000         | 0.50              | 1,227,000    |
| Turnips, etc.....             | 1933  | 10,700    | 277.0           | 2,964,000         | 0.50              | 1,482,000    |
|                               | 1934  | 11,200    | 254.0           | 2,845,000         | 0.40              | 1,138,000    |
| Hay and clover.....           | 1933  | 400,200   | tons.<br>1.74   | tons.<br>696,000  | per ton.<br>10.00 | 6,960,000    |
|                               | 1934  | 411,000   | 1.16            | 477,000           | 18.10             | 8,634,000    |
| Fodder corn.....              | 1933  | 500       | 8.00            | 4,000             | 3.50              | 14,000       |
|                               | 1934  | 600       | 9.00            | 5,400             | 4.25              | 23,000       |
| <b>New Brunswick—</b>         |       |           |                 |                   |                   |              |
| Spring wheat.....             | 1933  | 13,500    | bush.<br>20.1   | bush.<br>271,000  | per bush.<br>0.95 | 257,000      |
|                               | 1934  | 15,600    | 20.4            | 319,000           | 1.00              | 319,000      |
| Oats.....                     | 1933  | 210,500   | 29.3            | 6,172,000         | 0.40              | 2,469,000    |
|                               | 1934  | 209,100   | 30.6            | 6,403,000         | 0.43              | 2,753,000    |
| Barley.....                   | 1933  | 12,300    | 26.0            | 320,000           | 0.61              | 195,000      |
|                               | 1934  | 11,300    | 27.2            | 307,000           | 0.60              | 184,000      |
| Beans.....                    | 1933  | 1,100     | 19.4            | 21,300            | 1.38              | 29,000       |
|                               | 1934  | 900       | 17.1            | 15,000            | 1.50              | 23,000       |
| Buckwheat.....                | 1933  | 41,700    | 18.5            | 772,000           | 0.50              | 386,000      |
|                               | 1934  | 33,000    | 21.1            | 695,000           | 0.50              | 348,000      |
| Mixed grains.....             | 1933  | 5,000     | 27.6            | 138,000           | 0.46              | 63,000       |
|                               | 1934  | 2,900     | 30.3            | 88,000            | 0.46              | 40,000       |
| Potatoes.....                 | 1933  | 46,800    | cwt.<br>115.0   | cwt.<br>5,394,000 | per cwt.<br>0.50  | 2,697,000    |
|                               | 1934  | 54,200    | 128.0           | 6,938,000         | 0.33              | 2,290,000    |
| Turnips, etc.....             | 1933  | 11,100    | 227.0           | 2,520,000         | 0.25              | 630,000      |
|                               | 1934  | 11,600    | 225.0           | 2,610,000         | 0.28              | 731,000      |
| Hay and clover.....           | 1933  | 565,800   | tons.<br>1.09   | tons.<br>617,000  | per ton.<br>8.60  | 5,306,000    |
|                               | 1934  | 567,200   | 1.07            | 607,000           | 13.60             | 8,255,000    |
| Fodder corn.....              | 1933  | 500       | 6.80            | 3,400             | 3.50              | 12,000       |
|                               | 1934  | 500       | 8.78            | 4,000             | 4.50              | 18,000       |
| <b>Quebec—</b>                |       |           |                 |                   |                   |              |
| Spring wheat.....             | 1933  | 58,200    | bush.<br>16.8   | bush.<br>979,000  | per bush.<br>0.78 | 762,000      |
|                               | 1934  | 63,800    | 19.5            | 1,245,000         | 0.98              | 1,214,000    |
| Oats.....                     | 1933  | 1,718,000 | 26.1            | 44,880,000        | 0.36              | 16,379,000   |
|                               | 1934  | 1,679,800 | 28.7            | 48,262,000        | 0.43              | 20,757,000   |
| Barley.....                   | 1933  | 130,800   | 23.8            | 3,117,000         | 0.52              | 1,625,000    |
|                               | 1934  | 132,600   | 25.0            | 3,310,000         | 0.61              | 2,023,000    |
| Spring rye.....               | 1933  | 5,100     | 16.1            | 82,000            | 0.72              | 59,000       |
|                               | 1934  | 5,500     | 16.5            | 91,000            | 0.68              | 62,000       |
| Peas.....                     | 1933  | 18,900    | 16.3            | 308,000           | 1.53              | 471,000      |
|                               | 1934  | 19,100    | 16.6            | 317,000           | 1.65              | 524,000      |
| Beans.....                    | 1933  | 3,900     | 14.9            | 59,000            | 1.59              | 93,000       |
|                               | 1934  | 4,400     | 15.6            | 68,600            | 1.75              | 120,000      |
| Buckwheat.....                | 1933  | 135,400   | 23.0            | 3,121,000         | 0.56              | 1,743,000    |
|                               | 1934  | 146,200   | 22.8            | 3,337,000         | 0.60              | 2,011,000    |
| Mixed grains.....             | 1933  | 109,200   | 26.0            | 2,838,000         | 0.51              | 1,443,000    |
|                               | 1934  | 118,600   | 28.9            | 3,432,000         | 0.52              | 1,790,000    |
| Flaxseed.....                 | 1933  | 1,800     | 8.4             | 15,000            | 1.60              | 24,000       |
|                               | 1934  | 2,300     | 9.3             | 21,400            | 1.59              | 34,000       |

6.—Acreages, Yields and Values of Principal Field Crops of Canada, Itemized by Provinces, 1933 and 1934—continued.

| Field Crop.              | Year. | Area.     | Yield per Acre. | Total Yield. | Average Price. | Total Value. |
|--------------------------|-------|-----------|-----------------|--------------|----------------|--------------|
| <b>Quebec—concluded.</b> |       | acres.    | cwt.            | cwt.         | \$ per cwt.    | \$           |
| Potatoes.....            | 1933  | 133,100   | 101.0           | 13,444,000   | 0.71           | 9,551,000    |
|                          | 1934  | 143,400   | 99.3            | 14,244,000   | 0.48           | 6,798,000    |
| Turnips, etc.....        | 1933  | 36,400    | 216.0           | 7,847,000    | 0.39           | 3,073,000    |
|                          | 1934  | 38,800    | 263.0           | 10,204,000   | 0.34           | 3,471,000    |
| Hay and clover.....      | 1933  | 3,384,000 | 0.97            | 3,279,000    | 9.38           | 30,760,000   |
|                          | 1934  | 3,535,800 | 1.37            | 4,848,000    | 11.84          | 57,433,000   |
| Alfalfa.....             | 1933  | 5,700     | 2.68            | 15,300       | 11.21          | 172,000      |
|                          | 1934  | 7,600     | 2.38            | 18,000       | 13.11          | 236,000      |
| Fodder corn.....         | 1933  | 44,200    | 10.62           | 470,000      | 2.89           | 1,357,000    |
|                          | 1934  | 52,400    | 8.91            | 467,000      | 3.93           | 1,836,000    |
| <b>Ontario—</b>          |       |           | bush.           | bush.        | per bush.      |              |
| Fall wheat.....          | 1933  | 559,000   | 25.1            | 14,031,000   | 0.72           | 10,102,000   |
|                          | 1934  | 425,600   | 15.8            | 6,724,000    | 0.88           | 5,917,000    |
| Spring wheat.....        | 1933  | 97,000    | 17.2            | 1,668,000    | 0.73           | 1,218,000    |
|                          | 1934  | 96,400    | 18.7            | 1,803,000    | 0.85           | 1,533,000    |
| All wheat.....           | 1933  | 656,000   | 23.9            | 15,699,000   | 0.72           | 11,320,000   |
|                          | 1934  | 522,000   | 16.3            | 8,527,000    | 0.87           | 7,450,000    |
| Oats.....                | 1933  | 2,316,000 | 28.3            | 65,543,000   | 0.34           | 22,285,000   |
|                          | 1934  | 2,390,800 | 34.1            | 81,526,000   | 0.35           | 28,534,000   |
| Barley.....              | 1933  | 461,000   | 26.1            | 12,032,000   | 0.43           | 5,174,000    |
|                          | 1934  | 484,900   | 30.4            | 14,741,000   | 0.50           | 7,371,000    |
| Fall rye.....            | 1933  | 54,000    | 16.9            | 913,000      | 0.53           | 484,000      |
|                          | 1934  | 55,900    | 15.5            | 866,000      | 0.55           | 476,000      |
| Peas.....                | 1933  | 58,700    | 16.0            | 939,000      | 0.80           | 751,000      |
|                          | 1934  | 68,800    | 16.8            | 1,156,000    | 0.85           | 983,000      |
| Beans.....               | 1933  | 52,300    | 14.9            | 779,000      | 0.92           | 717,000      |
|                          | 1934  | 49,400    | 14.0            | 692,000      | 1.27           | 879,000      |
| Buckwheat.....           | 1933  | 207,000   | 21.0            | 4,347,000    | 0.45           | 1,956,000    |
|                          | 1934  | 213,900   | 20.5            | 4,385,000    | 0.47           | 2,061,000    |
| Mixed grains.....        | 1933  | 947,000   | 29.1            | 27,558,000   | 0.40           | 11,023,000   |
|                          | 1934  | 941,400   | 34.2            | 32,196,000   | 0.40           | 12,878,000   |
| Flaxseed.....            | 1933  | 5,500     | 9.0             | 50,000       | 1.20           | 60,000       |
|                          | 1934  | 5,700     | 10.0            | 57,000       | 1.33           | 76,000       |
| Corn for husking.....    | 1933  | 136,600   | 37.0            | 5,054,000    | 0.59           | 2,982,000    |
|                          | 1934  | 161,100   | 42.2            | 6,798,000    | 0.65           | 4,419,000    |
| Potatoes.....            | 1933  | 157,500   | cwt.            | cwt.         | per cwt.       |              |
|                          | 1934  | 164,300   | 64.0            | 10,112,000   | 1.00           | 10,112,000   |
| Turnips, etc.....        | 1933  | 100,300   | 156.0           | 15,647,000   | 0.24           | 3,755,000    |
|                          | 1934  | 100,200   | 197.0           | 19,739,000   | 0.28           | 5,527,000    |
| Hay and clover.....      | 1933  | 3,165,000 | tons.           | tons.        | per ton.       |              |
|                          | 1934  | 2,970,400 | 1.54            | 4,874,000    | 8.95           | 43,622,000   |
|                          |       |           | 1.13            | 3,352,000    | 12.11          | 40,601,000   |
| Alfalfa.....             | 1933  | 560,500   | 2.32            | 1,300,000    | 8.96           | 11,648,000   |
|                          | 1934  | 510,300   | 1.83            | 934,000      | 13.45          | 12,562,000   |
| Fodder corn.....         | 1933  | 286,000   | 8.53            | 2,440,000    | 3.25           | 7,930,000    |
|                          | 1934  | 323,200   | 9.25            | 2,990,000    | 4.00           | 11,960,000   |
| Sugar beets.....         | 1933  | 31,900    | 10.00           | 319,000      | 6.25           | 1,994,000    |
|                          | 1934  | 37,600    | 6.80            | 255,700      | 5.70           | 1,450,000    |

**6.—Acreages, Yields and Values of Principal Field Crops of Canada, Itemized by Provinces, 1933 and 1934—continued.**

| Field Crop.         | Year. | Area.      | Yield<br>per Acre. | Total<br>Yield. | Average<br>Price. | Total<br>Value. |
|---------------------|-------|------------|--------------------|-----------------|-------------------|-----------------|
|                     |       | acres.     | bush.              | bush.           | per bush.         | \$              |
| <b>Manitoba—</b>    |       |            |                    |                 |                   |                 |
| Spring wheat.....   | 1933  | 2,536,000  | 12.9               | 32,666,000      | 0.52              | 16,986,000      |
|                     | 1934  | 2,533,000  | 14.6               | 37,100,000      | 0.65              | 24,115,000      |
| Oats.....           | 1933  | 1,504,000  | 19.6               | 29,500,000      | 0.21              | 6,195,000       |
|                     | 1934  | 1,458,000  | 18.3               | 26,752,000      | 0.32              | 8,561,000       |
| Barley.....         | 1933  | 1,173,000  | 14.4               | 16,900,000      | 0.27              | 4,563,000       |
|                     | 1934  | 1,125,000  | 15.4               | 17,298,000      | 0.46              | 7,957,000       |
| Fall rye.....       | 1933  | 36,700     | 12.5               | 458,000         | 0.33              | 151,000         |
|                     | 1934  | 76,800     | 13.1               | 1,006,000       | 0.50              | 503,000         |
| Spring rye.....     | 1933  | 9,000      | 13.0               | 117,000         | 0.30              | 35,000          |
|                     | 1934  | 10,600     | 12.1               | 128,000         | 0.50              | 64,000          |
| All rye.....        | 1933  | 45,700     | 12.6               | 575,000         | 0.32              | 186,000         |
|                     | 1934  | 87,400     | 13.0               | 1,134,000       | 0.50              | 567,000         |
| Peas.....           | 1933  | 2,500      | 8.8                | 22,000          | 1.00              | 22,000          |
|                     | 1934  | 2,000      | 11.0               | 22,000          | 1.40              | 31,000          |
| Buckwheat.....      | 1933  | 7,800      | 13.5               | 105,000         | 0.53              | 56,000          |
|                     | 1934  | 7,900      | 10.0               | 79,000          | 0.63              | 50,000          |
| Mixed grains.....   | 1933  | 31,900     | 17.0               | 542,000         | 0.25              | 136,000         |
|                     | 1934  | 23,800     | 16.5               | 393,000         | 0.35              | 138,000         |
| Flaxseed.....       | 1933  | 20,200     | 5.4                | 110,000         | 1.17              | 129,000         |
|                     | 1934  | 25,600     | 7.0                | 180,000         | 1.17              | 211,000         |
| Potatoes.....       | 1933  | 36,400     | cwt.               | cwt.            | per cwt.          |                 |
|                     | 1934  | 41,700     | 63.0               | 2,300,000       | 0.63              | 1,449,000       |
| Turnips, etc.....   | 1933  | 6,100      | 101.0              | 616,000         | 0.55              | 339,000         |
|                     | 1934  | 5,800      | 98.0               | 569,000         | 0.47              | 267,000         |
| Hay and clover..... | 1933  | 543,800    | tons.              | tons.           | per ton.          |                 |
|                     | 1934  | 585,200    | 1.56               | 847,000         | 5.60              | 4,743,000       |
| Alfalfa.....        | 1933  | 26,300     | 1.38               | 810,000         | 6.54              | 5,297,000       |
|                     | 1934  | 29,100     | 1.60               | 42,000          | 8.25              | 347,000         |
| Fodder corn.....    | 1933  | 29,100     | 1.62               | 47,100          | 8.57              | 404,000         |
|                     | 1934  | 30,200     | 3.90               | 118,000         | 4.25              | 502,000         |
| Saskatchewan—       | 1933  | 76,400     | 2.96               | 226,000         | 5.38              | 1,216,000       |
|                     | 1934  |            |                    |                 |                   |                 |
| Spring wheat.....   | 1933  | 14,743,000 | bush.              | bush.           | per bush.         |                 |
|                     | 1934  | 13,262,000 | 8.7                | 128,004,000     | 0.47              | 60,162,000      |
| Oats.....           | 1933  | 4,571,000  | 8.6                | 114,200,000     | 0.59              | 67,378,000      |
|                     | 1934  | 4,625,000  | 16.5               | 75,422,000      | 0.19              | 14,330,000      |
| Barley.....         | 1933  | 4,625,000  | 13.9               | 64,288,000      | 0.28              | 18,001,000      |
|                     | 1934  | 1,228,000  | 14.3               | 17,560,000      | 0.24              | 4,214,000       |
| Fall rye.....       | 1933  | 1,088,000  | 11.4               | 12,403,000      | 0.44              | 5,457,000       |
|                     | 1934  | 232,200    | 5.8                | 1,347,000       | 0.34              | 458,000         |
| Spring rye.....     | 1933  | 278,000    | 2.9                | 806,000         | 0.46              | 371,000         |
|                     | 1934  | 72,800     | 5.9                | 430,000         | 0.31              | 133,000         |
| All rye.....        | 1933  | 68,500     | 7.5                | 514,000         | 0.41              | 211,000         |
|                     | 1934  | 305,000    | 5.8                | 1,777,000       | 0.33              | 591,000         |
| Peas.....           | 1933  | 346,500    | 3.8                | 1,320,000       | 0.44              | 582,000         |
|                     | 1934  | 500        | 8.0                | 4,000           | 0.90              | 4,000           |
| Beans.....          | 1933  | 660        | 6.0                | 4,000           | 1.10              | 4,400           |
|                     | 1934  | 200        | 6.8                | 1,400           | 1.20              | 2,000           |
|                     | 1934  | 260        | 4.0                | 1,000           | 1.20              | 1,200           |



6.—Acreages, Yields and Values of Principal Field Crops of Canada, Itemized by Provinces, 1933 and 1934—continued.

| Field Crop.                    | Year. | Area.     | Yield<br>per Acre. | Total<br>Yield. | Average<br>Price. | Total<br>Value. |
|--------------------------------|-------|-----------|--------------------|-----------------|-------------------|-----------------|
| <b>Saskatchewan—concluded.</b> |       | acres.    | bush.              | bush.           | per bush.         | \$              |
| Mixed grains.....              | 1933  | 23,000    | 13.5               | 311,000         | 0.22              | 68,000          |
|                                | 1934  | 20,800    | 9.1                | 189,000         | 0.30              | 57,000          |
| Flaxseed.....                  | 1933  | 205,000   | 2.0                | 410,000         | 1.19              | 488,000         |
|                                | 1934  | 174,700   | 3.1                | 542,000         | 1.14              | 618,000         |
| Potatoes.....                  | 1933  | 45,700    | cwt. 50.0          | cwt. 2,285,000  | per cwt. 0.70     | 1,600,000       |
|                                | 1934  | 51,300    | 27.9               | 1,431,000       | 0.75              | 1,073,000       |
| Turnips, etc.....              | 1933  | 2,800     | 55.0               | 154,000         | 0.59              | 91,000          |
|                                | 1934  | 2,300     | 31.7               | 73,000          | 0.80              | 58,000          |
| Hay and clover.....            | 1933  | 162,700   | tons. 1.27         | tons. 207,000   | per ton. 4.50     | 932,000         |
|                                | 1934  | 158,300   | 1.08               | 171,000         | 5.67              | 970,000         |
| Alfalfa.....                   | 1933  | 11,900    | 1.71               | 20,000          | 7.18              | 144,000         |
|                                | 1934  | 11,600    | 1.12               | 13,000          | 7.70              | 100,000         |
| Fodder corn.....               | 1933  | 7,200     | 2.44               | 17,600          | 4.67              | 82,000          |
|                                | 1934  | 30,400    | 0.71               | 22,000          | 6.41              | 141,000         |
| <b>Alberta—</b>                |       |           | bush.              | bush.           | per bush.         |                 |
| Spring wheat.....              | 1933  | 7,898,000 | 13.0               | 102,334,000     | 0.45              | 46,050,000      |
|                                | 1934  | 7,501,000 | 15.0               | 112,500,000     | 0.55              | 61,875,000      |
| Oats.....                      | 1933  | 2,870,000 | 25.3               | 72,500,000      | 0.18              | 13,050,000      |
|                                | 1934  | 3,032,000 | 26.7               | 81,000,000      | 0.26              | 21,060,000      |
| Barley.....                    | 1933  | 631,000   | 20.3               | 12,783,000      | 0.22              | 2,812,000       |
|                                | 1934  | 749,000   | 20.1               | 15,041,000      | 0.38              | 5,716,000       |
| Fall rye.....                  | 1933  | 112,000   | 5.5                | 614,000         | 0.32              | 196,000         |
|                                | 1934  | 176,400   | 9.2                | 1,627,000       | 0.44              | 716,000         |
| Spring rye.....                | 1933  | 57,000    | 2.4                | 138,000         | 0.29              | 40,000          |
|                                | 1934  | 58,700    | 5.1                | 300,000         | 0.41              | 123,000         |
| All rye.....                   | 1933  | 169,000   | 4.4                | 752,000         | 0.31              | 236,000         |
|                                | 1934  | 235,100   | 8.2                | 1,927,000       | 0.44              | 839,000         |
| Peas.....                      | 1933  | 600       | 13.0               | 7,800           | 1.00              | 8,000           |
|                                | 1934  | 800       | 14.0               | 11,000          | 1.20              | 13,000          |
| Beans.....                     | 1933  | 800       | 12.6               | 10,000          | 1.30              | 13,000          |
|                                | 1934  | 900       | 12.5               | 11,000          | 1.50              | 17,000          |
| Mixed grains.....              | 1933  | 20,800    | 22.3               | 464,000         | 0.21              | 97,000          |
|                                | 1934  | 21,000    | 22.0               | 462,000         | 0.30              | 139,000         |
| Flaxseed.....                  | 1933  | 10,700    | 4.0                | 43,000          | 1.18              | 51,000          |
|                                | 1934  | 18,100    | 5.8                | 105,000         | 1.12              | 118,000         |
| Potatoes.....                  | 1933  | 32,000    | cwt. 58.0          | cwt. 1,856,000  | per cwt. 0.75     | 1,392,000       |
|                                | 1934  | 32,800    | 56.0               | 1,837,000       | 0.73              | 1,341,000       |
| Turnips, etc.....              | 1933  | 1,900     | 81.0               | 154,000         | 0.65              | 100,000         |
|                                | 1934  | 1,700     | 92.0               | 156,000         | 0.64              | 100,000         |
| Hay and clover.....            | 1933  | 282,400   | tons. 1.28         | tons. 361,000   | per ton. 6.00     | 2,166,000       |
|                                | 1934  | 282,000   | 1.32               | 372,000         | 7.06              | 2,626,000       |
| Alfalfa.....                   | 1933  | 73,100    | 1.94               | 142,000         | 8.25              | 1,172,000       |
|                                | 1934  | 74,600    | 2.31               | 172,000         | 10.00             | 1,720,000       |
| Fodder corn.....               | 1933  | 5,000     | 2.52               | 13,000          | 4.70              | 61,000          |
|                                | 1934  | 8,000     | 4.00               | 32,000          | 6.06              | 194,000         |

### 6.—Acreages, Yields and Values of Principal Field Crops of Canada, Itemized by Provinces, 1933 and 1934—concluded.

| Field Crop.               | Year. | Area.     | Yield per Acre. | Total Yield.    | Average Price. | Total Value. |
|---------------------------|-------|-----------|-----------------|-----------------|----------------|--------------|
|                           |       | acres.    | tons.           | tons.           | \$ per ton.    | \$           |
| <b>Alberta—concluded.</b> |       |           |                 |                 |                |              |
| Grain hay.....            | 1933  | 1,900,000 | 1.50            | 2,850,000       | 6.50           | 18,525,000   |
|                           | 1934  | 957,500   | 1.77            | 1,695,000       | 7.00           | 11,865,000   |
| Sugar beets.....          | 1933  | 14,100    | 9.79            | 138,000         | 5.55           | 766,000      |
|                           | 1934  | 14,500    | 10.80           | 157,000         | 5.58           | 876,000      |
| <b>British Columbia—</b>  |       |           |                 |                 |                |              |
| Spring wheat.....         | 1933  | 59,600    | bush. 22.1      | bush. 1,317,000 | per bush. 0.68 | 896,000      |
|                           | 1934  | 58,700    | 23.8            | 1,397,000       | 0.78           | 1,090,000    |
| Oats.....                 | 1933  | 95,900    | 47.0            | 4,507,000       | 0.40           | 1,803,000    |
|                           | 1934  | 98,600    | 47.5            | 4,684,000       | 0.45           | 2,108,000    |
| Barley.....               | 1933  | 10,100    | 30.4            | 307,000         | 0.51           | 157,000      |
|                           | 1934  | 10,800    | 32.8            | 354,000         | 0.56           | 198,000      |
| Spring rye.....           | 1933  | 4,300     | 18.1            | 78,000          | 0.60           | 47,000       |
|                           | 1934  | 4,500     | 18.8            | 85,000          | 0.65           | 55,000       |
| Peas.....                 | 1933  | 3,400     | 28.3            | 96,000          | 1.20           | 115,000      |
|                           | 1934  | 3,600     | 21.6            | 78,000          | 1.35           | 105,000      |
| Beans.....                | 1933  | 800       | 25.5            | 20,000          | 1.20           | 24,000       |
|                           | 1934  | 900       | 28.6            | 26,000          | 1.50           | 39,000       |
| Mixed grains.....         | 1933  | 3,400     | 37.5            | 128,000         | 0.45           | 58,000       |
|                           | 1934  | 3,700     | 37.1            | 137,000         | 0.50           | 69,000       |
| Flaxseed.....             | 1933  | 400       | 9.3             | 4,000           | 0.90           | 4,000        |
|                           | 1934  | 500       | 10.7            | 5,000           | 1.10           | 6,000        |
| Potatoes.....             | 1933  | 18,000    | cwt. 96.0       | cwt. 1,728,000  | per cwt. 1.20  | 2,074,000    |
|                           | 1934  | 19,400    | 116.0           | 2,250,000       | 0.85           | 1,913,000    |
| Turnips, etc.....         | 1933  | 4,900     | 220.0           | 1,078,000       | 0.65           | 701,000      |
|                           | 1934  | 5,100     | 222.0           | 1,132,000       | 0.55           | 623,000      |
| Hay and clover.....       | 1933  | 148,000   | tons. 1.88      | tons. 278,000   | per ton. 12.75 | 3,545,000    |
|                           | 1934  | 150,100   | 2.00            | 300,000         | 11.50          | 3,450,000    |
| Alfalfa.....              | 1933  | 44,100    | 3.02            | 133,000         | 13.50          | 1,796,000    |
|                           | 1934  | 45,700    | 3.15            | 144,000         | 12.50          | 1,800,000    |
| Fodder corn.....          | 1933  | 4,900     | 11.23           | 55,000          | 5.00           | 275,000      |
|                           | 1934  | 5,300     | 12.44           | 66,000          | 5.00           | 330,000      |
| Grain hay.....            | 1933  | 49,000    | 2.00            | 98,000          | 9.00           | 882,000      |
|                           | 1934  | 47,500    | 2.25            | 107,000         | 9.00           | 963,000      |

**Acreages under Pasture.**—Table 7 gives the estimated acreages under pasture in Canada, by provinces, for the years 1928 to 1934.

### 7.—Estimated Acreages under Pasture in Canada, 1928-34.

| Province.             | 1928.            | 1929.            | 1930.            | 1931.            | 1932.            | 1933.            | 1934.            |
|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                       | acres.           | acres.           | acres.           | acres.           | acres.           | acres.           | acres.           |
| P.E. Island.....      | 250,092          | 244,729          | 246,592          | 235,000          | 210,200          | 209,700          | 203,600          |
| Nova Scotia.....      | 866,100          | 866,204          | 866,818          | 866,500          | 704,100          | 704,100          | 709,400          |
| New Brunswick.....    | 500,772          | 487,840          | 490,500          | 474,600          | 518,300          | 516,300          | 535,800          |
| Quebec.....           | 3,858,181        | 3,944,443        | 3,950,000        | 3,686,100        | 2,669,600        | 2,843,700        | 2,919,700        |
| Ontario.....          | 3,000,172        | 3,134,614        | 3,149,460        | 3,031,717        | 3,012,500        | 2,995,500        | 2,908,300        |
| Manitoba.....         | 252,689          | 253,950          | 264,300          | 239,800          | 232,100          | 246,700          | 232,200          |
| Saskatchewan.....     | 408,670          | 406,100          | 419,000          | 400,300          | 444,900          | 451,600          | 453,900          |
| Alberta.....          | 289,973          | 319,338          | 306,400          | 384,900          | 350,500          | 220,000          | 261,800          |
| British Columbia..... | 62,192           | 63,865           | 66,604           | 69,272           | 76,500           | 80,200           | 86,500           |
| Indian Reserves.....  | 39,202           | 47,237           | 39,839           | 39,913           | 46,000           | 49,200           | 42,200           |
| <b>Totals.....</b>    | <b>9,528,043</b> | <b>9,768,320</b> | <b>9,889,513</b> | <b>9,428,102</b> | <b>8,264,700</b> | <b>8,317,000</b> | <b>8,353,400</b> |

The foregoing figures are not entirely comprehensive since the figures for the Maritime Provinces, Quebec and Ontario include all pasture, seeded and natural, while the figures for the four western provinces are "seeded pasture" only. Most of the area used for pasture in these provinces is "natural" and data on land used in this way can only be properly secured at the quinquennial census. At the Census of 1931, the acreages of improved and natural pasture in the three Prairie Provinces were as follows:—

| Province.         | Improved Pasture. | Natural Pasture. |
|-------------------|-------------------|------------------|
|                   | acres.            | acres.           |
| Manitoba.....     | 411,924           | 3,601,644        |
| Saskatchewan..... | 712,371           | 15,755,179       |
| Alberta.....      | 524,586           | 15,960,335       |

The areas under grazing leases in the Western Provinces as at Mar. 31, 1932-34, are reported by the provincial lands administration branches as follows:—

| Province.             | 1932.             |           | 1933.             |                        | 1934.             |           |
|-----------------------|-------------------|-----------|-------------------|------------------------|-------------------|-----------|
|                       | Number of Leases. | Acres.    | Number of Leases. | Acres.                 | Number of Leases. | Acres.    |
| Manitoba.....         | 245               | 103,314   | 239               | 132,111                | 217               | 126,314   |
| Saskatchewan.....     | 6,923             | 3,731,668 | 5,910             | 4,539,350 <sup>1</sup> | 7,555             | 4,228,830 |
| Alberta.....          | 3,948             | 3,367,150 | 3,708             | 3,172,839              | 3,775             | 3,186,838 |
| British Columbia..... | 732               | 64,153    | 777               | 73,771                 | 875               | 100,291   |
| Totals.....           | 11,848            | 7,266,285 | 10,634            | 7,918,071              | 12,422            | 7,642,273 |

<sup>1</sup> Includes provincial forests and school lands grazing permits covering 742,920 acres for which the numbers of leases are not known.

**Average Yields per Acre.**—Table 8 gives, for the years 1927 to 1934, the average yields per acre of the various field crops, together with the long-time average yields per acre.

#### 8.—Annual Average Yields per Acre of Field Crops for Canada, 1927-34, with Long-Time Averages.

| Field Crop.           | 1927. | 1928. | 1929. | 1930. | 1931.              | 1932.             | 1933. | 1934. | Long-time Average. |
|-----------------------|-------|-------|-------|-------|--------------------|-------------------|-------|-------|--------------------|
|                       | bush. | bush. | bush. | bush. | bush.              | bush.             | bush. | bush. | bush.              |
| Wheat.....            | 21.4  | 23.5  | 12.1  | 16.9  | 12.2 <sup>1</sup>  | 16.3 <sup>1</sup> | 10.8  | 11.5  | 17.1               |
| Oats.....             | 33.2  | 34.4  | 22.7  | 31.9  | 25.6 <sup>1</sup>  | 29.8              | 22.7  | 23.4  | 32.3               |
| Barley.....           | 27.7  | 27.9  | 17.3  | 24.3  | 17.8 <sup>1</sup>  | 21.5              | 17.3  | 17.6  | 25.2               |
| Rye.....              | 20.9  | 17.4  | 13.3  | 15.2  | 6.7 <sup>1</sup>   | 10.9 <sup>1</sup> | 7.2   | 7.4   | 16.1               |
| Peas.....             | 18.5  | 16.8  | 15.8  | 18.3  | 16.9 <sup>1</sup>  | 17.9              | 16.3  | 16.7  | 16.9               |
| Beans.....            | 15.5  | 16.7  | 17.3  | 14.6  | 15.3 <sup>1</sup>  | 17.1              | 15.1  | 14.3  | 16.8               |
| Buckwheat.....        | 23.1  | 21.7  | 20.3  | 22.2  | 20.6               | 22.9              | 21.3  | 21.2  | 22.4               |
| Mixed grains.....     | 37.5  | 35.3  | 32.0  | 36.9  | 33.0 <sup>1</sup>  | 33.0              | 28.3  | 32.7  | 34.6               |
| Flaxseed.....         | 10.3  | 9.6   | 5.4   | 8.7   | 3.8 <sup>1</sup>   | 5.9 <sup>1</sup>  | 2.6   | 4.0   | 8.8                |
| Corn for husking..... | 32.4  | 37.7  | 34.1  | 36.1  | 41.3 <sup>1</sup>  | 38.9              | 37.0  | 42.2  | 49.3               |
|                       | cwt.  | cwt.  | cwt.  | cwt.  | cwt.               | cwt.              | cwt.  | cwt.  | cwt.               |
| Potatoes.....         | 81.2  | 83.8  | 73.4  | 84.4  | 88.0 <sup>1</sup>  | 76.0              | 81.0  | 84.0  | 89.0               |
| Turnips, etc.....     | 185.9 | 215.5 | 176.3 | 181.8 | 205.0 <sup>1</sup> | 216.0             | 188.0 | 216.0 | 189.0              |
|                       | tons. | tons. | tons. | tons. | tons.              | tons.             | tons. | tons. | tons.              |
| Hay and clover.....   | 1.7   | 1.6   | 1.5   | 1.5   | 1.6                | 1.5               | 1.3   | 1.3   | 1.5                |
| Fodder corn.....      | 7.5   | 8.3   | 7.9   | 8.2   | 8.6                | 7.8               | 8.3   | 7.7   | 9.0                |
| Sugar beets.....      | 8.9   | 8.4   | 8.4   | 9.0   | 9.1                | 10.8              | 9.9   | 7.9   | 9.4                |
| Alfalfa.....          | 2.4   | 2.4   | 2.3   | 2.2   | 2.5                | 2.7               | 2.3   | 2.0   | 2.4                |

<sup>1</sup>Revised since the publication of the 1933 Year Book.

**Grain Yields of the Prairie Provinces.**—Final estimates of the acreages and yields of the grain crops of the Prairie Provinces (Manitoba, Saskatchewan and Alberta) are given for 1934 in Table 9, together with comparative data for 1933 and 1932.

**9.—Areas and Yields of Wheat, Oats, Barley, Rye and Flaxseed in the Prairie Provinces, 1932-34.**

| Province and Crop.        | Areas.               |            |            | Yields.                  |             |             |
|---------------------------|----------------------|------------|------------|--------------------------|-------------|-------------|
|                           | 1932.                | 1933.      | 1934.      | 1932.                    | 1933.       | 1934.       |
|                           | acres.               | acres.     | acres.     | bush.                    | bush.       | bush.       |
| <b>Prairie Provinces—</b> |                      |            |            |                          |             |             |
| Wheat.....                | 26,395,000           | 25,177,000 | 23,296,000 | 422,947,000 <sup>1</sup> | 263,004,000 | 263,800,000 |
| Oats.....                 | 8,533,000            | 8,945,000  | 9,115,000  | 245,726,000              | 177,422,000 | 172,040,000 |
| Barley.....               | 3,154,100            | 3,032,000  | 2,962,000  | 63,114,000               | 47,243,000  | 44,742,000  |
| Rye.....                  | 706,200              | 519,700    | 669,000    | 7,270,000 <sup>1</sup>   | 3,104,000   | 4,381,000   |
| Flaxseed.....             | 453,500 <sup>1</sup> | 235,900    | 218,400    | 2,640,000 <sup>1</sup>   | 563,000     | 827,000     |
| <b>Manitoba—</b>          |                      |            |            |                          |             |             |
| Wheat.....                | 2,651,000            | 2,536,000  | 2,533,000  | 44,041,000 <sup>1</sup>  | 32,666,000  | 37,100,000  |
| Oats.....                 | 1,463,500            | 1,504,000  | 1,458,000  | 36,826,000               | 29,500,000  | 26,752,000  |
| Barley.....               | 1,123,300            | 1,173,000  | 1,125,000  | 20,014,000               | 16,900,000  | 17,298,000  |
| Rye.....                  | 40,600               | 45,700     | 87,400     | 560,000                  | 575,000     | 1,134,000   |
| Flaxseed.....             | 49,300               | 20,200     | 25,600     | 240,000                  | 110,000     | 180,000     |
| <b>Saskatchewan—</b>      |                      |            |            |                          |             |             |
| Wheat.....                | 15,543,000           | 14,743,000 | 13,262,000 | 211,551,000 <sup>1</sup> | 128,004,000 | 114,200,000 |
| Oats.....                 | 4,364,700            | 4,571,000  | 4,625,000  | 107,400,000              | 75,422,000  | 64,288,000  |
| Barley.....               | 1,329,500            | 1,228,000  | 1,088,000  | 23,400,000               | 17,560,000  | 12,403,000  |
| Rye.....                  | 482,500              | 305,000    | 346,500    | 5,190,000                | 1,777,000   | 1,320,000   |
| Flaxseed.....             | 381,200              | 205,000    | 174,700    | 2,200,000 <sup>1</sup>   | 410,000     | 542,000     |
| <b>Alberta—</b>           |                      |            |            |                          |             |             |
| Wheat.....                | 8,201,000            | 7,898,000  | 7,501,000  | 167,355,000 <sup>1</sup> | 102,334,000 | 112,500,000 |
| Oats.....                 | 2,704,800            | 2,870,000  | 3,032,000  | 101,500,000              | 72,500,000  | 81,000,000  |
| Barley.....               | 701,300              | 631,000    | 749,000    | 19,700,000               | 12,783,000  | 15,041,000  |
| Rye.....                  | 183,100              | 169,000    | 235,100    | 1,520,000 <sup>1</sup>   | 752,000     | 1,927,000   |
| Flaxseed.....             | 23,000 <sup>1</sup>  | 10,700     | 18,100     | 200,000 <sup>1</sup>     | 43,000      | 105,000     |

<sup>1</sup>Revised since the publication of the 1933 Year Book.

**Stocks of Grain in Canada.**—Table 10 shows the quantities of grain in farmers' hands on July 31, 1934, as compared with July 31, 1933 and 1932. Adding the stocks in elevators, in flour mills and in transit, Table 11 shows the total quantities of grain in store at the close of each of the crop years ended July 31, 1932, 1933 and 1934.

**10.—Stocks of Grain in Farmers' Hands on July 31, 1934, as Compared with July 31, 1933 and 1932, with Totals of Production of the Earlier Crops.**

| Kind of Grain. | Total<br>Pro-<br>duction<br>in<br>1931. | In Farmers'<br>Hands,<br>July 31, 1932. |            | Total<br>Pro-<br>duction<br>in<br>1932. | In Farmers'<br>Hands,<br>July 31, 1933. |            | Total<br>Pro-<br>duction<br>in<br>1933. | In Farmers'<br>Hands,<br>July 31, 1934. |            |
|----------------|-----------------------------------------|-----------------------------------------|------------|-----------------------------------------|-----------------------------------------|------------|-----------------------------------------|-----------------------------------------|------------|
|                | 000 bush.                               | p.c.                                    | bush.      | 000 bush.                               | p.c.                                    | bush.      | 000 bush.                               | p.c.                                    | bush.      |
| Wheat.....     | 321,325                                 | 2-33                                    | 7,495,800  | 443,061                                 | 2-79                                    | 12,340,000 | 281,892                                 | 3-10                                    | 8,733,000  |
| Oats.....      | 328,278                                 | 6-95                                    | 22,823,000 | 391,561                                 | 7-07                                    | 27,701,000 | 307,478                                 | 6-29                                    | 19,333,000 |
| Barley.....    | 67,383                                  | 5-16                                    | 3,477,000  | 80,773                                  | 3-84                                    | 3,102,000  | 63,359                                  | 2-90                                    | 1,839,000  |
| Rye.....       | 5,322                                   | 2-74                                    | 146,000    | 8,938                                   | 1-75                                    | 156,600    | 4,177                                   | 0-89                                    | 37,000     |
| Flaxseed.....  | 2,465                                   | 0-29                                    | 7,100      | 2,446                                   | 0-72                                    | 17,700     | 632                                     | 0-54                                    | 3,400      |



## 11.—Detailed Stocks of Grain in Canada on July 31, 1932, 1933 and 1934.

| Item.                                                                        | Wheat.                         |                    |                    | Oats.                         |                   |                   |
|------------------------------------------------------------------------------|--------------------------------|--------------------|--------------------|-------------------------------|-------------------|-------------------|
|                                                                              | July 31,<br>1932.              | July 31,<br>1933.  | July 31,<br>1934.  | July 31,<br>1932.             | July 31,<br>1933. | July 31,<br>1934. |
|                                                                              | bush.                          | bush.              | bush.              | bush.                         | bush.             | bush.             |
| Held in—                                                                     |                                |                    |                    |                               |                   |                   |
| Farmers' hands.....                                                          | 7,495,800                      | 12,340,000         | 8,733,000          | 22,823,000                    | 27,701,000        | 19,333,000        |
| Country, private and mill<br>elevators and mills in<br>Western Division..... | 33,508,492                     | 77,855,091         | 70,354,868         | 1,464,029                     | 6,355,786         | 4,712,471         |
| Terminal elevators in West-<br>ern Inspection Division....                   | 60,781,336                     | 75,149,928         | 73,095,127         | 3,209,412                     | 4,078,148         | 2,865,626         |
| Eastern elevators.....                                                       | 17,839,890                     | 34,171,909         | 31,589,203         | 1,335,807                     | 1,714,231         | 2,768,193         |
| Flour mills (eastern).....                                                   | 2,895,905 <sup>1</sup>         | 3,198,366          | 1,826,119          | 476,995 <sup>1</sup>          | 961,775           | 754,702           |
| Transit.....                                                                 | 9,323,383                      | 9,024,894          | 7,724,546          | 540,076                       | 1,233,818         | 595,288           |
| <b>Totals.....</b>                                                           | <b>131,844,806<sup>1</sup></b> | <b>211,740,188</b> | <b>193,322,863</b> | <b>29,849,319<sup>1</sup></b> | <b>42,044,758</b> | <b>31,029,289</b> |

| Item.                                                                        | Barley.           |                   |                   | Rye.                         |                   |                   |
|------------------------------------------------------------------------------|-------------------|-------------------|-------------------|------------------------------|-------------------|-------------------|
|                                                                              | July 31,<br>1932. | July 31,<br>1933. | July 31,<br>1934. | July 31,<br>1932.            | July 31,<br>1933. | July 31,<br>1934. |
|                                                                              | bush.             | bush.             | bush.             | bush.                        | bush.             | bush.             |
| Held in—                                                                     |                   |                   |                   |                              |                   |                   |
| Farmers' hands.....                                                          | 3,477,000         | 3,102,000         | 1,839,000         | 146,000                      | 156,600           | 37,000            |
| Country, private and mill<br>elevators and mills in<br>Western Division..... | 1,350,453         | 3,559,341         | 2,853,950         | 532,663                      | 914,134           | 583,634           |
| Terminal elevators in West-<br>ern Inspection Division....                   | 1,441,804         | 3,308,455         | 3,964,957         | 2,550,290                    | 3,422,406         | 2,516,462         |
| Eastern elevators.....                                                       | 369,709           | 865,646           | 2,013,099         | 1,535,827                    | 1,180,809         | 813,329           |
| Flour mills (eastern).....                                                   | 78,735            | 109,861           | 75,930            | 37,836 <sup>1</sup>          | 12,855            | 3,031             |
| Transit.....                                                                 | 477,954           | 393,019           | 342,249           | 616,099                      | 127,923           | 42,851            |
| <b>Totals.....</b>                                                           | <b>7,195,655</b>  | <b>11,338,322</b> | <b>11,089,185</b> | <b>5,418,715<sup>1</sup></b> | <b>5,814,727</b>  | <b>3,996,307</b>  |

| Item.                                                                 | Flaxseed.         |                   |                   |
|-----------------------------------------------------------------------|-------------------|-------------------|-------------------|
|                                                                       | July 31,<br>1932. | July 31,<br>1933. | July 31,<br>1934. |
|                                                                       | 000 bush.         | 000 bush.         | 000 bush.         |
| Held in—                                                              |                   |                   |                   |
| Farmers' hands.....                                                   | 7,100             | 17,700            | 3,400             |
| Country, private and mill elevators and mills in Western Division.... | 173,379           | 226,943           | 124,279           |
| Terminal elevators in Western Inspection Division.....                | 1,041,394         | 768,131           | 334,568           |
| Eastern elevators.....                                                | 33,790            | 88,719            | —                 |
| Flour mills (eastern).....                                            | —                 | 1,824             | 235               |
| Transit.....                                                          | 65,695            | 76,258            | 8,813             |
| <b>Totals.....</b>                                                    | <b>1,321,358</b>  | <b>1,179,575</b>  | <b>471,295</b>    |

<sup>1</sup>Revised since the publication of the 1933 Year Book.

**Distribution of Wheat and Oat Crops.**—The distribution of the wheat crop of Canada for the years ended July 31, 1933 and 1934, is calculated in Table 12.

## 12.—Distribution of the Canadian Wheat Crops, by crop years, 1932-33 and 1933-34.

**NOTE.**—Flour is expressed as wheat on the basis of one barrel of flour, weighing 196 lb., being equal to  $4\frac{1}{2}$  bushels of wheat. For similar calculations extending over a series of years both for wheat and oats, see the Year Book, 1920, pp. 263-266, and the April issues of the Monthly Bulletin of Agricultural Statistics for each of the years 1920 to 1933.

| Item.                                              | Crop year<br>ended<br>July 31,<br>1933. | Crop year<br>ended<br>July 31,<br>1934. | Item.                                                | Crop year<br>ended<br>July 31,<br>1933. | Crop year<br>ended<br>July 31,<br>1934. |
|----------------------------------------------------|-----------------------------------------|-----------------------------------------|------------------------------------------------------|-----------------------------------------|-----------------------------------------|
|                                                    | 000 bush.                               | 000 bush.                               |                                                      | 000 bush.                               | 000 bush.                               |
| Carry-overs, Aug. 1, 1932<br>and Aug. 1, 1933..... | 131,845                                 | 211,740                                 | Exports as grain.....                                | 240,137                                 | 170,234                                 |
| Gross production.....                              | 443,061                                 | 281,892                                 | Exports as flour.....                                | 24,168                                  | 24,546                                  |
| Loss in cleaning.....                              | 7,200                                   | 4,500                                   | Totals, exports.....                                 | 264,305                                 | 194,780                                 |
| Grain not merchantable....                         | 2,108                                   | 2,965                                   | Retained as seed.....                                | 32,277                                  | 33,183                                  |
| Net production and carry-<br>overs.....            | 565,598                                 | 480,124                                 | Retained for feed.....                               | 22,996                                  | 17,040                                  |
| Imports.....                                       | 173                                     | 413                                     | Milled for food.....                                 | 43,621                                  | 43,621                                  |
| Available for distribution..                       | 565,771                                 | 480,537                                 | Carry-overs, July 31, 1933<br>and July 31, 1934..... | 211,740                                 | 193,323                                 |
|                                                    |                                         |                                         | Balances otherwise dis-<br>posed of.....             | — 9,168                                 | 5,633                                   |

Table 13 presents similar data for oats. The bulk of this crop is consumed as feed for live stock and the table shows approximately how the remaining portion of the crop is disposed of, including: the quantities exported as grain, oatmeal and rolled oats; the quantity retained for seed; and the quantity milled for home consumption, representing chiefly oatmeal and rolled oats used for human food. The carry-over represents grain in the elevators, in farmers' hands, in transit, etc., and the balance is the quantity used in Canada for feeding to live stock, this amount being estimated at 317,442,000 bushels in 1932-33 and 260,531,000 bushels in 1933-34.

**13.—Distribution of the Canadian Oat Crops, by crop years, 1932-33 and 1933-34.**

| Item.                                           | Crop year ended July 31, 1933. | Crop year ended July 31, 1934. | Item.                                             | Crop year ended July 31, 1933. | Crop year ended July 31, 1934. |
|-------------------------------------------------|--------------------------------|--------------------------------|---------------------------------------------------|--------------------------------|--------------------------------|
|                                                 | 000 bush.                      | 000 bush.                      |                                                   | 000 bush.                      | 000 bush.                      |
| Carry-overs, Aug. 1, 1932 and Aug. 1, 1933..... | 29,849                         | 42,045                         | Exports as meal, etc.....                         | 3,342                          | 3,052                          |
| Gross production.....                           | 391,561                        | 307,478                        | Totals, exports.....                              | 14,418                         | 9,140                          |
| Grain not merchantable.....                     | 8,094                          | 7,769                          | Retained as seed.....                             | 33,822                         | 34,327                         |
| Net production and carry-overs.....             | 413,316                        | 341,754                        | Milled for home consumption.....                  | 7,215                          | 6,769                          |
| Imports.....                                    | 2,032                          | 21                             | Carry-overs, July 31, 1933 and July 31, 1934..... | 42,044                         | 31,029                         |
| Available for distribution..                    | 415,348                        | 341,796                        | Balances for home consumption as grain.....       | 317,442                        | 260,531                        |
| Exports as grain.....                           | 11,076                         | 6,088                          |                                                   |                                |                                |

**Per Capita Consumption of Wheat in Canada.**—According to revised calculations, the average per capita consumption of wheat ground for human food in Canada during the ten years 1924 to 1933 was 4.3 bushels. The average range for the period was between 4.0 and 4.5 bushels. The average consumption in 1933 was estimated at 4.1 bushels. Details for the years 1919-27 were given at p. 241 of the 1929 Year Book, while annual estimates are published in the April number of the Monthly Bulletin of Agricultural Statistics.

**Subsection 3.—Farm Live Stock and Poultry.**

The growth of the live-stock and poultry industries in Canada from decade to decade is indicated in summary statistical form in Table 14, while some authoritative details will be found in the article "The Development of Agriculture in Canada", contributed by Dr. J. H. Grisdale to the 1921 Year Book, where it appears at pp. 202-210.

**14.—Summary Statistics of the Numbers of Live Stock and Poultry on Farms in the Dominion of Canada, Censuses of 1871-1931.**

| Item.                  | 1871.     | 1881.     | 1891.                   | 1901.      | 1911.      | 1921. <sup>2</sup> | 1931.                   |
|------------------------|-----------|-----------|-------------------------|------------|------------|--------------------|-------------------------|
|                        | No.       | No.       | No.                     | No.        | No.        | No.                | No.                     |
| Horses.....            | 836,743   | 1,059,358 | 1,470,572               | 1,577,493  | 2,598,958  | 3,610,494          | 3,113,909               |
| Cattle.....            | 2,624,290 | 3,433,989 | 4,120,586               | 5,576,451  | 6,526,083  | 8,519,484          | 7,973,031               |
| Sheep.....             | 3,155,509 | 3,048,678 | 2,563,781               | 2,510,239  | 2,174,300  | 3,203,966          | 3,627,116               |
| Swine.....             | 1,366,083 | 1,207,619 | 1,733,850               | 2,353,828  | 3,634,778  | 3,040,730          | 4,699,331               |
| All poultry.....       | —         | —         | 14,105,102 <sup>1</sup> | 17,922,658 | 31,793,261 | 50,325,248         | 65,184,689 <sup>3</sup> |
| Hens and chickens..... | —         | —         | 12,696,701              | 16,651,337 | 29,773,457 | 48,021,647         | 61,277,229              |
| Turkeys.....           | —         | —         | 458,306                 | 584,569    | 863,182    | 1,096,721          | 2,223,197               |
| Ducks.....             | —         | —         | 320,169                 | 290,755    | 527,098    | 603,152            | 749,930                 |
| Geese.....             | —         | —         | 537,932                 | 395,997    | 629,524    | 603,728            | 902,251                 |
| Hives of bees.....     | 144,791   | —         | 199,288                 | 189,986    | 180,372    | 185,530            | 215,349                 |

<sup>1</sup> Includes 91,994 unspecified. <sup>2</sup> Includes live stock elsewhere than on farms as follows: horses 158,742, cattle 149,995, sheep 3,499, swine 80,439, poultry 6,978,054, hives 37,425. <sup>3</sup> Includes 32,082 other poultry.

## 15.—Estimated Numbers and Values of Farm Live Stock in Canada, by Provinces, 1931-34.

| Province and Item.    | 1931.                  | 1932.                  | 1933.     | 1934.     | 1931.                      | 1932.                      | 1933.          | 1934.          |
|-----------------------|------------------------|------------------------|-----------|-----------|----------------------------|----------------------------|----------------|----------------|
|                       | No.                    | No.                    | No.       | No.       | 000<br>\$                  | 000<br>\$                  | 000<br>\$      | 000<br>\$      |
| <b>Canada—</b>        |                        |                        |           |           |                            |                            |                |                |
| Horses.....           | 3,113,909 <sup>1</sup> | 3,088,630              | 2,984,095 | 2,933,491 | 155,908                    | 141,640                    | 154,215        | 168,132        |
| Milch cows.....       | 3,371,923 <sup>1</sup> | 3,594,500 <sup>1</sup> | 3,694,000 | 3,864,200 | 143,616 <sup>1</sup>       | 114,814                    | 113,115        | 110,721        |
| Other cattle.....     | 4,601,108 <sup>1</sup> | 4,916,600 <sup>1</sup> | 5,182,000 | 5,087,700 | 114,201 <sup>1</sup>       | 84,497                     | 88,452         | 84,657         |
| Totals, cattle.....   | 7,973,031 <sup>1</sup> | 8,511,100              | 8,876,000 | 8,951,900 | 257,817 <sup>1</sup>       | 199,311                    | 201,567        | 195,378        |
| Sheep.....            | 3,627,116 <sup>1</sup> | 3,644,500              | 3,385,800 | 3,421,100 | 18,596                     | 12,084                     | 13,549         | 14,298         |
| Swine.....            | 4,699,831 <sup>1</sup> | 4,639,100              | 3,800,700 | 3,654,000 | 32,773                     | 21,964                     | 33,804         | 36,029         |
| <b>Totals.....</b>    | <b>—</b>               | <b>—</b>               | <b>—</b>  | <b>—</b>  | <b>465,094<sup>1</sup></b> | <b>374,999<sup>1</sup></b> | <b>403,135</b> | <b>413,837</b> |
| <b>P. E. Island—</b>  |                        |                        |           |           |                            |                            |                |                |
| Horses.....           | 29,956 <sup>1</sup>    | 29,360                 | 28,905    | 27,430    | 2,189                      | 1,644                      | 1,850          | 2,085          |
| Milch cows.....       | 44,000                 | 44,900                 | 46,000    | 46,300    | 1,540                      | 1,347                      | 1,196          | 1,158          |
| Other cattle.....     | 56,487 <sup>1</sup>    | 57,900                 | 59,500    | 50,500    | 1,210                      | 869                        | 952            | 753            |
| Totals, cattle.....   | 100,487 <sup>1</sup>   | 102,800                | 105,500   | 96,800    | 2,750                      | 2,216                      | 2,148          | 1,916          |
| Sheep.....            | 78,478 <sup>1</sup>    | 68,000                 | 64,200    | 54,100    | 304                        | 214                        | 257            | 216            |
| Swine.....            | 40,586 <sup>1</sup>    | 41,500                 | 33,700    | 31,500    | 280                        | 215                        | 309            | 288            |
| <b>Totals.....</b>    | <b>—</b>               | <b>—</b>               | <b>—</b>  | <b>—</b>  | <b>5,523</b>               | <b>4,289</b>               | <b>4,564</b>   | <b>4,505</b>   |
| <b>Nova Scotia—</b>   |                        |                        |           |           |                            |                            |                |                |
| Horses.....           | 43,074 <sup>1</sup>    | 42,720                 | 41,590    | 41,900    | 3,834                      | 3,418                      | 3,327          | 3,478          |
| Milch cows.....       | 108,000                | 112,800                | 119,600   | 124,100   | 4,535                      | 3,835                      | 3,827          | 3,351          |
| Other cattle.....     | 113,001 <sup>1</sup>   | 125,900                | 126,500   | 120,300   | 2,825                      | 2,518                      | 2,657          | 1,925          |
| Totals, cattle.....   | 221,001 <sup>1</sup>   | 238,700                | 246,100   | 244,400   | 7,361                      | 6,353                      | 6,484          | 5,276          |
| Sheep.....            | 196,344 <sup>1</sup>   | 155,700                | 148,300   | 145,300   | 975                        | 575                        | 584            | 545            |
| Swine.....            | 43,865 <sup>1</sup>    | 53,400                 | 42,500    | 41,600    | 437                        | 434                        | 434            | 443            |
| <b>Totals.....</b>    | <b>—</b>               | <b>—</b>               | <b>—</b>  | <b>—</b>  | <b>12,607</b>              | <b>10,780</b>              | <b>10,829</b>  | <b>9,742</b>   |
| <b>New Brunswick—</b> |                        |                        |           |           |                            |                            |                |                |
| Horses.....           | 51,157 <sup>1</sup>    | 52,930                 | 52,880    | 51,200    | 5,079                      | 4,234                      | 4,653          | 4,454          |
| Milch cows.....       | 101,000                | 109,300                | 110,500   | 114,500   | 3,838                      | 3,607                      | 3,205          | 3,206          |
| Other cattle.....     | 112,450 <sup>1</sup>   | 111,700                | 126,100   | 112,200   | 2,486                      | 1,899                      | 2,144          | 1,683          |
| Totals, cattle.....   | 213,450 <sup>1</sup>   | 221,000                | 236,600   | 226,700   | 6,324                      | 5,506                      | 5,349          | 4,889          |
| Sheep.....            | 143,677 <sup>1</sup>   | 131,000                | 120,300   | 113,900   | 572                        | 468                        | 462            | 456            |
| Swine.....            | 85,012 <sup>1</sup>    | 96,300                 | 72,700    | 70,800    | 847                        | 849                        | 680            | 874            |
| <b>Totals.....</b>    | <b>—</b>               | <b>—</b>               | <b>—</b>  | <b>—</b>  | <b>12,822</b>              | <b>11,057</b>              | <b>11,144</b>  | <b>10,673</b>  |
| <b>Quebec—</b>        |                        |                        |           |           |                            |                            |                |                |
| Horses.....           | 301,419 <sup>1</sup>   | 297,410                | 267,600   | 264,500   | 26,495                     | 26,767                     | 25,690         | 28,302         |
| Milch cows.....       | 892,000                | 932,800                | 952,500   | 947,000   | 33,896                     | 27,984                     | 27,623         | 27,463         |
| Other cattle.....     | 815,449 <sup>1</sup>   | 944,100                | 807,500   | 778,600   | 17,388                     | 12,273                     | 9,690          | 10,122         |
| Totals, cattle.....   | 1,707,449 <sup>1</sup> | 1,876,900              | 1,760,000 | 1,725,600 | 51,284                     | 40,257                     | 37,313         | 37,585         |
| Sheep.....            | 733,684 <sup>1</sup>   | 751,400                | 666,400   | 612,000   | 4,392                      | 2,254                      | 2,666          | 2,448          |
| Swine.....            | 728,210 <sup>1</sup>   | 667,300                | 481,700   | 551,400   | 7,254                      | 4,671                      | 5,299          | 7,168          |
| <b>Totals.....</b>    | <b>—</b>               | <b>—</b>               | <b>—</b>  | <b>—</b>  | <b>89,425</b>              | <b>73,940</b>              | <b>70,968</b>  | <b>75,503</b>  |
| <b>Ontario—</b>       |                        |                        |           |           |                            |                            |                |                |
| Horses.....           | 577,322 <sup>1</sup>   | 578,000                | 574,262   | 563,700   | 41,640                     | 36,414                     | 43,070         | 45,660         |
| Milch cows.....       | 1,098,000              | 1,175,000              | 1,183,200 | 1,176,800 | 52,704                     | 39,950                     | 40,229         | 37,658         |
| Other cattle.....     | 1,416,344 <sup>1</sup> | 1,354,000              | 1,340,600 | 1,317,700 | 40,310                     | 27,080                     | 28,153         | 28,989         |
| Totals, cattle.....   | 2,514,344 <sup>1</sup> | 2,529,000              | 2,523,800 | 2,494,500 | 93,014                     | 67,030                     | 68,382         | 66,647         |
| Sheep.....            | 1,044,624 <sup>1</sup> | 1,040,000              | 1,000,900 | 962,300   | 6,210                      | 4,077                      | 4,484          | 5,042          |
| Swine.....            | 1,359,176 <sup>1</sup> | 1,375,000              | 1,257,900 | 1,177,900 | 11,040                     | 7,219                      | 12,164         | 11,779         |
| <b>Totals.....</b>    | <b>—</b>               | <b>—</b>               | <b>—</b>  | <b>—</b>  | <b>151,904</b>             | <b>114,740</b>             | <b>128,160</b> | <b>129,128</b> |
| <b>Manitoba—</b>      |                        |                        |           |           |                            |                            |                |                |
| Horses.....           | 324,659 <sup>1</sup>   | 341,500                | 307,000   | 296,000   | 13,714                     | 12,977                     | 13,815         | 14,504         |
| Milch cows.....       | 237,000                | 257,000                | 304,500   | 339,100   | 9,006                      | 7,453                      | 7,917          | 7,799          |
| Other cattle.....     | 431,878 <sup>1</sup>   | 477,500                | 501,400   | 455,700   | 10,143                     | 7,640                      | 8,022          | 6,380          |
| Totals, cattle.....   | 668,878 <sup>1</sup>   | 734,500                | 805,900   | 794,800   | 19,149                     | 15,093                     | 15,939         | 14,179         |
| Sheep.....            | 216,790 <sup>1</sup>   | 199,100                | 212,800   | 216,000   | 856                        | 561                        | 751            | 754            |
| Swine.....            | 390,043 <sup>1</sup>   | 337,900                | 262,300   | 242,000   | 2,326                      | 1,352                      | 2,188          | 2,255          |
| <b>Totals.....</b>    | <b>—</b>               | <b>—</b>               | <b>—</b>  | <b>—</b>  | <b>36,045</b>              | <b>29,983</b>              | <b>32,693</b>  | <b>31,692</b>  |

<sup>1</sup> Revised since the publication of the 1933 Year Book.

**15.—Estimated Numbers and Values of Farm Live Stock in Canada, by Provinces, 1931-34—concluded.**

| Province and Item.       | 1931.                  | 1932.                | 1933.     | 1934.     | 1931.                     | 1932.              | 1933.         | 1934.         |
|--------------------------|------------------------|----------------------|-----------|-----------|---------------------------|--------------------|---------------|---------------|
|                          | No.                    | No.                  | No.       | No.       | 000<br>\$                 | 000<br>\$          | 000<br>\$     | 000<br>\$     |
| <b>Saskatchewan—</b>     |                        |                      |           |           |                           |                    |               |               |
| Horses.....              | 997,426 <sup>1</sup>   | 963,000              | 946,900   | 932,200   | 36,150                    | 32,742             | 35,982        | 39,152        |
| Milch cows.....          | 424,000                | 453,600              | 480,400   | 556,000   | 16,536                    | 13,154             | 12,971        | 13,344        |
| Other cattle.....        | 764,884 <sup>1</sup>   | 874,000              | 965,700   | 948,500   | 16,808                    | 13,984             | 14,486        | 13,279        |
| Totals, cattle.....      | 1,188,884 <sup>1</sup> | 1,327,600            | 1,446,100 | 1,504,500 | 33,344                    | 27,138             | 27,457        | 26,623        |
| Sheep.....               | 281,013 <sup>1</sup>   | 313,700              | 360,000   | 448,200   | 1,116                     | 941                | 1,246         | 1,479         |
| Swine.....               | 949,055 <sup>1</sup>   | 898,000              | 648,600   | 596,400   | 4,702                     | 3,143              | 5,059         | 5,129         |
| <b>Totals.....</b>       | <b>—</b>               | <b>—</b>             | <b>—</b>  | <b>—</b>  | <b>75,312</b>             | <b>63,964</b>      | <b>69,744</b> | <b>72,383</b> |
| <b>Alberta—</b>          |                        |                      |           |           |                           |                    |               |               |
| Horses.....              | 731,739 <sup>1</sup>   | 726,010              | 706,300   | 698,300   | 23,424                    | 20,328             | 22,602        | 27,234        |
| Milch cows.....          | 385,000                | 424,000              | 406,500   | 461,700   | 16,170                    | 13,144             | 11,786        | 12,004        |
| Other cattle.....        | 739,615 <sup>1</sup>   | 799,600              | 1,065,300 | 1,108,500 | 18,048                    | 13,593             | 17,045        | 16,628        |
| Totals, cattle.....      | 1,124,615 <sup>1</sup> | 1,223,600            | 1,471,800 | 1,570,200 | 34,218                    | 26,737             | 28,834        | 28,632        |
| Sheep.....               | 785,929 <sup>1</sup>   | 833,700              | 664,300   | 696,200   | 3,156                     | 2,234              | 2,352         | 2,492         |
| Swine.....               | 1,052,128 <sup>1</sup> | 1,118,000            | 954,000   | 896,100   | 5,315                     | 3,667              | 7,203         | 7,572         |
| <b>Totals.....</b>       | <b>—</b>               | <b>—</b>             | <b>—</b>  | <b>—</b>  | <b>66,113</b>             | <b>52,966</b>      | <b>60,991</b> | <b>65,930</b> |
| <b>British Columbia—</b> |                        |                      |           |           |                           |                    |               |               |
| Horses.....              | 57,157 <sup>1</sup>    | 57,700               | 58,658    | 58,262    | 3,383                     | 3,116              | 3,226         | 3,263         |
| Milch cows.....          | 82,923 <sup>1</sup>    | 85,100 <sup>1</sup>  | 90,800    | 98,700    | 5,390 <sup>1</sup>        | 4,340 <sup>1</sup> | 4,358         | 4,738         |
| Other cattle.....        | 151,000 <sup>1</sup>   | 171,900 <sup>1</sup> | 189,400   | 195,700   | 4,983 <sup>1</sup>        | 4,641 <sup>1</sup> | 5,303         | 4,893         |
| Totals, cattle.....      | 233,923 <sup>1</sup>   | 257,000              | 280,200   | 294,400   | 10,373 <sup>1</sup>       | 8,981 <sup>1</sup> | 9,661         | 9,631         |
| Sheep.....               | 146,577 <sup>1</sup>   | 151,900              | 148,600   | 173,100   | 1,015                     | 760                | 747           | 866           |
| Swine.....               | 51,756 <sup>1</sup>    | 51,700               | 47,300    | 46,300    | 572                       | 414                | 468           | 521           |
| <b>Totals.....</b>       | <b>—</b>               | <b>—</b>             | <b>—</b>  | <b>—</b>  | <b>15,343<sup>1</sup></b> | <b>13,271</b>      | <b>14,102</b> | <b>14,281</b> |

<sup>1</sup>Revised since the publication of the 1933 Year Book.

**16.—Average Values per Head of Farm Live Stock in Canada, as Estimated by Crop Correspondents, 1925-34.**

| Province and Item.           | 1925. | 1926. | 1927. | 1928. | 1929. | 1930. | 1931.           | 1932. | 1933.           | 1934. |
|------------------------------|-------|-------|-------|-------|-------|-------|-----------------|-------|-----------------|-------|
|                              | \$    | \$    | \$    | \$    | \$    | \$    | \$              | \$    | \$              | \$    |
| <b>Canada—</b>               |       |       |       |       |       |       |                 |       |                 |       |
| Horses.....                  | 69    | 72    | 76    | 76    | 70    | 61    | 50              | 46    | 52              | 57    |
| Milch cows.....              | 51    | 52    | 61    | 72    | 74    | 59    | 43              | 32    | 31              | 29    |
| Other cattle.....            | 31    | 31    | 39    | 46    | 47    | 35    | 25              | 17    | 17              | 17    |
| Total cattle.....            | 39    | 41    | 48    | 57    | 58    | 45    | 32              | 23    | 23 <sup>1</sup> | 22    |
| Sheep.....                   | 10    | 10    | 10    | 10    | 10    | 7     | 5               | 3-32  | 4-00            | 4-18  |
| Swine.....                   | 16    | 16    | 14    | 15    | 16    | 15    | 7               | 4-73  | 8-89            | 9-86  |
| <b>Prince Edward Island—</b> |       |       |       |       |       |       |                 |       |                 |       |
| Horses.....                  | 84    | 91    | 91    | 101   | 96    | 92    | 73 <sup>1</sup> | 56    | 64              | 76    |
| Milch cows.....              | 50    | 50    | 51    | 62    | 61    | 53    | 35              | 30    | 26              | 25    |
| Other cattle.....            | 28    | 28    | 32    | 35    | 37    | 32    | 22              | 15    | 16              | 15    |
| Total cattle.....            | 39    | 39    | 41    | 49    | 48    | 41    | 27 <sup>1</sup> | 22    | 20              | 20    |
| Sheep.....                   | 9     | 9     | 9     | 10    | 9     | 7     | 4               | 3-15  | 4-00            | 4-00  |
| Swine.....                   | 20    | 15    | 15    | 16    | 16    | 16    | 7               | 5-19  | 9-16            | 9-15  |
| <b>Nova Scotia—</b>          |       |       |       |       |       |       |                 |       |                 |       |
| Horses.....                  | 94    | 93    | 107   | 111   | 102   | 98    | 86              | 80    | 80              | 83    |
| Milch cows.....              | 46    | 48    | 51    | 61    | 59    | 52    | 42              | 34    | 32              | 27    |
| Other cattle.....            | 30    | 27    | 29    | 37    | 38    | 32    | 25              | 20    | 21              | 16    |
| Total cattle.....            | 37    | 37    | 40    | 49    | 48    | 42    | 33              | 27    | 26              | 22    |
| Sheep.....                   | 7     | 7     | 7     | 8     | 7     | 6     | 5               | 3-69  | 3-94            | 3-75  |
| Swine.....                   | 14    | 18    | 18    | 17    | 19    | 17    | 10              | 8-13  | 10-21           | 10-64 |
| <b>New Brunswick—</b>        |       |       |       |       |       |       |                 |       |                 |       |
| Horses.....                  | 101   | 109   | 116   | 120   | 114   | 101   | 99 <sup>1</sup> | 80    | 88              | 87    |
| Milch cows.....              | 46    | 46    | 46    | 54    | 58    | 49    | 38              | 33    | 29              | 28    |
| Other cattle.....            | 30    | 26    | 27    | 30    | 32    | 30    | 22              | 17    | 17              | 15    |
| Total cattle.....            | 38    | 37    | 37    | 43    | 45    | 39    | 30              | 25    | 23              | 22    |
| Sheep.....                   | 7     | 8     | 7     | 8     | 8     | 6     | 4               | 3-57  | 3-84            | 4-00  |
| Swine.....                   | 19    | 22    | 20    | 22    | 21    | 18    | 10              | 8-82  | 9-35            | 12-34 |
| <b>Quebec—</b>               |       |       |       |       |       |       |                 |       |                 |       |
| Horses.....                  | 98    | 101   | 106   | 108   | 106   | 95    | 87              | 90    | 96              | 107   |
| Milch cows.....              | 51    | 49    | 54    | 64    | 70    | 54    | 38              | 30    | 29              | 29    |
| Other cattle.....            | 27    | 26    | 29    | 34    | 38    | 30    | 21              | 13    | 12              | 13    |
| Total cattle.....            | 40    | 39    | 43    | 51    | 55    | 42    | 30              | 21    | 21              | 22    |
| Sheep.....                   | 9     | 9     | 9     | 10    | 9     | 6     | 6               | 3-00  | 4-00            | 4-00  |
| Swine.....                   | 18    | 18    | 17    | 18    | 19    | 16    | 10              | 7-00  | 11-00           | 13-00 |

<sup>1</sup>Revised since the publication of the 1933 Year Book.



## 16.—Average Values per Head of Farm Live Stock in Canada, as Estimated by Crop Correspondents, 1925-34—concluded.

| Province and Item.       | 1925. | 1926. | 1927. | 1928. | 1929. | 1930. | 1931.           | 1932.           | 1933. | 1934. |
|--------------------------|-------|-------|-------|-------|-------|-------|-----------------|-----------------|-------|-------|
|                          | \$    | \$    | \$    | \$    | \$    | \$    | \$              | \$              | \$    | \$    |
| <b>Ontario—</b>          |       |       |       |       |       |       |                 |                 |       |       |
| Horses.....              | 89    | 95    | 101   | 99    | 94    | 81    | 72              | 63              | 75    | 81    |
| Milch cows.....          | 60    | 63    | 74    | 84    | 85    | 66    | 48              | 34              | 34    | 32    |
| Other cattle.....        | 39    | 39    | 48    | 54    | 53    | 39    | 28 <sup>1</sup> | 20              | 21    | 22    |
| Total cattle.....        | 48    | 51    | 60    | 68    | 68    | 51    | 37              | 27              | 27    | 27    |
| Sheep.....               | 12    | 12    | 12    | 12    | 12    | 8     | 6               | 3.92            | 4.48  | 5.24  |
| Swine.....               | 15    | 15    | 13    | 14    | 15    | 14    | 8               | 5.25            | 9.67  | 10.00 |
| <b>Manitoba—</b>         |       |       |       |       |       |       |                 |                 |       |       |
| Horses.....              | 69    | 70    | 77    | 75    | 64    | 52    | 42              | 38              | 45    | 49    |
| Milch cows.....          | 44    | 46    | 53    | 70    | 69    | 54    | 38              | 29              | 26    | 23    |
| Other cattle.....        | 25    | 29    | 38    | 47    | 47    | 34    | 23              | 16              | 16    | 14    |
| Total cattle.....        | 33    | 35    | 45    | 56    | 54    | 40    | 29              | 21              | 20    | 18    |
| Sheep.....               | 10    | 9     | 9     | 10    | 10    | 6     | 4               | 2.82            | 3.53  | 3.49  |
| Swine.....               | 16    | 16    | 13    | 15    | 16    | 14    | 6               | 4.00            | 8.34  | 9.32  |
| <b>Saskatchewan—</b>     |       |       |       |       |       |       |                 |                 |       |       |
| Horses.....              | 66    | 66    | 66    | 65    | 56    | 50    | 36              | 34              | 38    | 42    |
| Milch cows.....          | 41    | 41    | 51    | 65    | 65    | 58    | 39              | 29              | 27    | 24    |
| Other cattle.....        | 26    | 27    | 37    | 46    | 45    | 32    | 22              | 16              | 15    | 14    |
| Total cattle.....        | 31    | 32    | 42    | 53    | 52    | 41    | 28 <sup>1</sup> | 20              | 19    | 18    |
| Sheep.....               | 9     | 9     | 9     | 10    | 9     | 6     | 4               | 3.00            | 3.46  | 3.30  |
| Swine.....               | 16    | 17    | 13    | 14    | 16    | 16    | 5               | 3.50            | 7.80  | 8.60  |
| <b>Alberta—</b>          |       |       |       |       |       |       |                 |                 |       |       |
| Horses.....              | 43    | 45    | 52    | 51    | 49    | 41    | 32              | 28              | 32    | 39    |
| Milch cows.....          | 40    | 43    | 55    | 68    | 74    | 58    | 42              | 31              | 29    | 26    |
| Other cattle.....        | 26    | 28    | 38    | 48    | 49    | 35    | 24              | 17              | 16    | 15    |
| Total cattle.....        | 30    | 33    | 43    | 53    | 55    | 41    | 30              | 22              | 20    | 18    |
| Sheep.....               | 10    | 10    | 10    | 10    | 9     | 6     | 4               | 2.68            | 3.54  | 3.58  |
| Swine.....               | 15    | 15    | 13    | 13    | 15    | 14    | 5               | 3.28            | 7.55  | 8.45  |
| <b>British Columbia—</b> |       |       |       |       |       |       |                 |                 |       |       |
| Horses.....              | 75    | 78    | 78    | 76    | 77    | 72    | 59 <sup>1</sup> | 54              | 55    | 56    |
| Milch cows.....          | 66    | 68    | 75    | 84    | 84    | 77    | 65              | 51              | 48    | 48    |
| Other cattle.....        | 36    | 35    | 43    | 51    | 52    | 42    | 33              | 27              | 28    | 25    |
| Total cattle.....        | 44    | 43    | 51    | 60    | 61    | 53    | 44 <sup>1</sup> | 35 <sup>1</sup> | 34    | 33    |
| Sheep.....               | 13    | 12    | 12    | 12    | 12    | 9     | 7               | 5.00            | 5.03  | 5.00  |
| Swine.....               | 17    | 19    | 19    | 19    | 19    | 18    | 11              | 8.00            | 9.90  | 11.25 |

<sup>1</sup> Revised since the publication of the 1933 Year Book.

## 17.—Estimated Numbers and Values of Farm Poultry in Canada, 1933 and 1934.

| Province and Item.         | No.        | Average Value per Head. | Total Value. | Province and Item.         | No.       | Average Value per Head. | Total Value. |
|----------------------------|------------|-------------------------|--------------|----------------------------|-----------|-------------------------|--------------|
|                            |            | \$                      | \$           |                            |           | \$                      | \$           |
| <b>Canada—</b>             |            |                         |              | <b>Nova Scotia—</b>        |           |                         |              |
| Hens and chickens.....1933 | 54,943,400 | 0.53                    | 28,856,000   | Hens and chickens.....1933 | 1,172,700 | 0.59                    | 692,000      |
| 1934                       | 55,429,500 | 0.55                    | 30,529,000   | 1934                       | 1,186,200 | 0.58                    | 688,000      |
| Turkeys.....1933           | 2,580,200  | 1.18                    | 3,049,000    | Turkeys.....1933           | 9,000     | 1.88                    | 17,000       |
| 1934                       | 2,643,900  | 1.26                    | 3,323,000    | 1934                       | 12,600    | 1.94                    | 24,000       |
| Geese.....1933             | 962,900    | 1.06                    | 1,023,000    | Geese.....1933             | 13,700    | 1.65                    | 21,000       |
| 1934                       | 943,600    | 1.09                    | 1,032,000    | 1934                       | 13,900    | 1.50                    | 21,000       |
| Ducks.....1933             | 837,900    | 0.63                    | 528,000      | Ducks.....1933             | 9,100     | 0.84                    | 8,000        |
| 1934                       | 781,700    | 0.66                    | 514,000      | 1934                       | 7,700     | 0.85                    | 7,000        |
| Totals, poultry 1933       | 59,324,400 | -                       | 33,456,000   | Totals, poultry 1933       | 1,204,500 | -                       | 738,000      |
| 1934                       | 59,798,700 | -                       | 35,398,000   | 1934                       | 1,220,400 | -                       | 740,000      |
| <b>P. E. Island—</b>       |            |                         |              | <b>New Brunswick—</b>      |           |                         |              |
| Hens and chickens.....1933 | 814,000    | 0.67                    | 545,000      | Hens and chickens.....1933 | 1,292,800 | 0.63                    | 814,000      |
| 1934                       | 753,000    | 0.64                    | 482,000      | 1934                       | 1,235,200 | 0.70                    | 865,000      |
| Turkeys.....1933           | 9,400      | 1.81                    | 17,000       | Turkeys.....1933           | 23,500    | 2.15                    | 51,000       |
| 1934                       | 10,900     | 1.58                    | 17,000       | 1934                       | 24,500    | 2.11                    | 52,000       |
| Geese.....1933             | 30,500     | 1.12                    | 34,000       | Geese.....1933             | 12,200    | 1.49                    | 18,000       |
| 1934                       | 27,600     | 1.11                    | 31,000       | 1934                       | 15,600    | 1.52                    | 24,000       |
| Ducks.....1933             | 18,100     | 0.70                    | 13,000       | Ducks.....1933             | 12,500    | 0.89                    | 11,000       |
| 1934                       | 16,200     | 0.67                    | 11,000       | 1934                       | 9,700     | 0.89                    | 9,000        |
| Totals, poultry 1933       | 872,000    | -                       | 609,000      | Totals, poultry 1933       | 1,841,000 | -                       | 894,000      |
| 1934                       | 807,700    | -                       | 541,000      | 1934                       | 1,285,000 | -                       | 950,000      |

**17.—Estimated Numbers and Values of Farm Poultry in Canada, 1933 and 1934**  
—concluded.

| Province and Item.     | No.             | Average Value per Head. | Total Value. | Province and Item.       | No.             | Average Value per Head. | Total Value. |
|------------------------|-----------------|-------------------------|--------------|--------------------------|-----------------|-------------------------|--------------|
|                        |                 | \$                      | \$           |                          |                 | \$                      | \$           |
| <b>Quebec—</b>         |                 |                         |              | <b>Saskatchewan—</b>     |                 |                         |              |
| Hens and chickens..... | 1933 6,750,000  | 0.69                    | 4,658,000    | Hens and chickens.....   | 1933 9,305,000  | 0.35                    | 3,257,000    |
|                        | 1934 6,750,600  | 0.74                    | 4,995,000    |                          | 1934 9,312,900  | 0.37                    | 3,446,000    |
| Turkeys.....           | 1933 132,900    | 1.75                    | 233,000      | Turkeys.....             | 1933 791,300    | 0.94                    | 744,000      |
|                        | 1934 126,000    | 1.92                    | 242,000      |                          | 1934 868,600    | 1.02                    | 886,000      |
| Geese.....             | 1933 80,000     | 1.20                    | 96,000       | Geese.....               | 1933 137,300    | 0.73                    | 100,000      |
|                        | 1934 69,900     | 1.29                    | 90,000       |                          | 1934 144,800    | 0.77                    | 111,000      |
| Ducks.....             | 1933 87,500     | 0.76                    | 67,000       | Ducks.....               | 1933 114,300    | 0.46                    | 53,000       |
|                        | 1934 82,100     | 0.82                    | 67,000       |                          | 1934 108,000    | 0.47                    | 51,000       |
| Totals, poultry        | 1933 7,050,400  | —                       | 5,054,000    | Totals, poultry          | 1933 10,347,900 | —                       | 4,154,000    |
|                        | 1934 7,028,600  | —                       | 5,394,000    |                          | 1934 10,434,300 | —                       | 4,494,000    |
| <b>Ontario—</b>        |                 |                         |              | <b>Alberta—</b>          |                 |                         |              |
| Hens and chickens..... | 1933 21,729,400 | 0.60                    | 13,038,000   | Hens and chickens.....   | 1933 6,816,300  | 0.35                    | 2,386,000    |
|                        | 1934 21,567,000 | 0.62                    | 13,372,000   |                          | 1934 6,992,000  | 0.39                    | 2,727,000    |
| Turkeys.....           | 1933 416,300    | 1.82                    | 758,000      | Turkeys.....             | 1933 586,100    | 0.97                    | 569,000      |
|                        | 1934 418,900    | 1.82                    | 762,000      |                          | 1934 610,300    | 1.08                    | 659,000      |
| Geese.....             | 1933 468,400    | 1.24                    | 581,000      | Geese.....               | 1933 102,100    | 0.75                    | 77,000       |
|                        | 1934 455,400    | 1.27                    | 578,000      |                          | 1934 104,700    | 0.78                    | 82,000       |
| Ducks.....             | 1933 377,300    | 0.69                    | 260,000      | Ducks.....               | 1933 104,700    | 0.46                    | 48,000       |
|                        | 1934 361,200    | 0.72                    | 260,000      |                          | 1934 96,600     | 0.47                    | 45,000       |
| Totals, poultry        | 1933 22,991,400 | —                       | 14,637,000   | Totals, poultry          | 1933 7,609,200  | —                       | 3,080,000    |
|                        | 1934 22,802,500 | —                       | 14,972,000   |                          | 1934 7,803,600  | —                       | 3,513,000    |
| <b>Manitoba—</b>       |                 |                         |              | <b>British Columbia—</b> |                 |                         |              |
| Hens and chickens..... | 1933 4,061,400  | 0.41                    | 1,665,000    | Hens and chickens.....   | 1933 3,001,800  | 0.60                    | 1,801,000    |
|                        | 1934 4,096,300  | 0.43                    | 1,761,000    |                          | 1934 3,536,300  | 0.62                    | 2,193,000    |
| Turkeys.....           | 1933 570,800    | 1.02                    | 582,000      | Turkeys.....             | 1933 40,900     | 1.90                    | 78,000       |
|                        | 1934 535,000    | 1.13                    | 605,000      |                          | 1934 37,100     | 2.06                    | 76,000       |
| Geese.....             | 1933 108,800    | 0.75                    | 82,000       | Geese.....               | 1933 9,900      | 1.40                    | 14,000       |
|                        | 1934 102,600    | 0.80                    | 82,000       |                          | 1934 9,100      | 1.44                    | 13,000       |
| Ducks.....             | 1933 71,400     | 0.47                    | 34,000       | Ducks.....               | 1933 43,000     | 0.80                    | 34,000       |
|                        | 1934 61,000     | 0.50                    | 31,000       |                          | 1934 39,200     | 0.83                    | 33,000       |
| Totals, poultry        | 1933 4,812,400  | —                       | 2,363,000    | Totals, poultry          | 1933 3,095,600  | —                       | 1,927,000    |
|                        | 1934 4,794,900  | —                       | 2,479,000    |                          | 1934 3,621,700  | —                       | 2,315,000    |

**Production and Value of Wool.**—The production of wool in Canada is placed at 19,544,000 lb. from 3,423,951 sheep and lambs in 1934 as compared with 19,268,000 lb. from 3,388,552 sheep and lambs in 1933. Table 18 gives the total estimated production and value of wool for the years 1915 to 1934.

**18.—Estimated Quantities and Values of Canadian Wool Clip, 1915-34.**

NOTE.—Sheep on Indian reserves included.

| Year.     | Sheep.    | Production of Wool. | Average Price per lb. of Wool. | Value.     |
|-----------|-----------|---------------------|--------------------------------|------------|
|           | No.       | lb.                 | cents.                         | \$         |
| 1915..... | 2,038,662 | 12,000,000          | 28                             | 3,360,000  |
| 1916..... | 2,022,941 | 12,000,000          | 37                             | 4,440,000  |
| 1917..... | 2,369,358 | 12,000,000          | 59                             | 7,000,000  |
| 1918..... | 3,052,748 | 20,000,000          | 62                             | 12,000,000 |
| 1919..... | 3,421,958 | 20,000,000          | 60                             | 12,000,000 |
| 1920..... | 3,720,783 | 24,000,000          | 22                             | 5,280,000  |
| 1921..... | 3,675,860 | 21,251,000          | 14                             | 2,975,000  |
| 1922..... | 3,262,626 | 18,523,392          | 17.5                           | 3,149,000  |
| 1923..... | 2,755,273 | 15,539,416          | 20                             | 3,160,000  |
| 1924..... | 2,686,367 | 15,111,719          | 25                             | 3,774,000  |
| 1925..... | 2,757,199 | 15,553,045          | 25                             | 3,961,000  |
| 1926..... | 3,144,343 | 17,959,896          | 23                             | 4,131,000  |
| 1927..... | 3,265,727 | 18,672,766          | 22                             | 4,108,000  |
| 1928..... | 3,418,992 | 19,611,430          | 26                             | 5,099,000  |
| 1929..... | 3,638,972 | 20,283,000          | 22                             | 4,470,000  |
| 1930..... | 3,698,800 | 21,016,000          | 11                             | 2,311,000  |
| 1931..... | 3,608,000 | 20,365,000          | 8                              | 1,644,000  |
| 1932..... | 3,647,207 | 20,518,000          | 8                              | 1,093,800  |
| 1933..... | 3,388,552 | 19,268,000          | 10                             | 2,005,000  |
| 1934..... | 3,423,951 | 19,544,000          | 14                             | 2,645,000  |

#### Subsection 4.—Dairying Statistics.

As the Agricultural Statistics Branch of the Dominion Bureau of Statistics was engaged in a revision of the dairying statistics of Canada at the time that this chapter of the Year Book was going to press, it was decided to transfer this subsection to Appendix II. (For page reference see Index.)

#### Subsection 5.—Fur Farming.\*

**Origin of Fur-Farming Industry.**—A short account of the origin of the fur-farming industry in Canada was given on p. 249 of the 1929 edition of the Year Book. A fuller description of the rise of the industry in Prince Edward Island, its original home, was given in the Census and Statistics Monthly for May, 1914, at p. 110, while a still more detailed account of the earlier history of the industry was given in a publication of the Commission of Conservation, Ottawa, entitled "Fur Farming in Canada", by J. Walter Jones, B.A., B.S.A., the second edition of which was published in 1914.

**Fur Farms of Canada.**—The term "fur farm" includes farms devoted entirely to the raising of fur-bearing animals (principally silver foxes), together with parts of farms where the raising of fur-bearing animals is carried on as a distinct branch of the operations. Such farms increased in numbers from 429 in 1919 to 6,392 in 1933, or, if muskrat and beaver farms are included, to 6,473, and the industry is still growing in number of farms and varieties of fur-bearing animals on these farms, although its revenue has suffered from the effects of the low price levels of the past three years for live animals and pelts of all kinds. Although the fox has proved the most suited to domestication, other kinds of fur-bearing wild animals are being raised in captivity—mink, raccoon, skunk, marten, fisher and fitch. Mink farms are now the most numerous of the miscellaneous class, raccoon farms coming second. A few of the fox farms also raise miscellaneous fur-bearing animals in addition to the foxes.

**Capital Investment.**—The earliest Dominion-wide statistics of fur farms were collected for the year 1919, and since then annual statistics have been obtained. Statistics showing the numbers and values of fur-bearing animals on fur farms are given in Tables 19 and 20. The capital investment in lands and buildings in 1933 was \$6,265,201, making a grand total investment of \$13,774,768 in the industry in that year.

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\* Revised by Miss F. A. Brown, Chief, Fur Statistics Branch, Dominion Bureau of Statistics. A list of publications of this Branch will be found in Chapter XXIX. For further particulars regarding fur farming the reader is referred to the Report on Fur Farms, 1933, which may be obtained from the Dominion Statistician, Ottawa.

**19.—Numbers of Fur-Bearing Animals on Fur Farms in Canada at Dec. 31, 1925-33.**

| Kind of Animal.            | 1925.         | 1926.         | 1927.          | 1928.          | 1929.          | 1930.          | 1931.          | 1932.          | 1933.          |
|----------------------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Silver fox.....            | 42,125        | 47,657        | 57,961         | 72,631         | 97,190         | 105,894        | 95,734         | 92,703         | 103,842        |
| Patch or cross fox.....    | 1,736         | 1,742         | 1,747          | 1,853          | 2,563          | 3,335          | 3,369          | 2,978          | 2,574          |
| Red fox.....               | 1,196         | 1,163         | 1,198          | 1,489          | 2,348          | 3,018          | 2,879          | 2,526          | 2,244          |
| Blue fox.....              | 735           | 1,050         | 1,713          | 1,331          | 1,576          | 1,755          | 1,219          | 858            | 689            |
| Silver-blue fox.....       | —             | —             | —              | 6              | —              | —              | 12             | 5              | 2              |
| White fox.....             | —             | —             | —              | 1              | 4              | 64             | 65             | 39             | 11             |
| Mink.....                  | 982           | 1,650         | 2,615          | 5,028          | 10,436         | 20,726         | 21,062         | 17,212         | 18,640         |
| Raccoon.....               | 445           | 689           | 1,238          | 1,852          | 2,870          | 3,395          | 3,600          | 3,057          | 2,522          |
| Skunk.....                 | 129           | 88            | 111            | 99             | 78             | 20             | 54             | 20             | 12             |
| Marten.....                | 35            | 69            | 112            | 152            | 187            | 228            | 272            | 207            | 202            |
| Fisher.....                | 15            | 46            | 87             | 136            | 184            | 195            | 244            | 200            | 183            |
| Opossum.....               | —             | —             | —              | —              | —              | 3              | —              | —              | —              |
| Coyote.....                | 59            | 4             | 29             | 30             | 73             | 135            | 72             | 44             | 34             |
| Badger.....                | 3             | —             | —              | 113            | 726            | 559            | 307            | 119            | 63             |
| Lynx.....                  | 3             | 3             | 2              | 9              | 10             | 13             | 16             | 10             | 1              |
| Otter.....                 | —             | —             | —              | 1              | 2              | —              | —              | —              | —              |
| Fitch.....                 | —             | —             | —              | —              | 25             | 150            | 826            | 1,587          | 1,857          |
| Ferret.....                | —             | —             | —              | —              | 5              | 1              | —              | 3              | 4              |
| Weasel.....                | —             | —             | —              | —              | 11             | 6              | 11             | 17             | 8              |
| Nutria.....                | —             | —             | —              | —              | —              | 10             | 27             | 56             | 64             |
| Siberian hare.....         | 35            | 39            | 16             | —              | —              | —              | —              | —              | —              |
| Chinchilla rabbit.....     | 1,215         | 1,843         | 3,085          | 3,464          | 1,438          | 1,206          | 239            | 80             | 79             |
| Rabbit, n.e.s.....         | 967           | 252           | 1,129          | 1,733          | 428            | 475            | 207            | 285            | 291            |
| Karakul sheep.....         | 1,209         | 177           | 1,082          | 94             | 96             | 193            | 140            | 108            | 107            |
| Muskrat <sup>1</sup> ..... | 28,105        | 35,838        | 55,390         | 168,861        | 711,111        | 425,525        | 119,285        | 132,973        | 65,324         |
| Beaver <sup>1</sup> .....  | 155           | 360           | 505            | 799            | 698            | 1,112          | 806            | 1,118          | 1,020          |
| <b>Totals.....</b>         | <b>79,149</b> | <b>92,670</b> | <b>128,020</b> | <b>259,682</b> | <b>832,059</b> | <b>568,018</b> | <b>250,446</b> | <b>256,205</b> | <b>199,782</b> |

<sup>1</sup> Based on estimates furnished by the operators of the farms.**20.—Values of Fur-Bearing Animals on Fur Farms in Canada at Dec. 31, 1925-33.**

| Kind of Animal.            | 1925.             | 1926.             | 1927.             | 1928.             | 1929.             | 1930.             | 1931.            | 1932.            | 1933.            |
|----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|
|                            | \$                | \$                | \$                | \$                | \$                | \$                | \$               | \$               | \$               |
| Silver fox.....            | 9,536,097         | 10,652,304        | 12,824,787        | 14,922,378        | 18,047,124        | 13,386,171        | 7,259,148        | 6,027,501        | 6,849,725        |
| Patch or cross fox.....    | 111,293           | 110,517           | 122,400           | 167,222           | 233,220           | 270,257           | 150,597          | 112,548          | 99,570           |
| Red fox.....               | 23,305            | 21,709            | 28,460            | 46,770            | 91,575            | 77,872            | 45,988           | 33,199           | 27,405           |
| Blue fox.....              | 126,205           | 149,990           | 221,780           | 172,682           | 196,750           | 174,193           | 73,237           | 34,375           | 25,243           |
| Silver-blue fox.....       | —                 | —                 | —                 | 1,520             | —                 | —                 | 650              | 200              | 100              |
| White fox.....             | —                 | —                 | —                 | 150               | 400               | 1,700             | 2,410            | 1,310            | 920              |
| Mink.....                  | 37,161            | 79,145            | 148,005           | 328,998           | 765,333           | 1,286,737         | 642,045          | 328,534          | 349,411          |
| Raccoon.....               | 6,487             | 16,448            | 41,093            | 59,672            | 80,801            | 72,242            | 48,640           | 32,033           | 22,996           |
| Skunk.....                 | 877               | 778               | 1,100             | 603               | 341               | 73                | 187              | 126              | 12               |
| Marten.....                | 2,805             | 4,870             | 10,510            | 14,310            | 17,340            | 20,660            | 17,550           | 10,739           | 10,697           |
| Fisher.....                | 2,035             | 6,600             | 12,610            | 24,325            | 28,585            | 29,810            | 29,170           | 16,995           | 17,190           |
| Opossum.....               | —                 | —                 | —                 | —                 | —                 | 25                | —                | —                | —                |
| Coyote.....                | 715               | 55                | 490               | 480               | 850               | 1,592             | 836              | 302              | 356              |
| Badger.....                | 60                | —                 | —                 | 4,445             | 23,350            | 18,812            | 7,125            | 2,601            | 1,357            |
| Lynx.....                  | 150               | 150               | 100               | 880               | 825               | 1,600             | 660              | 320              | 20               |
| Otter.....                 | —                 | —                 | —                 | 70                | 100               | —                 | —                | —                | —                |
| Fitch.....                 | —                 | —                 | —                 | —                 | 580               | 5,760             | 13,478           | 16,496           | 11,729           |
| Ferret.....                | —                 | —                 | —                 | —                 | 25                | 5                 | —                | 15               | 12               |
| Weasel.....                | —                 | —                 | —                 | —                 | 50                | 25                | 28               | 29               | 8                |
| Nutria.....                | —                 | —                 | —                 | —                 | —                 | 700               | 1,880            | 2,245            | 2,460            |
| Siberian hare.....         | 220               | 188               | 80                | —                 | —                 | —                 | —                | —                | —                |
| Chinchilla rabbit.....     | 12,865            | 15,303            | 23,648            | 27,711            | 8,627             | 2,089             | 342              | 194              | 65               |
| Rabbit, n.e.s.....         | 5,334             | 1,944             | 9,280             | 12,575            | 2,428             | 1,623             | 685              | 1,454            | 484              |
| Karakul sheep.....         | 32,410            | 8,809             | 21,539            | 5,348             | 4,300             | 5,334             | 1,650            | 1,255            | 1,060            |
| Muskrat <sup>1</sup> ..... | 140,525           | 73,308            | 127,921           | 562,749           | 1,725,391         | 755,800           | 152,889          | 93,473           | 56,088           |
| Beaver <sup>1</sup> .....  | 4,650             | 11,720            | 24,455            | 48,475            | 75,070            | 84,667            | 48,042           | 38,818           | 32,659           |
| <b>Totals.....</b>         | <b>10,043,194</b> | <b>11,153,838</b> | <b>13,618,258</b> | <b>16,401,453</b> | <b>21,303,035</b> | <b>16,197,747</b> | <b>8,497,237</b> | <b>6,754,762</b> | <b>7,509,567</b> |

<sup>1</sup> Based on estimates furnished by the operators of the farms.



**Annual Revenue.**—The annual revenue of the fur farmer arises from two sources, the sale of animals and the sale of pelts. Table 21 shows the sales of animals by kinds in the years 1925 to 1933 and Table 22 the sales of pelts. During the four latest years the sales of pelts have exceeded the sales of live animals, while in former years the reverse was the case.

**21.—Values of Fur-Bearing Animals Sold from Fur Farms in Canada, 1925-33.**

| Kind of Animal.        | 1925.            | 1926.            | 1927.            | 1928.            | 1929.            | 1930.            | 1931.          | 1932.          | 1933.          |
|------------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------|----------------|----------------|
|                        | \$               | \$               | \$               | \$               | \$               | \$               | \$             | \$             | \$             |
| Silver fox.....        | 2,755,668        | 2,189,330        | 2,501,816        | 3,552,874        | 3,856,158        | 1,405,202        | 358,394        | 193,043        | 301,612        |
| Patch or cross fox...  | 28,687           | 19,803           | 23,350           | 38,675           | 66,554           | 29,296           | 8,626          | 4,467          | 5,313          |
| Red fox.....           | 2,828            | 2,663            | 5,079            | 12,159           | 22,178           | 10,900           | 5,788          | 2,657          | 2,744          |
| Blue fox.....          | 65,620           | 20,225           | 28,115           | 28,530           | 45,035           | 24,895           | 8,270          | 1,355          | 502            |
| Silver-blue fox.....   | —                | —                | —                | 550              | —                | —                | —              | —              | —              |
| White fox.....         | —                | —                | —                | —                | —                | 161              | —              | 210            | —              |
| Mink.....              | 15,654           | 25,692           | 58,992           | 140,889          | 407,570          | 301,754          | 85,728         | 28,581         | 34,802         |
| Raccoon.....           | 3,683            | 4,955            | 7,626            | 18,031           | 17,996           | 13,800           | 4,825          | 2,163          | 2,201          |
| Skunk.....             | 242              | 188              | 190              | —                | 80               | —                | —              | —              | —              |
| Marten.....            | 400              | 230              | 700              | 350              | 1,270            | 2,075            | 905            | 570            | 100            |
| Fisher.....            | 500              | 825              | 635              | 2,375            | 4,825            | 4,399            | 7,495          | 2,090          | 1,200          |
| Coyote.....            | 26               | —                | 6                | —                | 20               | —                | 124            | —              | —              |
| Badger.....            | —                | —                | —                | 215              | 4,984            | 2,957            | 485            | 145            | 6              |
| Lynx.....              | —                | —                | —                | —                | 75               | —                | —              | 20             | —              |
| Fitch.....             | —                | —                | —                | —                | 100              | 1,720            | 6,724          | 5,565          | 4,025          |
| Ferret.....            | —                | —                | —                | —                | —                | —                | —              | —              | —              |
| Nutria.....            | —                | —                | —                | —                | —                | —                | 175            | 515            | 675            |
| Siberian hare.....     | 252              | 173              | 58               | —                | —                | —                | —              | —              | —              |
| Chinchilla rabbit..... | 16,384           | 14,412           | 11,860           | 18,355           | 2,469            | 170              | 58             | 438            | —              |
| Rabbit, n.e.s.....     | 2,574            | 133              | 2,689            | 7,861            | 1,071            | 677              | 172            | 642            | 439            |
| Karakul sheep.....     | 4,752            | 16,000           | 4,215            | 150              | 200              | 1,500            | 70             | 275            | 300            |
| Muskrat.....           | 2,024            | 3,773            | 6,719            | 16,206           | 44,308           | 28,394           | 3,881          | 457            | 83             |
| Beaver.....            | —                | —                | 100              | 200              | 60               | 625              | 380            | —              | 460            |
| <b>Totals.....</b>     | <b>2,899,294</b> | <b>2,298,402</b> | <b>2,652,150</b> | <b>3,837,420</b> | <b>1,471,953</b> | <b>1,828,545</b> | <b>492,000</b> | <b>243,193</b> | <b>354,462</b> |

**22.—Values of Pelts Sold from Fur Farms in Canada, 1925-33.**

| Kind of Animal.        | 1925.          | 1926.            | 1927.            | 1928.            | 1929.            | 1930.            | 1931.            | 1932.            | 1933.            |
|------------------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                        | \$             | \$               | \$               | \$               | \$               | \$               | \$               | \$               | \$               |
| Silver fox.....        | 736,289        | 1,174,700        | 2,057,170        | 2,278,611        | 2,195,253        | 2,921,885        | 2,835,470        | 2,821,593        | 3,441,023        |
| Patch or cross fox...  | 27,880         | 34,177           | 49,125           | 54,307           | 43,122           | 75,676           | 84,993           | 93,018           | 95,522           |
| Red fox.....           | 14,585         | 13,055           | 21,257           | 21,774           | 18,585           | 21,549           | 20,445           | 21,924           | 23,652           |
| Blue fox.....          | —              | 60               | 8,053            | 13,516           | 19,144           | 25,318           | 12,758           | 9,032            | 9,325            |
| White fox.....         | 40             | —                | —                | —                | —                | 25               | 792              | 135              | 65               |
| Mink.....              | 1,888          | 2,044            | 4,546            | 8,916            | 12,471           | 34,538           | 99,033           | 87,604           | 117,322          |
| Raccoon.....           | 242            | 295              | 1,193            | 1,502            | 3,027            | 2,618            | 4,445            | 5,096            | 14,657           |
| Skunk.....             | 65             | 252              | 30               | 23               | 48               | 11               | 4                | 10               | —                |
| Marten.....            | —              | —                | 173              | 30               | —                | 100              | 79               | 313              | 262              |
| Fisher.....            | 72             | 85               | 60               | 112              | 320              | 405              | 145              | 1,120            | 1,576            |
| Coyote.....            | 30             | 60               | 60               | —                | 340              | 691              | 718              | 395              | 610              |
| Badger.....            | —              | —                | —                | 28               | 1,646            | 3,925            | 3,101            | 1,398            | 629              |
| Lynx.....              | —              | —                | —                | 45               | —                | 100              | —                | —                | 66               |
| Fitch.....             | —              | —                | —                | —                | —                | —                | 341              | 568              | 2,616            |
| Weasel.....            | —              | —                | —                | —                | —                | 7                | —                | 34               | 30               |
| Siberian hare.....     | 97             | 7                | —                | —                | —                | —                | —                | —                | —                |
| Chinchilla rabbit..... | —              | 178              | 1,701            | 526              | 806              | 45               | 65               | 8                | —                |
| Rabbit, n.e.s.....     | 195            | 28               | 182              | 246              | 263              | 22               | —                | —                | 29               |
| Karakul sheep.....     | —              | —                | 800              | —                | —                | —                | —                | 246              | 139              |
| Muskrat.....           | 1,930          | 896              | 8,584            | 9,365            | 9,335            | 9,205            | 8,945            | 3,723            | 4,710            |
| Beaver.....            | —              | 215              | 100              | 25               | 550              | 150              | 126              | 410              | 213              |
| <b>Totals.....</b>     | <b>783,313</b> | <b>1,226,052</b> | <b>2,163,014</b> | <b>2,389,026</b> | <b>2,304,910</b> | <b>3,096,270</b> | <b>3,071,460</b> | <b>3,046,627</b> | <b>3,712,443</b> |

**The Provincial Distribution of Fur Farming.**—The statistics of Table 23, showing the capital investment in the industry by provinces, indicate that Prince Edward Island no longer holds its earlier margin of supremacy in the industry. In recent years the larger and more populous provinces of Quebec and Ontario have exceeded Prince Edward Island in the number of fur farms and in the capital invested in fur-bearing animals as well as in land and buildings used for fur farming.

**23.—Numbers of Fur Farms, Values of Land and Buildings and Values of Fur-Bearing Animals, by Provinces, 1931-33.**

| Province.             | Fur Farms.   |              |              | Values of Land and Buildings. |                  |                  | Values of Fur-bearing Animals. |                  |                  |
|-----------------------|--------------|--------------|--------------|-------------------------------|------------------|------------------|--------------------------------|------------------|------------------|
|                       | 1931.        | 1932.        | 1933.        | 1931.                         | 1932.            | 1933.            | 1931.                          | 1932.            | 1933.            |
|                       | No.          | No.          | No.          | \$                            | \$               | \$               | \$                             | \$               | \$               |
| P.E. Island.....      | 648          | 607          | 609          | 983,609                       | 877,857          | 901,201          | 1,038,242                      | 941,162          | 1,052,172        |
| Nova Scotia.....      | 821          | 618          | 659          | 269,587                       | 236,760          | 239,671          | 434,915                        | 361,461          | 408,045          |
| New Brunswick.....    | 753          | 750          | 756          | 451,417                       | 404,237          | 410,484          | 657,774                        | 621,388          | 668,192          |
| Quebec.....           | 2,043        | 2,025        | 2,147        | 1,314,061                     | 1,055,243        | 1,059,734        | 1,839,816                      | 1,409,895        | 1,517,668        |
| Ontario.....          | 1,218        | 1,108        | 1,044        | 1,687,221                     | 1,276,442        | 1,224,942        | 1,874,217                      | 1,398,884        | 1,464,181        |
| Manitoba.....         | 311          | 270          | 280          | 508,585                       | 500,333          | 522,505          | 625,632                        | 508,866          | 649,331          |
| Saskatchewan.....     | 204          | 182          | 200          | 723,311                       | 294,737          | 659,467          | 578,207                        | 349,728          | 441,896          |
| Alberta.....          | 319          | 352          | 448          | 663,098                       | 769,683          | 788,309          | 923,619                        | 802,564          | 965,480          |
| British Columbia..... | 412          | 376          | 323          | 470,922                       | 541,141          | 444,338          | 509,975                        | 354,824          | 336,237          |
| Yukon.....            | 11           | 7            | 7            | 23,300                        | 13,200           | 14,550           | 14,570                         | 5,630            | 8,365            |
| N.W. Territories..... | 1            | 1            | —            | —                             | —                | —                | 270                            | 360              | —                |
| <b>Totals.....</b>    | <b>6,541</b> | <b>6,296</b> | <b>6,473</b> | <b>7,095,111</b>              | <b>5,969,633</b> | <b>6,265,201</b> | <b>8,497,237</b>               | <b>6,754,762</b> | <b>7,509,567</b> |

**Subsection 6.—Horticulture.**

The statistical treatment of horticulture is necessarily confined to commercial fruit growing, vegetable growing and floriculture, although production in private gardens for home use is unquestionably in larger volume than production for sale in the case of vegetables and flowers. Of the three branches of commercial horticulture, fruit growing is the most important.

The native fruits of Canada, with the exception of the blueberry and the cranberry, are not cultivated on a commercial scale. Among the introduced fruits, the apple holds the premier place in Canadian fruit growing, the value of the commercial production of this fruit averaging about 10 million dollars annually for the 5 years 1929-33. An important subsidiary of the grape-growing industry is the manufacture of native wines, which increased from an estimated value of \$560,000 in 1917, the earliest year available, to \$5,541,000 in 1929, with an estimated value of \$2,646,000 in 1933. For a fuller discussion of fruit farming in Canada, the reader is referred to pp. 242-247 of the 1931 edition of the Year Book. Closely associated with fruit farming is the tree nursery industry.

Satisfactory annual statistics are not available at present regarding the commercial production of vegetables, but important information on the subject is obtained through the decennial census and will be found under census statistics.

**Census Statistics of Fruit and Vegetable Production.**—Much of the most valuable statistical information regarding the production of fruit and vegetables in Canada can be obtained only through the medium of the decennial censuses.

*Fruit.*—In the course of each census a record is obtained of the numbers of the different kinds of fruit trees and of grape vines of bearing age or planted out but not yet of bearing age at the date of the census, in addition to the acreage devoted to orchard, vineyard and small fruit. Furthermore, an accurate check is made upon the annual estimates of fruit production by obtaining from each producer a statement of the quantities and values of different kinds of fruit produced. Such information obtained through the census is summarized in Tables 24, 25 and 26. A notable fact shown in Table 24 is that the number of bearing trees of each kind of fruit as well as the total acreage in orchard was less in 1931 than in 1921 or 1911. In fact there has been a progressive decline in every tree fruit except the peach. Furthermore, with the same exception, the number of young trees planted out but

not yet bearing was smaller in each case than at the two former censuses, which appears to indicate a continuation of the decline. In the case of peaches the figures point to the probability of some prospective increase in acreage. In the case of grapes, the Census of 1931 showed a large increase in bearing vines, while the number of young vines not yet bearing indicated the possibility of a further increase of more than 50 p.c. in productive vineyard. The total acreage of vineyard was at a record level. The acreage devoted to small fruits has shown very little expansion over the past 20 years.

**24.—Fruit Trees, of Bearing Age and not of Bearing Age, and Acreages of Fruit in Canada, 1911, 1921 and 1931.**

| Item.                            | Of Bearing Age.   |                   |                   | Not of Bearing Age. |                  |                  |
|----------------------------------|-------------------|-------------------|-------------------|---------------------|------------------|------------------|
|                                  | 1911.             | 1921.             | 1931.             | 1911.               | 1921.            | 1931.            |
|                                  | No.               | No.               | No.               | No.                 | No.              | No.              |
| Apples <sup>1</sup> .....        | 10,617,372        | 9,794,234         | 8,303,866         | 5,599,804           | 2,668,098        | 2,085,010        |
| Peaches.....                     | 839,288           | 1,023,679         | 650,985           | 1,056,359           | 172,542          | 345,080          |
| Pears.....                       | 581,704           | 496,610           | 455,329           | 385,538             | 177,292          | 150,539          |
| Plums.....                       | 1,075,130         | 982,190           | 661,263           | 637,220             | 269,983          | 179,509          |
| Cherries.....                    | 741,992           | 686,608           | 507,075           | 495,082             | 199,979          | 160,487          |
| <b>Totals.....</b>               | <b>13,855,486</b> | <b>12,983,321</b> | <b>10,578,518</b> | <b>8,174,003</b>    | <b>3,487,894</b> | <b>2,920,625</b> |
| Grape vines.....                 | <sup>2</sup>      | 2,956,784         | 4,699,581         | <sup>2</sup>        | 201,383          | 2,599,253        |
| Acreages of Fruit <sup>3</sup> — | acres.            | acres.            | acres.            |                     |                  |                  |
| Orchard.....                     | 403,596           | 297,053           | 268,925           | —                   | —                | —                |
| Vineyard.....                    | 9,836             | 7,090             | 16,159            | —                   | —                | —                |
| Small fruits.....                | 17,495            | 17,741            | 18,822            | —                   | —                | —                |

<sup>1</sup> Includes crab apple trees. <sup>2</sup> Not given. <sup>3</sup> Including acreages not of bearing age.

Table 25 shows the comparatively small number of specialized fruit farms in Canada in 1931. Of 728,244 occupied farms only 7,977 or 1.1 p.c. reported more than 300 trees. Only those farms enumerated in the last two columns, that is, with over 300 trees, can really be considered as specialized fruit farms, since 300 trees represent 7 to 10 acres of apples or 3 to 4 acres of other tree fruits. If the analysis could be carried further to show the total of trees on farms in each group it is probable that a large proportion of the total trees would be found to be on the farms with over 300 trees per farm. It may be observed that by far the largest numbers of specialized fruit farms are in the groups containing from 10 to 200 acres.

**25.—Numbers of Farms in Canada Reporting Orchards, According to Size of Farm and Number of Trees Reported, 1931.**

| Size of farm.      | All Farms Reporting. | Farms Reporting— |              |              |              |              |                |                |                |                     |
|--------------------|----------------------|------------------|--------------|--------------|--------------|--------------|----------------|----------------|----------------|---------------------|
|                    |                      | 1-9 Trees.       | 10-24 Trees. | 25-49 Trees. | 50-74 Trees. | 75-99 Trees. | 100-149 Trees. | 150-299 Trees. | 300-499 Trees. | 500 Trees and Over. |
|                    |                      | No.              | No.          | No.          | No.          | No.          | No.            | No.            | No.            | No.                 |
| All farms.....     | 222,712              | 52,691           | 80,119       | 47,628       | 16,295       | 5,463        | 6,565          | 5,974          | 3,238          | 4,739               |
| 1-4 acres.....     | 8,561                | 3,257            | 2,982        | 1,221        | 432          | 178          | 238            | 193            | 52             | 8                   |
| 5-10 ".....        | 10,801               | 2,880            | 3,333        | 1,732        | 696          | 338          | 407            | 612            | 436            | 367                 |
| 11-50 ".....       | 34,649               | 9,301            | 11,883       | 5,956        | 1,935        | 751          | 994            | 1,233          | 882            | 1,714               |
| 51-100 ".....      | 73,724               | 17,065           | 28,273       | 16,716       | 5,091        | 1,555        | 1,833          | 1,381          | 743            | 1,067               |
| 101-200 ".....     | 69,425               | 14,777           | 24,991       | 16,379       | 5,079        | 1,901        | 2,103          | 1,737          | 776            | 992                 |
| 201-299 ".....     | 13,673               | 2,786            | 4,691        | 3,156        | 1,299        | 401          | 519            | 421            | 167            | 253                 |
| 300-479 ".....     | 9,180                | 1,995            | 3,130        | 1,965        | 822          | 256          | 345            | 292            | 140            | 235                 |
| 480-639 ".....     | 1,542                | 373              | 481          | 306          | 142          | 48           | 69             | 60             | 21             | 42                  |
| 640 acres and over | 1,157                | 257              | 375          | 197          | 99           | 35           | 57             | 55             | 21             | 61                  |

Table 26 shows that, in spite of the decline in bearing trees, when allowance is made for annual variations in crops, production has been fairly well maintained, due, no doubt, to the trend for fruit production to shift from an incidental department of the general farm to the specialized commercial fruit farm, where improved practices are followed in the selection of productive varieties and in general methods of culture. In small fruits there was a notable increase recorded in 1930 in the production of loganberries, while the production of currants and gooseberries has declined to little more than a third of that of 1910.

**26.—Quantities and Values of the Production of Tree Fruits and Small Fruits in Canada, 1910, 1920 and 1930.**

| Kind of Fruit.                  | Quantities.             |            |            | Values.    |            |             |
|---------------------------------|-------------------------|------------|------------|------------|------------|-------------|
|                                 | 1910.                   | 1920.      | 1930.      | 1910.      | 1920.      | 1930.       |
|                                 |                         |            |            | \$         | \$         | \$          |
| Apples <sup>1</sup> ..... bush. | 10,618,666              | 17,485,895 | 15,106,012 | 3          | 14,409,367 | 10,138,780  |
| Peaches..... "                  | 646,826                 | 1,077,195  | 733,074    | 3          | 1,254,510  | 966,538     |
| Pears..... "                    | 504,171                 | 520,330    | 557,760    | 3          | 610,797    | 548,761     |
| Plums..... "                    | 508,994                 | 809,363    | 500,158    | 3          | 703,751    | 485,480     |
| Cherries..... "                 | 238,974                 | 485,128    | 311,500    | 3          | 998,113    | 938,235     |
| Totals.....                     | —                       | —          | —          | 9,728,533  | 17,976,538 | 13,077,794  |
| Grapes..... lb.                 | 32,898,438              | 33,269,412 | 41,479,620 | 3          | 2,283,037  | 1,144,529 * |
| Strawberries..... qt.           | 18,686,662 <sup>2</sup> | 15,658,346 | 16,136,018 | 3          | 2,821,945  | 2,097,713   |
| Raspberries..... "              | 3                       | 8,360,518  | 5,610,403  | 3          | 1,586,633  | 958,993     |
| Loganberries..... "             | 3                       | 205,740    | 1,343,731  | 3          | 50,403     | 138,020     |
| Blackberries..... "             | 3                       | 495,845    | 619,064    | 3          | 115,938    | 78,610      |
| Currants..... "                 | 3,830,609               | 1,390,120  | 932,245    | 3          | 192,292    | 126,973     |
| Gooseberries..... "             | 9,000,208 <sup>2</sup>  | 593,714    | 460,590    | 3          | 71,220     | 50,016      |
| Other small fruits..... "       |                         | 141,822    | 123,316    | 3          | 17,368     | 14,068      |
| Totals.....                     | —                       | —          | —          | 3,052,592  | 7,138,836  | 4,608,922   |
| Grand Totals.....               | —                       | —          | —          | 12,781,125 | 25,115,374 | 17,686,716  |

<sup>1</sup> Includes crab apples. <sup>2</sup> Quantities in boxes in 1910. <sup>3</sup> Not given separately in 1910.

*Vegetables.*—In view of the fact that so large a proportion of vegetables are grown either in gardens for home use or else are sold directly from producer to consumer on public markets in urban centres, an accurate record of production can only be obtained through the individual enumeration at the decennial census. The total value of vegetables grown on farms in 1930 was \$28,071,354, of which total \$15,374,684 represented the value of vegetables grown on farms for home use and \$12,696,670 vegetables grown on farms for sale. Comparable figures for 1920, when the general price level was very much higher, were: total value \$20,073,782; for home use \$13,907,856; and for sale \$6,165,926. The figures for either census do not include vegetables grown elsewhere than on farms, *i.e.*, in the private lots and gardens of people other than farmers and market gardeners. The statistics of Table 27 deal only with vegetables grown for sale by farmers and market gardeners and are exclusive of vegetables grown for home use which in both censuses had a larger value and are also exclusive of vegetables grown elsewhere than on farms. The figures indicate a large expansion in the production of vegetables for sale during the decade. The expansion has been particularly marked in those vegetables, such as tomatoes, sweet corn, green beans, green peas and asparagus, which form the chief crops for the vegetable-canning industry.



**27.—Areas, Quantities and Values of Vegetables Produced for Sale on Farms in Canada, 1920 and 1930.**

| Kind of Vegetable.             | Areas.        |                | Quantities.         |                       | Values.          |                   |
|--------------------------------|---------------|----------------|---------------------|-----------------------|------------------|-------------------|
|                                | 1920.         | 1930.          | 1920.               | 1930.                 | 1920.            | 1930.             |
|                                | acres.        | acres.         | bush.               | bush.                 | \$               | \$                |
| Beets.....                     | 668           | 1,392          | 143,599             | 410,206               | 127,400          | 257,713           |
| Cabbages.....                  | 3,234         | 6,675          | 814,701             | 1,759,149             | 706,457          | 1,005,874         |
| Cantaloupes and melons.....    | 562           | 1,273          | 94,020              | 220,375               | 138,507          | 253,184           |
| Carrots.....                   | 938           | 3,016          | 219,973             | 933,413               | 173,003          | 548,890           |
| Cauliflowers.....              | 224           | 1,766          | 47,462              | 462,605               | 67,237           | 428,687           |
| Cucumbers.....                 | 1,520         | 3,803          | 264,490             | 800,403               | 311,916          | 622,368           |
| Green beans.....               | 752           | 3,407          | 90,900              | 473,541               | 117,189          | 424,573           |
| Green peas.....                | 1,689         | 15,120         | 155,039             | 1,443,808             | 220,651          | 1,054,115         |
| Onions.....                    | 3,595         | 5,055          | 1,051,201           | 1,432,283             | 946,176          | 1,040,630         |
| Sweet corn.....                | 7,329         | 28,135         | 753,288             | 3,682,537             | 558,077          | 1,334,706         |
| Tomatoes.....                  | 10,624        | 27,978         | 2,597,256           | 7,202,396             | 1,953,454        | 3,899,200         |
| Asparagus.....                 | 194           | 1,379          | bunches.<br>415,585 | bunches.<br>3,279,554 | 65,214           | 305,895           |
| Celery.....                    | 652           | 1,043          | 5,041,687           | 11,067,724            | 427,036          | 523,737           |
| Lettuce.....                   | 404           | 1,100          | 2,872,608           | 11,659,624            | 148,110          | 398,650           |
| <b>Totals<sup>1</sup>.....</b> | <b>33,238</b> | <b>103,833</b> | <b>—</b>            | <b>—</b>              | <b>6,165,926</b> | <b>12,696,670</b> |

<sup>1</sup> Totals include other less important vegetables.

**Annual Statistics of Fruit Production.**—Table 28 shows the estimated quantities and values of commercial fruits produced in Canada in 1932 and 1933.

Owing to changes in the method of collecting these statistics, in some instances they cannot be considered as strictly comparable with those published in previous editions of the Year Book. Figures for the years 1923-31 on the old basis will be found at p. 1054 of the 1932 Year Book.

**28.—Estimated Quantities and Values of Commercial Fruit Production in Canada 1932-33.**

| Kind of Fruit.          | 1932.                   |                   |                        | 1933.           |                |                   |
|-------------------------|-------------------------|-------------------|------------------------|-----------------|----------------|-------------------|
|                         | Total Quantity.         | Average Price.    | Total Value.           | Total Quantity. | Average Price. | Total Value.      |
|                         | No.                     | \$                | \$                     | No.             | \$             | \$                |
| Apples..... brl.        | 3,737,960 <sup>1</sup>  | 1.87 <sup>1</sup> | 7,007,900 <sup>1</sup> | 5,329,800       | 1.96           | 10,464,800        |
| Pears..... bush.        | 274,500 <sup>1</sup>    | 0.80 <sup>1</sup> | 298,000 <sup>1</sup>   | 469,785         | 1.21           | 567,300           |
| Plums and prunes..... " | 243,000 <sup>1</sup>    | 0.93 <sup>1</sup> | 226,800 <sup>1</sup>   | 226,859         | 1.13           | 257,400           |
| Peaches..... "          | 812,500 <sup>1</sup>    | 1.12 <sup>1</sup> | 907,000 <sup>1</sup>   | 802,248         | 1.43           | 1,146,300         |
| Apricots..... "         | 56,000 <sup>1</sup>     | 2.38 <sup>1</sup> | 133,000 <sup>1</sup>   | 22,841          | 3.69           | 84,000            |
| Cherries..... "         | 258,500 <sup>1</sup>    | 1.94 <sup>1</sup> | 500,500 <sup>1</sup>   | 215,406         | 2.30           | 494,600           |
| Strawberries..... qt.   | 24,533,000 <sup>1</sup> | 0.06              | 1,440,700 <sup>1</sup> | 22,742,700      | 0.08           | 1,847,200         |
| Raspberries..... "      | 9,128,900 <sup>1</sup>  | 0.09              | 780,700 <sup>1</sup>   | 6,376,300       | 0.11           | 717,100           |
| Grapes..... lb.         | 49,694,000 <sup>1</sup> | 0.014             | 695,300 <sup>1</sup>   | 42,230,000      | 0.015          | 645,300           |
| <b>Totals.....</b>      | <b>—</b>                | <b>—</b>          | <b>11,989,000</b>      | <b>—</b>        | <b>—</b>       | <b>16,224,000</b> |

<sup>1</sup> Revised since the publication of the 1933 Year Book.

**The Tree Nursery Industry.**—The first Canadian commercial nursery was established near Fonthill, Ont., and it was followed within a few years by the establishment of a nursery in Toronto by a Rochester, N.Y., firm. Since that time the industry has steadily spread as the country has developed, until to-day there are approximately 248 firms growing or dealing in nursery stock of all kinds, including fruit trees.

**29.—Numbers and Values of Fruit Trees, Bushes and Plants, Sold by Nurserymen in Canada, years ended May 31, 1930-33.**

| Kind of Tree, Bush or Plant. | Numbers Sold. |           |           |           | Values. |         |         |         |
|------------------------------|---------------|-----------|-----------|-----------|---------|---------|---------|---------|
|                              | 1930.         | 1931.     | 1932.     | 1933.     | 1930.   | 1931.   | 1932.   | 1933.   |
|                              | No.           | No.       | No.       | No.       | \$      | \$      | \$      | \$      |
| Apples—                      |               |           |           |           |         |         |         |         |
| Early.....                   | 45,587        | 42,455    | 46,575    | 41,281    | 16,466  | 17,225  | 15,752  | 14,485  |
| Fall.....                    | 63,354        | 42,352    | 65,567    | 56,046    | 24,408  | 13,964  | 19,746  | 18,014  |
| Winter.....                  | 159,361       | 151,831   | 175,383   | 131,361   | 54,592  | 57,171  | 59,887  | 47,080  |
| Crab apples.....             | 12,281        | 8,328     | 9,179     | 11,648    | 3,783   | 3,301   | 2,928   | 3,610   |
| Totals, Apples.....          | 280,583       | 244,966   | 296,504   | 247,330   | 99,249  | 91,663  | 98,314  | 83,189  |
| Pears.....                   | 35,198        | 41,268    | 42,752    | 49,480    | 15,618  | 20,569  | 19,161  | 22,617  |
| Plums.....                   | 50,686        | 37,168    | 35,512    | 42,205    | 20,033  | 18,555  | 14,421  | 16,627  |
| Peaches.....                 | 53,466        | 72,190    | 80,471    | 135,045   | 14,271  | 17,814  | 17,798  | 33,640  |
| Cherries.....                | 47,738        | 48,396    | 44,732    | 46,264    | 22,837  | 25,024  | 21,161  | 20,768  |
| Apricots.....                | 556           | 926       | 608       | 2,215     | 276     | 496     | 182     | 575     |
| Quinces.....                 | 69            | 157       | 42        | 55        | 31      | 86      | 21      | 28      |
| Blackberries.....            | 24,170        | 27,838    | 31,932    | 24,888    | 1,216   | 1,293   | 1,216   | 996     |
| Currants.....                | 69,724        | 65,777    | 57,004    | 70,177    | 5,937   | 6,376   | 4,687   | 5,883   |
| Grapes.....                  | 1,047,647     | 483,734   | 208,825   | 143,126   | 75,408  | 39,126  | 13,267  | 12,463  |
| Gooseberries.....            | 35,742        | 30,866    | 34,917    | 36,425    | 5,411   | 5,004   | 3,674   | 4,317   |
| Raspberries.....             | 520,504       | 603,076   | 681,256   | 721,969   | 25,715  | 26,666  | 27,395  | 24,657  |
| Loganberries.....            | 1,862         | 7,143     | 1,168     | 803       | 179     | 2,539   | 113     | 112     |
| Strawberries.....            | 1,593,353     | 1,539,159 | 1,619,719 | 1,064,787 | 17,076  | 14,660  | 12,365  | 9,490   |
| Totals.....                  | -             | -         | -         | -         | 303,257 | 269,906 | 233,775 | 235,362 |

**Floriculture.**—The total value of floricultural and decorative plants grown in Canada and sold during the year ended May 31, 1933, was \$1,451,477 as indicated by Table 30.

**30.—Quantities and Values of Floricultural and Decorative Plants Grown in Canada and Sold during the year ended May 31, 1933.**

| Kind of Plant.                           | Quantity. | Average Wholesale Price per Unit. | Total Wholesale Value. | Kind of Plant.                                                   | Quantity.  | Average Wholesale Price per Unit. | Total Wholesale Value. |
|------------------------------------------|-----------|-----------------------------------|------------------------|------------------------------------------------------------------|------------|-----------------------------------|------------------------|
| No.                                      |           | \$                                | \$                     | No.                                                              |            | \$                                | \$                     |
| 1. Outdoor roses....                     | 330,576   | 0.18                              | 59,086                 | 8. Flowering plants for indoor use...                            | 351,423    | -                                 | 203,100                |
| 2. Ornamental trees (ever-green).....    | 56,358    | 0.92                              | 51,929                 | 9. Decorative plants for indoor use.....                         | 88,744     | -                                 | 33,196                 |
| 3. Ornamental trees (deciduous).....     | 95,552    | 0.40                              | 37,853                 | 10. Flowering bulbs.....                                         | 853,528    | 0.02                              | 19,817                 |
| 6. Shrubs for outdoor planting...        | 614,311   | 0.15                              | 90,689                 | 11. Cut flowers, grown indoors.....                              | 22,820,069 | -                                 | 897,733                |
| 5. Perennials.....                       | 371,971   | 0.10                              | 37,511                 | 12. All other varieties, including the above grown outdoors..... | -          | -                                 | 17,149                 |
| 7. Biennials.....                        | 54,114    | 0.07                              | 3,841                  |                                                                  |            |                                   |                        |
| 7. Bedding plants for transplanting..... | 2,374,308 | -                                 | 84,104                 | <b>Total Value.....</b>                                          | -          | -                                 | <b>1,451,477</b>       |

**Subsection 7.—Special Agricultural Crops.**

**Maple Syrup and Sugar.**—The Canada Year Book, 1924, contained on pp. 247 and 248 a description of the process of making maple sugar. Table 31 gives the production and value of maple sugar and syrup in Canada for the years 1932, 1933 and 1934 as estimated by the Dominion Bureau of Statistics.

### 31.—Estimated Quantities and Values of Maple Sugar and Maple Syrup Produced in Canada, by Provinces, 1932-34.

| Province and Year.     | Maple Sugar.           |                       |                      | Maple Syrup.           |                           |                        | Total Value of Sugar and Syrup. |
|------------------------|------------------------|-----------------------|----------------------|------------------------|---------------------------|------------------------|---------------------------------|
|                        | Quantity.              | Average Price per lb. | Value.               | Quantity.              | Average Price per Gallon. | Value.                 |                                 |
|                        | lb.                    | cts.                  | \$                   | gal.                   | \$                        | \$                     | \$                              |
| Nova Scotia.....1932   | 98,400 <sup>1</sup>    | 27                    | 26,568 <sup>1</sup>  | 9,084 <sup>1</sup>     | 2.24                      | 20,348 <sup>1</sup>    | 46,916 <sup>1</sup>             |
| 1933                   | 46,980                 | 23                    | 10,805               | 8,353                  | 1.92                      | 16,038                 | 26,843                          |
| 1934                   | 108,650                | 26                    | 28,250               | 18,500                 | 1.90                      | 35,150                 | 63,400                          |
| New Brunswick.....1932 | 129,600 <sup>1</sup>   | 21                    | 27,216 <sup>1</sup>  | 9,006 <sup>1</sup>     | 1.89                      | 17,021 <sup>1</sup>    | 44,237 <sup>1</sup>             |
| 1933                   | 130,170                | 15                    | 19,526               | 14,679                 | 1.68                      | 24,661                 | 44,187                          |
| 1934                   | 94,750                 | 17                    | 16,100               | 5,800                  | 1.72                      | 10,000                 | 26,100                          |
| Quebec.....1932        | 6,681,000              | 9                     | 585,000              | 1,142,000              | 1.00 <sup>1</sup>         | 1,142,000              | 1,727,000                       |
| 1933                   | 5,400,300              | 8                     | 432,000              | 844,700                | 0.99                      | 836,300                | 1,268,300                       |
| 1934                   | 4,288,700              | 10.5                  | 450,300              | 1,286,600              | 1.14                      | 1,466,750              | 1,917,050                       |
| Ontario.....1932       | 351,000 <sup>1</sup>   | 18                    | 63,180               | 549,900 <sup>1</sup>   | 1.50                      | 824,850 <sup>1</sup>   | 888,030 <sup>1</sup>            |
| 1933                   | 207,680                | 18                    | 37,382               | 394,583                | 1.73                      | 682,629                | 720,011                         |
| 1934                   | 462,300                | 18                    | 83,200               | 531,600                | 1.80                      | 956,900                | 1,040,100                       |
| Canada.....1932        | 7,260,000 <sup>1</sup> | 10                    | 701,961 <sup>1</sup> | 1,709,990 <sup>1</sup> | 1.17 <sup>1</sup>         | 2,004,219 <sup>1</sup> | 2,706,183 <sup>1</sup>          |
| 1933                   | 5,785,130              | 9                     | 499,713              | 1,262,315              | 1.24                      | 1,559,628              | 2,059,341                       |
| 1934                   | 4,954,400              | 12                    | 577,850              | 1,842,500              | 1.34                      | 2,468,800              | 3,046,650                       |

<sup>1</sup>Revised since the publication of the 1933 Year Book.

The table shows that for the whole of Canada there were estimated increases of 254,620 lb. of maple sugar and 137,117 gal. of maple syrup and an increase of \$320,089 in the combined value of the two products in 1934 as compared with 1933.

**Sugar Beets and Beetroot Sugar.**—A brief account of the development of the beetroot sugar industry in Canada will be found in the Canada Year Book, 1925, pp. 255-256. At the present time two companies are operating in Canada: the Canada and Dominion Sugar Co., Ltd., with factories at Chatham and Wallaceburg in Ontario, and the Canadian Sugar Factories, Ltd., with a plant at Raymond, Alberta. Table 32 shows the area, yield and value of sugar beets grown in Canada in the years 1924-33.

### 32.—Acreages, Yields and Values of Sugar Beets in Canada and Quantities of Refined Beetroot Sugar Produced, 1924-33.

| Year.     | Area Grown. | Yield per acre. | Total Yield. | Average Price per ton. | Total Value. | Quantity and Value of Refined Beetroot Sugar Produced. |           |               |
|-----------|-------------|-----------------|--------------|------------------------|--------------|--------------------------------------------------------|-----------|---------------|
|           | acres.      | tons.           | tons.        | \$                     | \$           | lb.                                                    | \$        | cents per lb. |
| 1924..... | 31,111      | 9.50            | 295,177      | 5.78                   | 1,704,791    | 85,770,709                                             | 6,192,645 | 7.21          |
| 1925..... | 34,803      | 10.63           | 370,047      | 7.27                   | 2,688,302    | 72,819,919                                             | 5,206,624 | 7.14          |
| 1926..... | 30,073      | 8.90            | 267,754      | 8.54                   | 2,286,761    | 70,388,105                                             | 4,269,076 | 6.07          |
| 1927..... | 25,961      | 7.96            | 206,713      | 9.73                   | 2,012,134    | 60,969,131                                             | 3,694,303 | 6.06          |
| 1928..... | 34,323      | 7.14            | 244,930      | 8.33                   | 2,041,465    | 64,653,348                                             | 3,340,571 | 5.17          |
| 1929..... | 32,556      | 7.23            | 235,465      | 8.84                   | 2,080,996    | 69,399,213                                             | 3,335,344 | 4.81          |
| 1930..... | 40,532      | 9.80            | 397,576      | 8.25                   | 3,278,625    | 94,624,700                                             | 4,529,944 | 4.79          |
| 1931..... | 43,337      | 10.06           | 435,992      | 7.32                   | 3,190,198    | 107,139,129                                            | 4,794,551 | 4.48          |
| 1932..... | 44,817      | 11.28           | 505,671      | 6.16                   | 3,113,942    | 132,016,859                                            | 5,789,205 | 4.39          |
| 1933..... | 43,807      | 10.10           | 442,391      | 6.31                   | 2,790,929    | 131,392,501                                            | 5,713,181 | 4.35          |

The yields in 1933 of the largest beet-growing countries, in thousands of short tons, were as follows: Russia, 9,921; Germany, 9,457; United States, 11,030; France, 8,224; Czechoslovakia, 3,212; Poland, 2,042; Italy, 2,363; England and Wales, 3,360; Belgium, 1,671; Netherlands, 2,148; Austria, 1,177.

**Tobacco.\***—In 1933, the commercial tobacco crop of Canada amounted to 39,400,000 pounds from 39,400 acres, as compared with 54,094,000 pounds from 54,094 acres in 1932. The farm value of the tobacco crop in 1933 is estimated at \$5,201,490 as compared with \$6,088,300 in 1932.

Table 33 lists the acreages, quantities produced and average yields per acre for 1900, 1910, and 1920 to 1933. The acreages for 1911, 1921 and 1931 are also the comprehensive figures of the census. For the inter-censal years, the acreage and production statistics quoted relate to the commercial crop only. This distinction is much more necessary in Quebec than in Ontario, since a considerable part of the tobacco production of Quebec comes from small plots.

**33.—Acreages and Yields of Tobacco in Canada, by Provinces, 1900, 1910, 1911 and 1920-33.**

| Year.             | Areas.  |          |                      | Yields. |          |                      | Average Yields. |               |                      |
|-------------------|---------|----------|----------------------|---------|----------|----------------------|-----------------|---------------|----------------------|
|                   | Quebec. | Ontario. | Canada. <sup>2</sup> | Quebec. | Ontario. | Canada. <sup>2</sup> | Quebec.         | Ontario.      | Canada. <sup>2</sup> |
|                   | acres.  | acres.   | acres.               | 000 lb. | 000 lb.  | 000 lb.              | lb. per acre.   | lb. per acre. | lb. per acre.        |
| 1900 <sup>1</sup> | 8,661   | 3,144    | 11,906               | 7,565   | 3,504    | 11,267               | 881             | 1,114         | 946                  |
| 1910 <sup>1</sup> | 11,818  | 7,017    | 18,928               | 10,115  | 7,499    | 17,632               | 856             | 1,068         | 931                  |
| 1911 <sup>1</sup> | 12,134  | 13,591   | 25,826               | —       | —        | —                    | —               | —             | —                    |
| 1920 <sup>1</sup> | 17,252  | 19,621   | 36,891               | 13,366  | 19,279   | 32,660               | 775             | 983           | 883                  |
| 1921 <sup>1</sup> | 9,958   | 6,663    | 16,628               | —       | —        | —                    | —               | —             | —                    |
| 1921.             | 5,266   | 6,553    | 11,809               | 6,127   | 7,122    | 13,249               | 1,166           | 1,091         | 1,124                |
| 1922.             | 16,573  | 9,189    | 25,762               | 14,916  | 11,032   | 25,948               | 900             | 1,201         | 1,007                |
| 1923.             | 15,302  | 8,680    | 23,932               | 10,500  | 21,297   | 10,797               | 880             | 1,251         | 890                  |
| 1924.             | 8,044   | 13,273   | 21,317               | 6,576   | 12,135   | 18,711               | 817             | 914           | 878                  |
| 1925.             | 9,554   | 18,261   | 27,825               | 8,632   | 20,623   | 29,266               | 910             | 1,130         | 1,052                |
| 1926.             | 9,808   | 23,493   | 33,356               | 8,693   | 20,064   | 28,824               | 886             | 854           | 864                  |
| 1927.             | 10,018  | 33,650   | 44,028               | 7,824   | 35,622   | 43,910               | 769             | 1,095         | 997                  |
| 1928.             | 10,368  | 32,654   | 43,138               | 8,546   | 33,266   | 41,976               | 824             | 1,019         | 972                  |
| 1929.             | 9,300   | 26,910   | 36,310               | 8,380   | 27,419   | 29,886               | 901             | 795           | 823                  |
| 1930.             | 8,450   | 32,805   | 41,444               | 8,021   | 28,617   | 36,717               | 901             | 876           | 886                  |
| 1931 <sup>1</sup> | 7,330   | 47,360   | 55,060               | 6,340   | 44,770   | 51,300               | 855             | 945           | 932                  |
| 1932.             | 8,520   | 45,106   | 54,138               | 7,952   | 45,760   | 54,094               | 933             | 1,014         | 999                  |
| 1933.             | 6,090   | 39,326   | 45,953               | 6,095   | 32,996   | 39,400               | 1,001           | 839           | 857                  |

<sup>1</sup> Census data. <sup>2</sup> The totals for Canada include small amounts produced in other provinces, principally in British Columbia.

**Flax Fibre.**—Table 34, compiled from information furnished by the Economic Fibre Division of the Dominion Experimental Farms, shows the area, production and value of flax fibre and allied products in Canada for each of the years 1915 to 1934.

\*For further details, see Monthly Bulletin of Agricultural Statistics for March, 1934, pp. 68-70.

**34.—Acreages, Yields and Values of Flax Fibre, etc., in Canada, 1915-34.**

| Year. | Area.  | Production. |           |       | Values. |           |         |           |
|-------|--------|-------------|-----------|-------|---------|-----------|---------|-----------|
|       |        | Seed.       | Fibre.    | Tow.  | Seed.   | Fibre.    | Tow.    | Total.    |
|       | acres. | bush.       | lb.       | tons. | \$      | \$        | \$      | \$        |
| 1915. | 4,000  | 48,000      | 1,600,000 | 80    | 76,800  | 320,000   | 2,800   | 399,600   |
| 1916. | 5,200  | 25,000      | 600,000   | 75    | 75,000  | 180,000   | 15,000  | 270,000   |
| 1917. | 8,000  | 72,000      | 2,800,000 | —     | 398,000 | 1,540,000 | —       | 1,938,000 |
| 1918. | 20,000 | 110,000     | 6,200,000 | 900   | 930,769 | 1,085,000 | 270,000 | 2,235,769 |
| 1919. | 20,262 | 90,000      | 4,416,000 | 1,162 | 987,500 | 3,975,400 | 581,000 | 4,942,900 |
| 1920. | 31,300 | 217,000     | 7,440,000 | 1,560 | 434,000 | 5,952,000 | 744,000 | 7,130,000 |
| 1921. | 6,515  | 52,120      | 1,824,200 | 372   | 469,080 | 1,550,570 | 148,800 | 2,168,450 |
| 1922. | 1,200  | 10,800      | 360,000   | 96    | 21,600  | 72,000    | 11,520  | 105,120   |
| 1923. | 3,300  | 20,000      | 272,650   | 74½   | 50,000  | 111,375   | 4,440   | 165,815   |
| 1924. | 5,760  | 69,120      | 1,785,600 | 181   | 172,800 | 535,500   | 3,750   | 712,050   |
| 1925. | 6,200  | 68,200      | 1,440,000 | 2,325 | 136,400 | 201,600   | 116,250 | 454,250   |
| 1926. | 4,025  | 48,300      | —         | 2,075 | 96,600  | —         | 111,250 | 207,850   |
| 1927. | 4,260  | 36,080      | —         | 4,260 | 108,240 | —         | 213,000 | 321,240   |
| 1928. | 6,880  | 41,280      | —         | 6,880 | 165,120 | —         | 344,000 | 509,120   |
| 1929. | 6,280  | 32,970      | —         | 4,500 | 156,607 | —         | 236,250 | 392,857   |
| 1930. | 6,143  | 62,232      | —         | 6,086 | 96,684  | —         | 273,870 | 370,554   |
| 1931. | 4,220  | 35,870      | 25,000    | 3,019 | 53,805  | 4,000     | 120,760 | 178,565   |
| 1932. | 5,135  | 35,945      | 200,000   | 3,552 | 56,156  | 18,000    | 95,964  | 169,960   |
| 1933. | 5,091  | 30,546      | —         | 3,055 | 65,227  | —         | 96,233  | 159,460   |
| 1934. | 5,965  | 41,755      | 45,000    | 4,361 | 128,268 | 7,200     | 114,450 | 249,918   |



**Hives and Honey.**—The number of hives of bees in Canada was 189,986 in 1901, 180,372 in 1911, 185,530 in 1921 and 279,453 in 1931. The quantity of honey produced was 3,569,567 lb. in 1900, 6,089,784 lb. in 1910, 6,370,300 lb. in 1920 and 18,459,972 lb. in 1930. The above figures show that there has been a pronounced expansion in apiculture in the decade from 1920 to 1930 which is covered by Table 35. Ontario and Quebec have always been the chief honey-producing provinces, but, while these two provinces produced nearly 95 p.c. of the total for Canada in 1920, in 1930 their production was little over 80 p.c. of the total. The most notable development of the decade was the great increase in both the number of hives and the production of honey in the Prairie Provinces. In 1920 the production of these three provinces amounted to only 2 p.c. of the total for Canada, while in 1930 it had increased to over 16 p.c. of the total.

**35.—Numbers of Hives of Bees and Quantities and Values of Honey Produced in Canada, as Recorded at the Censuses of 1921 and 1931.**

| Province.                 | On Farms.      |                |                      |                   |                    |                |                          |                  |
|---------------------------|----------------|----------------|----------------------|-------------------|--------------------|----------------|--------------------------|------------------|
|                           | Hives.         |                | Quantities of Honey. |                   | Quantities of Wax. |                | Values of Honey and Wax. |                  |
|                           | 1921.          | 1931.          | 1920.                | 1930.             | 1920.              | 1930.          | 1920.                    | 1930.            |
|                           | No.            | No.            | lb.                  | lb.               | lb.                | lb.            | \$                       | \$               |
| Prince Edward Island..... | 41             | 194            | 2,355                | 8,224             | —                  | 81             | 596                      | 1,088            |
| Nova Scotia.....          | 616            | 905            | 19,362               | 34,693            | 167                | 455            | 6,397                    | 5,073            |
| New Brunswick.....        | 1,738          | 1,240          | 26,211               | 48,787            | 402                | 648            | 7,602                    | 8,575            |
| Quebec.....               | 49,130         | 64,542         | 1,559,885            | 3,259,796         | 25,741             | 41,909         | 386,321                  | 360,912          |
| Ontario.....              | 84,571         | 116,871        | 3,146,198            | 7,925,824         | 42,060             | 89,975         | 802,780                  | 688,552          |
| Manitoba.....             | 3,737          | 15,918         | 66,047               | 1,475,225         | 600                | 14,757         | 22,148                   | 143,703          |
| Saskatchewan.....         | 1,470          | 3,813          | 4,523                | 284,538           | 148                | 2,218          | 1,607                    | 38,365           |
| Alberta.....              | 227            | 3,208          | 7,274                | 284,036           | 52                 | 2,028          | 2,542                    | 31,960           |
| British Columbia.....     | 6,575          | 8,658          | 105,200              | 345,411           | 1,235              | 4,353          | 32,841                   | 48,002           |
| <b>Canada.....</b>        | <b>148,105</b> | <b>215,349</b> | <b>4,937,055</b>     | <b>13,666,534</b> | <b>70,405</b>      | <b>156,424</b> | <b>1,262,834</b>         | <b>1,326,230</b> |

| Province.                 | Not on Farms. |               |                      |                  | Totals.        |                |                      |                   |
|---------------------------|---------------|---------------|----------------------|------------------|----------------|----------------|----------------------|-------------------|
|                           | Hives.        |               | Quantities of Honey. |                  | Hives.         |                | Quantities of Honey. |                   |
|                           | 1921.         | 1931.         | 1920.                | 1930.            | 1921.          | 1931.          | 1920.                | 1930.             |
|                           | No.           | No.           | lb.                  | lb.              | No.            | No.            | lb.                  | lb.               |
| Prince Edward Island..... | 34            | 6             | 370                  | 420              | 75             | 200            | 2,725                | 8,644             |
| Nova Scotia.....          | 226           | 85            | 8,129                | 2,215            | 842            | 990            | 27,491               | 36,908            |
| New Brunswick.....        | 868           | 187           | 20,817               | 6,892            | 2,606          | 1,427          | 47,028               | 55,679            |
| Quebec.....               | 9,500         | 12,784        | 358,420              | 664,311          | 58,630         | 77,326         | 1,918,305            | 3,924,107         |
| Ontario.....              | 22,982        | 38,869        | 963,240              | 2,957,538        | 107,553        | 155,740        | 4,109,438            | 10,883,362        |
| Manitoba.....             | 1,538         | 4,637         | 45,568               | 465,608          | 5,275          | 20,555         | 111,615              | 1,940,833         |
| Saskatchewan.....         | 15            | 1,286         | 177                  | 60,360           | 1,485          | 5,099          | 4,700                | 344,898           |
| Alberta.....              | 351           | 2,467         | 6,095                | 460,890          | 578            | 5,675          | 13,369               | 744,926           |
| British Columbia.....     | 1,911         | 3,783         | 30,429               | 175,204          | 8,486          | 12,441         | 135,629              | 520,615           |
| <b>Canada.....</b>        | <b>37,425</b> | <b>64,104</b> | <b>1,433,245</b>     | <b>4,793,438</b> | <b>185,530</b> | <b>279,453</b> | <b>6,370,300</b>     | <b>18,459,972</b> |

There are at present no uniform annual statistics of hives and honey for all the provinces, but a synopsis of the existing provincial estimates for recent years was given in the Monthly Bulletin of Agricultural Statistics for March, 1934. These estimates show a honey production in 1933 amounting to 19,543,500 lb., the average value per lb. 9 cents and the total value \$1,706,800.

## Subsection 8.—Farm Labour and Wages.

**Average Wages of Farm Help.**—The cost of farm labour reached its highest point in 1920. In the next two years there was a rapid drop, while from 1923 until 1929, there was little change. The years 1930 to 1933 showed continuous marked reductions in the average value of yearly wages and board, following the downward trend of the prices of farm produce. In 1934 slight increases were registered.

In Table 36 the values of wages and board are given for the years 1914, 1920, 1930 and 1932-34, both for the summer season and for the year, distinction being made in all cases between wages and board.

**36.—Average Wages and Board of Farm Help in Canada, as Estimated by Crop Correspondents, 1914, 1920, 1930 and 1932-34.**

NOTE.—M=Males. F=Females.

| Province.        | Year. | Per Month in Summer Season. |    |        |    |                  |    | Per Year. |     |        |     |                  |     |
|------------------|-------|-----------------------------|----|--------|----|------------------|----|-----------|-----|--------|-----|------------------|-----|
|                  |       | Wages.                      |    | Board. |    | Wages and Board. |    | Wages.    |     | Board. |     | Wages and Board. |     |
|                  |       | M.                          | F. | M.     | F. | M.               | F. | M.        | F.  | M.     | F.  | M.               | F.  |
|                  |       | \$                          | \$ | \$     | \$ | \$               | \$ | \$        | \$  | \$     | \$  | \$               | \$  |
| Canada.....      | 1914  | 21                          | 8  | 14     | 11 | 36               | 19 | 155       | 57  | 168    | 132 | 323              | 189 |
|                  | 1920  | 60                          | 27 | 26     | 20 | 86               | 47 | 543       | 275 | 278    | 217 | 821              | 492 |
|                  | 1930  | 34                          | 20 | 22     | 18 | 56               | 38 | 326       | 210 | 233    | 199 | 559              | 409 |
|                  | 1932  | 19                          | 11 | 15     | 12 | 34               | 23 | 176       | 120 | 165    | 135 | 341              | 255 |
|                  | 1933  | 17                          | 10 | 15     | 12 | 32               | 22 | 161       | 112 | 161    | 134 | 322              | 246 |
|                  | 1934  | 18                          | 10 | 15     | 12 | 33               | 22 | 171       | 115 | 167    | 138 | 338              | 253 |
| P.E. Island..... | 1914  | 15                          | 5  | 10     | 8  | 25               | 13 | 101       | 40  | 120    | 96  | 221              | 136 |
|                  | 1920  | 42                          | 18 | 18     | 14 | 60               | 32 | 371       | 212 | 201    | 160 | 572              | 272 |
|                  | 1930  | 32                          | 16 | 18     | 14 | 50               | 30 | 308       | 179 | 205    | 165 | 513              | 344 |
|                  | 1932  | 18                          | 10 | 12     | 11 | 30               | 21 | 164       | 106 | 141    | 119 | 305              | 225 |
|                  | 1933  | 18                          | 11 | 12     | 10 | 30               | 21 | 178       | 116 | 141    | 121 | 319              | 237 |
|                  | 1934  | 17                          | 10 | 13     | 11 | 30               | 21 | 167       | 110 | 153    | 121 | 320              | 231 |
| Nova Scotia..... | 1914  | 20                          | 7  | 11     | 8  | 31               | 15 | 169       | 59  | 132    | 96  | 301              | 155 |
|                  | 1920  | 49                          | 21 | 24     | 17 | 73               | 38 | 472       | 218 | 263    | 190 | 735              | 408 |
|                  | 1930  | 34                          | 17 | 20     | 14 | 54               | 31 | 353       | 187 | 209    | 157 | 562              | 344 |
|                  | 1932  | 22                          | 13 | 15     | 12 | 37               | 25 | 213       | 135 | 164    | 126 | 377              | 261 |
|                  | 1933  | 20                          | 12 | 14     | 11 | 34               | 23 | 208       | 129 | 157    | 119 | 365              | 248 |
|                  | 1934  | 20                          | 11 | 15     | 11 | 35               | 22 | 195       | 124 | 165    | 129 | 360              | 253 |
| New Brunswick    | 1914  | 21                          | 7  | 11     | 8  | 32               | 15 | 170       | 69  | 132    | 96  | 302              | 165 |
|                  | 1920  | 56                          | 19 | 23     | 16 | 79               | 35 | 531       | 213 | 254    | 178 | 785              | 391 |
|                  | 1930  | 34                          | 16 | 20     | 15 | 54               | 31 | 335       | 181 | 215    | 164 | 550              | 345 |
|                  | 1932  | 20                          | 11 | 13     | 11 | 33               | 22 | 175       | 121 | 145    | 115 | 320              | 236 |
|                  | 1933  | 18                          | 10 | 13     | 10 | 31               | 20 | 185       | 107 | 151    | 120 | 336              | 227 |
|                  | 1934  | 22                          | 10 | 13     | 11 | 35               | 21 | 214       | 115 | 152    | 130 | 366              | 245 |
| Quebec.....      | 1914  | 21                          | 7  | 13     | 9  | 34               | 16 | 140       | 44  | 156    | 108 | 296              | 152 |
|                  | 1920  | 62                          | 24 | 24     | 16 | 86               | 40 | 524       | 235 | 243    | 172 | 767              | 407 |
|                  | 1930  | 33                          | 17 | 19     | 13 | 52               | 30 | 316       | 175 | 194    | 139 | 510              | 314 |
|                  | 1932  | 18                          | 10 | 12     | 9  | 30               | 19 | 158       | 104 | 126    | 98  | 284              | 202 |
|                  | 1933  | 17                          | 9  | 11     | 9  | 28               | 18 | 152       | 94  | 113    | 93  | 265              | 187 |
|                  | 1934  | 18                          | 9  | 12     | 10 | 30               | 19 | 164       | 96  | 129    | 96  | 293              | 192 |
| Ontario.....     | 1914  | 19                          | 7  | 13     | 10 | 32               | 17 | 141       | 52  | 156    | 120 | 297              | 172 |
|                  | 1920  | 52                          | 25 | 23     | 19 | 75               | 44 | 474       | 259 | 262    | 211 | 736              | 470 |
|                  | 1930  | 31                          | 21 | 20     | 17 | 51               | 38 | 304       | 229 | 228    | 194 | 532              | 423 |
|                  | 1932  | 18                          | 12 | 15     | 12 | 33               | 24 | 178       | 130 | 163    | 130 | 341              | 260 |
|                  | 1933  | 17                          | 12 | 15     | 13 | 32               | 25 | 159       | 123 | 166    | 141 | 325              | 264 |
|                  | 1934  | 18                          | 12 | 15     | 13 | 33               | 25 | 173       | 137 | 171    | 150 | 344              | 287 |

**36.—Average Wages and Board of Farm Help in Canada, as Estimated by Crop Correspondents, 1914, 1920, 1930 and 1932-34—concluded.**

NOTE.—M=Males. F=Females.

| Province.             | Year. | Per Month in Summer Season. |    |        |    |                  |    | Per Year. |     |        |     |                  |     |
|-----------------------|-------|-----------------------------|----|--------|----|------------------|----|-----------|-----|--------|-----|------------------|-----|
|                       |       | Wages.                      |    | Board. |    | Wages and Board. |    | Wages.    |     | Board. |     | Wages and Board. |     |
|                       |       | M.                          | F. | M.     | F. | M.               | F. | M.        | F.  | M.     | F.  | M.               | F.  |
|                       |       | \$                          | \$ | \$     | \$ | \$               | \$ | \$        | \$  | \$     | \$  | \$               | \$  |
| Manitoba.....         | 1914  | 24                          | 9  | 15     | 13 | 39               | 22 | 184       | 70  | 180    | 156 | 364              | 226 |
|                       | 1920  | 70                          | 34 | 28     | 24 | 98               | 58 | 650       | 312 | 325    | 247 | 975              | 559 |
|                       | 1930  | 32                          | 18 | 21     | 18 | 53               | 36 | 298       | 194 | 238    | 204 | 536              | 398 |
|                       | 1932  | 17                          | 10 | 15     | 13 | 32               | 23 | 164       | 101 | 173    | 148 | 337              | 249 |
|                       | 1933  | 15                          | 8  | 14     | 12 | 29               | 20 | 143       | 89  | 164    | 140 | 307              | 229 |
|                       | 1934  | 16                          | 8  | 15     | 13 | 31               | 21 | 149       | 92  | 163    | 141 | 312              | 233 |
| Saskatchewan..        | 1914  | 24                          | 9  | 17     | 14 | 41               | 23 | 162       | 67  | 204    | 168 | 366              | 235 |
|                       | 1920  | 72                          | 35 | 30     | 25 | 102              | 60 | 667       | 364 | 336    | 289 | 1,003            | 653 |
|                       | 1930  | 37                          | 21 | 23     | 19 | 60               | 40 | 340       | 215 | 253    | 212 | 593              | 427 |
|                       | 1932  | 18                          | 10 | 15     | 13 | 33               | 23 | 158       | 98  | 166    | 142 | 324              | 240 |
|                       | 1933  | 16                          | 8  | 15     | 12 | 31               | 20 | 144       | 85  | 161    | 137 | 305              | 222 |
|                       | 1934  | 16                          | 8  | 15     | 12 | 31               | 20 | 153       | 89  | 166    | 141 | 319              | 230 |
| Alberta.....          | 1914  | 24                          | 10 | 16     | 14 | 40               | 24 | 173       | 68  | 192    | 168 | 365              | 236 |
|                       | 1920  | 76                          | 36 | 31     | 26 | 107              | 62 | 697       | 360 | 341    | 278 | 1,038            | 638 |
|                       | 1930  | 37                          | 21 | 23     | 20 | 60               | 41 | 342       | 223 | 256    | 222 | 598              | 445 |
|                       | 1932  | 20                          | 12 | 16     | 14 | 36               | 26 | 185       | 120 | 182    | 159 | 367              | 279 |
|                       | 1933  | 19                          | 10 | 15     | 13 | 34               | 23 | 170       | 109 | 174    | 152 | 344              | 261 |
|                       | 1934  | 19                          | 11 | 16     | 14 | 35               | 25 | 178       | 113 | 172    | 150 | 350              | 263 |
| British Columbia..... | 1914  | 27                          | 13 | 21     | 18 | 48               | 31 | 208       | 108 | 252    | 216 | 460              | 324 |
|                       | 1920  | 64                          | 36 | 31     | 27 | 95               | 63 | 684       | 431 | 349    | 311 | 1,033            | 742 |
|                       | 1930  | 46                          | 25 | 26     | 21 | 72               | 46 | 450       | 270 | 291    | 242 | 741              | 512 |
|                       | 1932  | 25                          | 15 | 19     | 15 | 44               | 30 | 250       | 168 | 217    | 180 | 467              | 348 |
|                       | 1933  | 23                          | 14 | 19     | 15 | 42               | 29 | 234       | 152 | 212    | 180 | 446              | 332 |
|                       | 1934  | 24                          | 14 | 19     | 16 | 43               | 30 | 240       | 162 | 222    | 187 | 462              | 349 |

**Subsection 9.—Prices of Agricultural Produce.**

The average monthly cash prices of representative grades of Canadian wheat, oats, barley, flax and rye in the Winnipeg market—basis, in store at Fort William and Port Arthur—will be found for each month from January, 1933, to December, 1934, in Table 37. The average yearly prices of home-grown wheat, barley and oats in England and Wales are furnished in Table 38; in this table British currency is converted into Canadian currency at par rate of exchange (£=\$4.86). The average monthly prices of flour, bran and shorts at Montreal, Toronto, Winnipeg, Minneapolis and Duluth for 1933 and 1934 are given in Table 39.

The yearly average prices per cwt. of Canadian live stock at Toronto, Montreal, Winnipeg and Edmonton are given for 1932 and 1933 in Table 40 and the average monthly prices in 1933 and 1934 at these centres and at Calgary in Tables 41 and 41A.

**37.—Monthly Average Cash Prices per Bushel at Winnipeg of Representative Grades of Canadian Wheat, Oats, Barley, Flax and Rye—basis, in store at Fort William and Port Arthur—1933-34, and Yearly Average Prices for crop years ended July 31, 1926-34.**

| Year and Month.                         | Wheat,<br>No. 1 N. | Oats,<br>No. 2 C.W. | Barley,<br>No. 3 C.W. | Flaxseed,<br>No. 1 C.W. | Rye,<br>No. 2 C.W. |
|-----------------------------------------|--------------------|---------------------|-----------------------|-------------------------|--------------------|
|                                         | cts.               | cts.                | cts.                  | cts.                    | cts.               |
| Averages, crop year ended July, 1926... | 151.2              | 49.6                | 63.9                  | 213.8                   | 89.8               |
| Averages, crop year ended July, 1927... | 146.2              | 58.8                | 72.7                  | 195.0                   | 99.7               |
| Averages, crop year ended July, 1928... | 146.3              | 65.2                | 85.3                  | 189.9                   | 129.9              |
| Averages, crop year ended July, 1929... | 124.0              | 58.8                | 71.4                  | 202.2                   | 100.7              |
| Averages, crop year ended July, 1930... | 124.2              | 58.6                | 60.0                  | 247.5                   | 80.2               |
| Averages, crop year ended July, 1931... | 64.2               | 29.9                | 28.4                  | 114.1                   | 34.7               |
| Averages, crop year ended July, 1932... | 59.8               | 31.4                | 37.3                  | 93.7                    | 40.0               |
| 1933.                                   |                    |                     |                       |                         |                    |
| January.....                            | 44.3               | 22.5                | 27.6                  | 77.0                    | 31.0               |
| February.....                           | 45.8               | 23.4                | 27.5                  | 77.8                    | 31.9               |
| March.....                              | 49.1               | 24.5                | 28.9                  | 79.3                    | 33.9               |
| April.....                              | 53.6               | 24.6                | 31.4                  | 84.1                    | 37.6               |
| May.....                                | 63.4               | 28.3                | 36.1                  | 109.9                   | 45.0               |
| June.....                               | 66.8               | 29.0                | 37.9                  | 135.4                   | 52.4               |
| July.....                               | 83.4               | 39.6                | 50.3                  | 163.1                   | 67.5               |
| August.....                             | 73.4               | 38.9                | 44.4                  | 141.0                   | 52.0               |
| September.....                          | 67.1               | 34.2                | 37.1                  | 147.1                   | 52.5               |
| October.....                            | 60.5               | 29.4                | 32.8                  | 130.5                   | 42.4               |
| November.....                           | 63.8               | 30.0                | 34.4                  | 139.4                   | 42.3               |
| December.....                           | 60.3               | 29.8                | 34.3                  | 141.5                   | 41.1               |
| Averages, crop year ended July, 1933... | 54.3               | 26.4                | 32.3                  | 90.6                    | 37.8               |
| 1934.                                   |                    |                     |                       |                         |                    |
| January.....                            | 65.0               | 33.5                | 38.8                  | 148.0                   | 45.9               |
| February.....                           | 65.6               | 33.8                | 40.0                  | 150.6                   | 46.6               |
| March.....                              | 66.4               | 33.6                | 39.8                  | 149.6                   | 46.0               |
| April.....                              | 65.5               | 32.4                | 36.9                  | 149.9                   | 44.0               |
| May.....                                | 70.6               | 34.6                | 38.0                  | 157.3                   | 46.4               |
| June.....                               | 77.1               | 37.8                | 43.6                  | 161.3                   | 53.4               |
| July.....                               | 82.0               | 38.8                | 45.9                  | 159.8                   | 57.9               |
| August.....                             | 86.0               | 43.6                | 56.6                  | 162.6                   | 68.8               |
| September.....                          | 82.3               | 45.8                | 58.5                  | 151.6                   | 66.0               |
| October.....                            | 78.1               | 41.5                | 51.6                  | 133.6                   | 55.8               |
| November.....                           | 79.6               | 44.1                | 52.0                  | 134.3                   | 55.9               |
| December.....                           | 79.1               | 44.3                | 54.9                  | 140.1                   | 59.0               |
| Averages, crop year ended July, 1934... | 68.1               | 33.9                | 38.8                  | 148.0                   | 47.5               |

**38.—Yearly Average Prices of Home-Grown Wheat, Barley and Oats in England and Wales, 1902-34.**

SOURCE: *London Gazette*, published pursuant to Sec. 8 of the Corn Returns Act, 1882, and the Corn Sales Act, 1921.

NOTE.—By the Corn Sales Act, 1921, the legal unit was changed from quarters of 8 bushels to long cwt., the change becoming compulsory on Jan. 1, 1923. The long cwt. is 112 lb.

| Year.     | Wheat.     |              | Barley.    |              | Oats.      |              | Year.     | Wheat.     |              | Barley.    |              | Oats.      |              |
|-----------|------------|--------------|------------|--------------|------------|--------------|-----------|------------|--------------|------------|--------------|------------|--------------|
|           | per<br>qr. | per<br>bush. | per<br>qr. | per<br>bush. | per<br>qr. | per<br>bush. |           | per<br>qr. | per<br>bush. | per<br>qr. | per<br>bush. | per<br>qr. | per<br>bush. |
|           | s. d. ¢    |              | s. d. ¢    |              | s. d. ¢    |              |           | s. d. ¢    |              | s. d. ¢    |              | s. d. ¢    |              |
| 1902..... | 28 1       | 0.85         | 25 8       | 0.78         | 20 2       | 0.61         | 1919..... | 72 11      | 2.22         | 75 9       | 2.21         | 52 5       | 1.39         |
| 1903..... | 26 9       | 0.81         | 22 8       | 0.69         | 17 2       | 0.52         | 1920..... | 80 10      | 2.46         | 89 5       | 2.60         | 56 10      | 1.51         |
| 1904..... | 28 4       | 0.86         | 22 4       | 0.68         | 16 4       | 0.50         | 1921..... | 71 6       | 2.17         | 52 2       | 1.52         | 34 2       | 0.90         |
| 1905..... | 29 8       | 0.90         | 24 4       | 0.74         | 17 4       | 0.53         | 1922..... | 47 11      | 1.46         | 40 3       | 1.18         | 29 1       | 0.77         |
| 1906..... | 28 3       | 0.86         | 24 2       | 0.73         | 18 4       | 0.56         |           | per        | per          | per        | per          | per        | per          |
| 1907..... | 30 7       | 0.93         | 25 1       | 0.76         | 18 10      | 0.57         |           | long       | long         | long       | long         | long       | long         |
| 1908..... | 32 0       | 0.97         | 25 10      | 0.79         | 17 10      | 0.54         |           | cwt.       | cwt.         | cwt.       | cwt.         | cwt.       | cwt.         |
| 1909..... | 36 11      | 0.82         | 26 10      | 0.82         | 18 11      | 0.58         | 1923..... | 9 10       | 1.28         | 9 5        | 0.98         | 9 7        | 0.71         |
|           |            |              |            |              |            |              | 1924..... | 11 6       | 1.50         | 13 1       | 1.36         | 9 9        | 0.72         |
| 1910..... | 31 8       | 0.96         | 23 1       | 0.70         | 17 4       | 0.53         | 1925..... | 12 2       | 1.59         | 11 9       | 1.23         | 9 9        | 0.72         |
| 1911..... | 31 8       | 0.96         | 27 3       | 0.83         | 18 10      | 0.57         | 1926..... | 12 5       | 1.62         | 10 4       | 1.08         | 9 0        | 0.66         |
| 1912..... | 34 9       | 1.06         | 30 8       | 0.93         | 21 6       | 0.65         | 1927..... | 11 6       | 1.50         | 11 10      | 1.23         | 9 2        | 0.68         |
| 1913..... | 31 8       | 0.96         | 27 3       | 0.83         | 19 1       | 0.58         | 1928..... | 10 2       | 1.32         | 11 1       | 1.15         | 10 5       | 0.69         |
| 1914..... | 34 11      | 1.06         | 27 2       | 0.83         | 20 11      | 0.64         | 1929..... | 9 11       | 1.29         | 10 1       | 1.05         | 8 10       | 0.66         |
| 1915..... | 52 10      | 1.61         | 37 4       | 1.13         | 30 2       | 0.92         | 1930..... | 8 0        | 1.04         | 8 0        | 0.83         | 6 3        | 0.46         |
| 1916..... | 58 5       | 1.78         | 53 6       | 1.56         | 33 5       | 0.89         | 1931..... | 5 9        | 0.75         | 8 0        | 0.83         | 6 4        | 0.47         |
| 1917..... | 75 9       | 2.30         | 64 9       | 1.89         | 49 10      | 1.32         | 1932..... | 5 11       | 0.77         | 7 8        | 0.80         | 7 1        | 0.52         |
| 1918..... | 72 10      | 2.22         | 59 0       | 1.72         | 49 4       | 1.31         | 1933..... | 5 4        | 0.69         | 8 0        | 0.83         | 5 7        | 0.41         |
|           |            |              |            |              |            |              | 1934..... | 4 10       | 0.63         | 8 10       | 0.92         | 6 4        | 0.47         |



39.—Monthly Average Prices of Flour, Bran and Shorts at Principal Markets, 1933 and 1934.

SOURCES: For Montreal, the *Gazette*; for Toronto, dealers' quotations; for Winnipeg and U.S. cities, the *Northwestern Miller*, Minneapolis.

NOTE.—The ton=2,000 lb. and the barrel=196 lb.

| Month.         | Montreal.                          |                                        |          |          | Toronto.                         |                                    |          |          |
|----------------|------------------------------------|----------------------------------------|----------|----------|----------------------------------|------------------------------------|----------|----------|
|                | Flour, First Patents. <sup>1</sup> | Flour, Ontario, Delivered at Montreal. | Bran.    | Shorts.  | First Patents Flour (Jute bags). | First Patents Flour (Cotton bags). | Bran.    | Shorts.  |
|                | per brl.                           | per brl.                               | per ton. | per ton. | per brl.                         | per brl.                           | per ton. | per ton. |
| <b>1933.</b>   | \$                                 | \$                                     | \$       | \$       | \$                               | \$                                 | \$       | \$       |
| January.....   | 4.46                               | 2.41                                   | 16.25    | 17.25    | 4.46                             | 4.60                               | 16.25    | 17.50    |
| February.....  | 4.43                               | 2.51                                   | 16.25    | 17.25    | 4.43                             | 4.60                               | 16.75    | 17.75    |
| March.....     | 4.57                               | 2.67                                   | 17.38    | 18.38    | 4.57                             | 4.70                               | 17.50    | 18.50    |
| April.....     | 4.66                               | 3.14                                   | 18.79    | 19.79    | 4.66                             | 4.80                               | 18.88    | 19.88    |
| May.....       | 5.06                               | 3.60                                   | 18.17    | 19.13    | 5.06                             | 5.50                               | 18.60    | 19.60    |
| June.....      | 5.28                               | 3.79                                   | 16.90    | 17.79    | 5.28                             | 5.20                               | 16.62    | 17.63    |
| July.....      | 5.90                               | 4.05                                   | 21.70    | 22.78    | 5.90                             | 6.50                               | 20.80    | 21.80    |
| August.....    | 5.43                               | 3.89                                   | 20.96    | 22.69    | 5.43                             | 5.50                               | 21.50    | 22.50    |
| September..... | 5.12                               | 3.60                                   | 18.17    | 19.17    | 5.12                             | 5.40                               | 19.25    | 20.25    |
| October.....   | 4.84                               | 3.33                                   | 17.56    | 18.56    | 4.84                             | 4.90                               | 18.40    | 19.40    |
| November.....  | 4.97                               | 3.25                                   | 18.52    | 19.52    | 4.97                             | 5.30                               | 19.00    | 20.00    |
| December.....  | 4.94                               | 3.49                                   | 19.25    | 20.25    | 4.94                             | 5.30                               | 19.25    | 20.25    |
| <b>1934.</b>   |                                    |                                        |          |          |                                  |                                    |          |          |
| January.....   | 5.06                               | 3.43                                   | 20.05    | 20.93    | 5.06                             | 5.50                               | 19.60    | 20.60    |
| February.....  | 5.14                               | 3.69                                   | 23.75    | 25.75    | 5.14                             | 5.50                               | 22.66    | 23.66    |
| March.....     | 5.00                               | 3.90                                   | 24.79    | 26.13    | 5.00                             | 5.50                               | 23.66    | 25.66    |
| April.....     | 4.96                               | 3.77                                   | 22.61    | 23.57    | 4.96                             | 5.30                               | 22.75    | 24.00    |
| May.....       | 5.07                               | 4.29                                   | 19.43    | 20.25    | 5.07                             | 5.30                               | 19.80    | 21.00    |
| June.....      | 5.35                               | 4.93                                   | 22.75    | 23.71    | 5.35                             | 5.80                               | 21.75    | 22.75    |
| July.....      | 5.44                               | 4.61                                   | 24.33    | 25.33    | 5.44                             | 6.00                               | 22.40    | 23.40    |
| August.....    | 5.58                               | 4.45                                   | 25.45    | 26.45    | 5.58                             | 6.10                               | 25.25    | 26.25    |
| September..... | 5.42                               | 4.53                                   | 25.00    | 26.00    | 5.42                             | 5.60                               | 24.75    | 26.50    |
| October.....   | 5.26                               | 4.56                                   | 23.94    | 24.94    | 5.26                             | 5.60                               | 23.40    | 24.40    |
| November.....  | 5.34                               | 4.55                                   | 25.45    | 26.45    | 5.34                             | 5.60                               | 24.75    | 25.75    |
| December.....  | 5.35                               | 4.53                                   | 28.09    | 29.09    | 5.35                             | 5.55                               | 27.40    | 28.40    |

| Month.         | Winnipeg. |          |          | Minneapolis. |          |          | Duluth.  |
|----------------|-----------|----------|----------|--------------|----------|----------|----------|
|                | Flour.    | Bran.    | Shorts.  | Flour.       | Bran.    | Shorts.  | Flour.   |
|                | per brl.  | per ton. | per ton. | per brl.     | per ton. | per ton. | per brl. |
| <b>1933.</b>   | \$        | \$       | \$       | \$           | \$       | \$       | \$       |
| January.....   | 3.36      | 13.00    | 14.00    | 4.07         | 8.05     | 7.70     | 3.81     |
| February.....  | 3.43      | 13.00    | 14.00    | 4.03         | 9.25     | 8.50     | 3.58     |
| March.....     | 3.60      | 13.00    | 14.00    | 4.37         | 11.12    | 10.62    | 4.06     |
| April.....     | 3.73      | 13.50    | 14.50    | 4.86         | 11.31    | 10.94    | 4.53     |
| May.....       | 4.32      | 15.00    | 16.00    | 5.35         | 11.82    | 12.03    | 5.30     |
| June.....      | 4.58      | 15.00    | 16.00    | 5.79         | 11.45    | 12.28    | 5.33     |
| July.....      | 5.50      | 20.60    | 21.60    | 7.84         | 17.65    | 19.30    | 7.63     |
| August.....    | 5.25      | 20.50    | 22.50    | 7.60         | 16.45    | 18.63    | 7.32     |
| September..... | 4.87      | 15.75    | 17.50    | 7.45         | 14.00    | 15.31    | 7.14     |
| October.....   | 4.38      | 14.80    | 15.80    | 7.06         | 13.25    | 14.40    | 6.96     |
| November.....  | 4.63      | 15.00    | 16.00    | 7.24         | 13.56    | 14.68    | 7.05     |
| December.....  | 4.37      | 16.00    | 17.00    | 6.97         | 12.69    | 12.62    | 6.85     |
| <b>1934.</b>   |           |          |          |              |          |          |          |
| January.....   | 4.58      | 16.40    | 17.40    | 7.19         | 14.60    | 14.65    | 7.05     |
| February.....  | 4.65      | 20.50    | 22.25    | 7.16         | 16.06    | 15.75    | 7.24     |
| March.....     | 4.55      | 20.00    | 21.00    | 7.06         | 18.75    | 17.63    | 7.13     |
| April.....     | 4.47      | 20.00    | 21.00    | 6.66         | 18.06    | 17.44    | 6.92     |
| May.....       | 4.52      | 18.40    | 19.40    | 7.14         | 17.10    | 16.50    | 7.22     |
| June.....      | 4.75      | 19.00    | 20.00    | 7.43         | 20.88    | 21.50    | 7.90     |
| July.....      | 4.96      | 20.00    | 21.00    | 7.55         | 19.85    | 21.60    | 7.89     |
| August.....    | 5.05      | 22.25    | 23.25    | 7.85         | 22.88    | 23.94    | 8.46     |
| September..... | 4.75      | 23.00    | 24.00    | 7.88         | 22.44    | 22.60    | 8.25     |
| October.....   | 4.80      | 22.20    | 23.20    | 7.67         | 21.45    | 21.50    | 7.92     |
| November.....  | 4.73      | 22.00    | 23.00    | 7.63         | 23.82    | 24.69    | 7.88     |
| December.....  | 4.84      | 25.60    | 26.60    | 7.61         | 28.20    | 30.10    | 7.65     |

<sup>1</sup> Carload lots—Montreal rate points, which included the Toronto district also.

#### 40.—Yearly Average Prices per Cwt. of Canadian Live Stock at Principal Markets, 1932 and 1933.

SOURCE: Markets Intelligence Division, Live Stock Branch, Dominion Department of Agriculture.

| Year and Item.                                | Toronto.  | Montreal. | Winnipeg. | Edmonton. |
|-----------------------------------------------|-----------|-----------|-----------|-----------|
| <b>1932.</b>                                  | <b>\$</b> | <b>\$</b> | <b>\$</b> | <b>\$</b> |
| Steers, up to 1,050 lb., good and choice..... | 5.23      | 5.74      | 4.82      | 4.49      |
| Steers, up to 1,050 lb., medium.....          | 4.70      | 4.57      | 3.75      | 3.73      |
| Steers, up to 1,050 lb., common.....          | 3.55      | 3.15      | 2.48      | 2.61      |
| Steers, over 1,050 lb., good and choice.....  | 5.56      | 5.36      | 4.87      | 4.38      |
| Steers, over 1,050 lb., medium.....           | 4.95      | 4.27      | 3.49      | 3.52      |
| Steers, over 1,050 lb., common.....           | 4.16      | 3.29      | 2.29      | 2.38      |
| Heifers, good and choice.....                 | 5.09      | 4.53      | 4.28      | 3.96      |
| Heifers, medium.....                          | 4.58      | 3.38      | 3.31      | 3.18      |
| Calves, fed, good and choice.....             | 6.95      | 6.03      | 5.75      | 4.96      |
| Calves, fed, medium.....                      | 5.92      | 5.27      | 4.56      | 4.06      |
| Calves, veal, good and choice.....            | 6.52      | 5.08      | 5.09      | 4.54      |
| Calves, veal, common and medium.....          | 4.49      | 3.93      | 3.11      | 2.97      |
| Cows, good.....                               | 3.37      | 3.55      | 3.76      | 2.63      |
| Cows, medium.....                             | 2.84      | 2.79      | 2.06      | 2.10      |
| Bulls, good.....                              | 2.91      | 3.47      | 2.71      | 1.49      |
| Stocker and feeder steers, good.....          | 3.68      | —         | 3.00      | 3.02      |
| Stocker and feeder steers, common.....        | 3.09      | —         | 1.80      | 2.29      |
| Stock cows and heifers, good.....             | —         | —         | 2.43      | 2.74      |
| Stock cows and heifers, common.....           | —         | —         | 1.50      | 1.96      |
| Hogs, selects.....                            | 5.19      | 3.21      | 4.32      | 3.87      |
| Hogs, bacon.....                              | 4.66      | 4.80      | 3.86      | 3.41      |
| Hogs, butchers.....                           | 4.11      | 4.85      | 3.44      | 2.95      |
| Hogs, heavies.....                            | 3.74      | 4.47      | 3.36      | 2.67      |
| Hogs, lights and feeders.....                 | 3.96      | 4.67      | 3.25      | 2.65      |
| Lambs, good handy weights.....                | 6.10      | 5.26      | 5.12      | 4.51      |
| Lambs, common, all weights.....               | 4.62      | 3.74      | 3.26      | 2.86      |
| Sheep, good handy weights.....                | 2.48      | 2.69      | 2.46      | 2.99      |
| <b>1933.</b>                                  |           |           |           |           |
| Steers, up to 1,050 lb., good and choice..... | 4.47      | 4.50      | 3.87      | 3.68      |
| Steers, up to 1,050 lb., medium.....          | 3.90      | 3.75      | 2.89      | 2.73      |
| Steers, up to 1,050 lb., common.....          | 2.88      | 2.56      | 1.75      | 1.82      |
| Steers, over 1,050 lb., good and choice.....  | 4.63      | 4.59      | 3.67      | 3.60      |
| Steers, over 1,050 lb., medium.....           | 4.08      | 3.81      | 2.67      | 2.54      |
| Steers, over 1,050 lb., common.....           | 3.43      | 2.98      | 1.73      | 1.68      |
| Heifers, good and choice.....                 | 4.36      | 3.70      | 3.36      | 3.10      |
| Heifers, medium.....                          | 3.80      | 2.83      | 2.43      | 2.30      |
| Calves, fed, good and choice.....             | 6.11      | 5.39      | 4.87      | 4.06      |
| Calves, fed, medium.....                      | 5.19      | 4.30      | 3.56      | 2.99      |
| Calves, veal, good and choice.....            | 6.20      | 5.20      | 4.84      | 3.80      |
| Calves, veal, common and medium.....          | 4.44      | 3.73      | 2.95      | 2.43      |
| Cows, good.....                               | 2.82      | 2.99      | 2.17      | 1.93      |
| Cows, medium.....                             | 2.44      | 2.54      | 1.58      | 1.49      |
| Bulls, good.....                              | 2.62      | 3.06      | 1.59      | 1.29      |
| Stocker and feeder steers, good.....          | 3.12      | —         | 2.13      | 2.07      |
| Stocker and feeder steers, common.....        | 2.60      | —         | 1.32      | 1.52      |
| Stock cows and heifers, good.....             | —         | —         | 1.84      | 1.95      |
| Stock cows and heifers, common.....           | —         | —         | 1.14      | 1.24      |
| Hogs, selects.....                            | 6.17      | 6.38      | 5.36      | 5.08      |
| Hogs, bacon.....                              | 5.54      | 5.88      | 4.81      | 4.54      |
| Hogs, butchers.....                           | 4.99      | 5.88      | 4.30      | 4.02      |
| Hogs, heavies.....                            | 4.54      | 5.39      | 4.42      | 3.38      |
| Hogs, lights and feeders.....                 | 4.84      | 5.86      | 4.34      | 3.91      |
| Lambs, good handy weights.....                | 6.02      | 6.17      | 5.32      | 4.12      |
| Lambs, common, all weights.....               | 5.02      | 4.74      | 3.16      | 2.41      |
| Sheep, good handy weights.....                | 2.63      | 2.70      | 2.15      | 2.58      |

## 41.—Monthly Average Prices per Cwt. of Canadian Live Stock at Principal Markets, 1933.

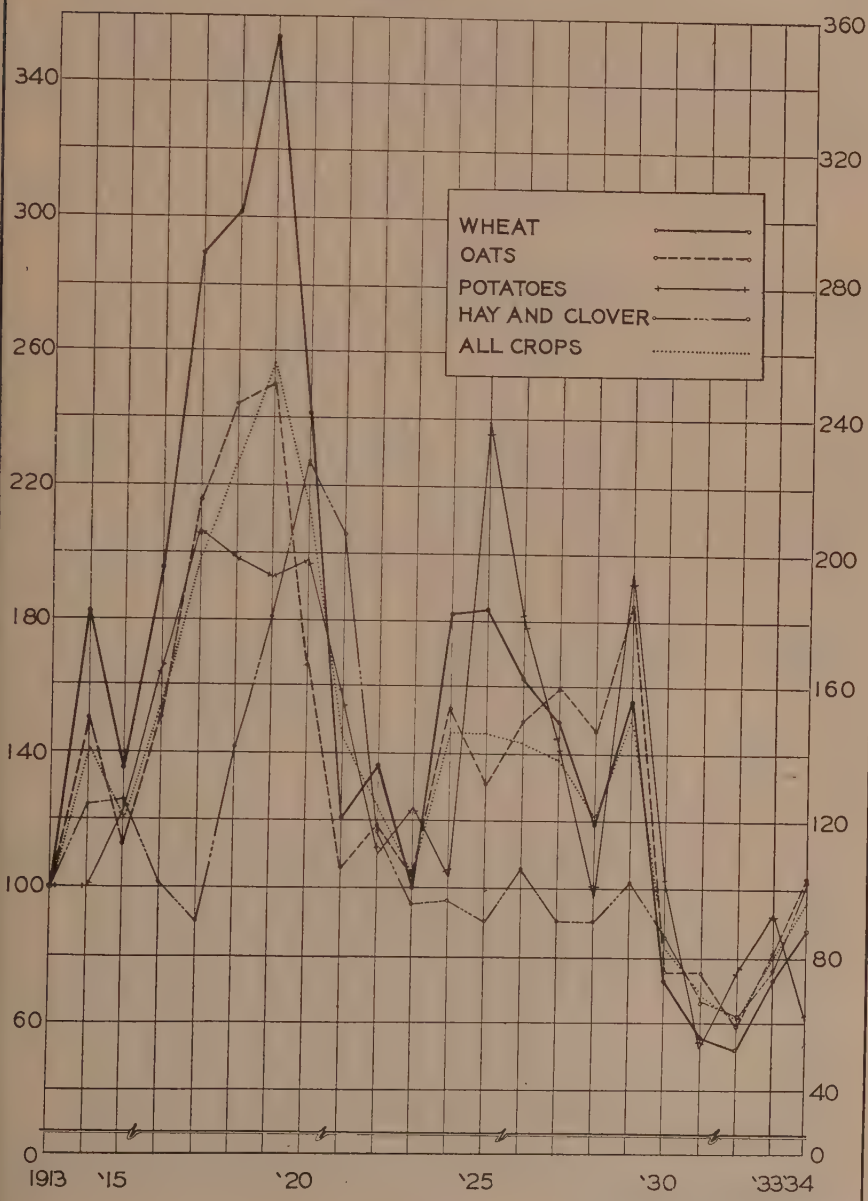
| Market and Item.                             | Jan. | Feb. | Mar. | April. | May.  | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------------------------------------------|------|------|------|--------|-------|-------|-------|------|-------|------|------|------|
|                                              | \$   | \$   | \$   | \$     | \$    | \$    | \$    | \$   | \$    | \$   | \$   | \$   |
| <b>Montreal—</b>                             |      |      |      |        |       |       |       |      |       |      |      |      |
| Steers, up to 1,050 lb., good and choice.... | 4.13 | 4.28 | 4.49 | 4.41   | 5.18  | 5.29  | 4.94  | 4.61 | 4.11  | 3.87 | 4.46 | 5.05 |
| Heifers, good and choice.....                | 3.43 | 3.61 | 3.94 | 4.23   | 4.36  | 4.29  | 4.19  | 3.56 | 3.06  | 3.15 | 3.41 | 3.68 |
| Calves, veal, good and choice.....           | 6.61 | 6.75 | 5.29 | 4.52   | 4.57  | 4.79  | 4.33  | 5.01 | 6.17  | 6.23 | 5.97 | 6.69 |
| Hogs, bacon.....                             | 3.88 | 4.02 | 5.55 | 5.87   | 6.17  | 5.96  | 6.49  | 6.65 | 7.17  | 6.03 | 6.37 | 6.64 |
| Hogs, butchers.....                          | 3.88 | 4.02 | 5.45 | 5.85   | 6.09  | 5.96  | 6.47  | 6.67 | 7.18  | 5.98 | 6.32 | 6.63 |
| Lambs, good handy weights.....               | 5.61 | 6.75 | 6.50 | 5.50   | 12.21 | 9.08  | 7.66  | 5.97 | 5.68  | 5.81 | 6.02 | 6.72 |
| Sheep, good handy weights.....               | 2.26 | 3.13 | 3.60 | 3.38   | 3.77  | 2.76  | 2.73  | 2.73 | 2.13  | 2.24 | 2.24 | 2.79 |
| <b>Toronto—</b>                              |      |      |      |        |       |       |       |      |       |      |      |      |
| Steers, up to 1,050 lb., good and choice.... | 3.94 | 3.75 | 4.21 | 4.72   | 4.94  | 5.01  | 4.66  | 5.47 | 4.34  | 3.98 | 4.09 | 4.42 |
| Heifers, good and choice.....                | 3.92 | 3.75 | 4.15 | 4.64   | 4.96  | 5.00  | 4.64  | 4.51 | 4.35  | 3.97 | 4.08 | 4.40 |
| Calves, veal, good and choice.....           | 6.16 | 6.75 | 6.74 | 6.09   | 5.74  | 5.33  | 4.96  | 6.04 | 6.79  | 6.78 | 6.76 | 6.65 |
| Hogs, bacon.....                             | 3.76 | 3.81 | 5.11 | 5.55   | 5.71  | 5.69  | 6.30  | 6.61 | 6.84  | 5.80 | 6.26 | 6.48 |
| Hogs, butchers.....                          | 3.21 | 3.26 | 4.56 | 5.00   | 5.16  | 5.14  | 5.75  | 6.06 | 6.29  | 5.25 | 5.71 | 5.93 |
| Lambs, good handy weights.....               | 5.92 | 6.03 | 6.42 | 6.88   | 10.63 | 9.32  | 8.22  | 6.34 | 5.64  | 6.09 | 6.31 | 7.71 |
| Sheep, good handy weights.....               | 2.29 | 2.91 | 3.32 | 3.69   | 3.26  | 2.20  | 2.24  | 2.39 | 2.77  | 2.25 | 2.40 | 3.15 |
| <b>Winnipeg—</b>                             |      |      |      |        |       |       |       |      |       |      |      |      |
| Steers, up to 1,050 lb., good and choice.... | 3.60 | 3.22 | 3.75 | 3.83   | 4.44  | 4.42  | 4.52  | 3.71 | 3.32  | 2.88 | 3.42 | 3.85 |
| Heifers, good and choice.....                | 3.46 | 3.07 | 3.45 | 3.57   | 3.94  | 3.77  | 3.79  | 3.23 | 3.19  | 2.74 | 3.22 | 3.43 |
| Calves, veal, good and choice.....           | 6.03 | 5.57 | 5.31 | 5.01   | 5.14  | 4.37  | 3.95  | 4.21 | 4.44  | 4.61 | 5.47 | 6.04 |
| Hogs, bacon.....                             | 2.85 | 3.00 | 4.53 | 4.98   | 5.22  | 5.05  | 5.57  | 5.84 | 6.28  | 5.23 | 5.59 | 5.73 |
| Hogs, butchers.....                          | 2.35 | 2.45 | 4.06 | 4.46   | 4.72  | 4.54  | 5.07  | 5.34 | 5.79  | 4.75 | 5.07 | 5.22 |
| Lambs, good handy weights.....               | 4.64 | 4.79 | 5.24 | 6.81   | 7.93  | 6.95  | 6.45  | 5.05 | 4.98  | 4.93 | 5.21 | 6.09 |
| Sheep, good handy weights.....               | 2.00 | 2.00 | 2.04 | 3.00   | -     | 2.62  | 2.23  | 2.22 | 2.00  | 1.94 | 1.87 | 2.00 |
| <b>Calgary—</b>                              |      |      |      |        |       |       |       |      |       |      |      |      |
| Steers, up to 1,050 lb., good and choice.... | 3.21 | 3.10 | 3.10 | 3.31   | 4.09  | 4.03  | 4.04  | 3.02 | 2.83  | 2.48 | 2.70 | 3.29 |
| Heifers, good and choice.....                | 3.25 | 3.25 | 3.25 | 3.35   | 3.85  | 4.05  | 4.06  | 2.91 | 2.69  | 2.28 | 2.16 | 2.84 |
| Calves, veal, good and choice.....           | 3.69 | 3.85 | 3.98 | 4.22   | 4.50  | 4.43  | 3.46  | 3.06 | 2.80  | 2.74 | 2.67 | 1.88 |
| Hogs, bacon.....                             | 2.73 | 2.77 | 4.15 | 4.78   | 5.02  | 4.74  | 5.33  | 5.47 | 6.20  | 5.06 | 5.34 | 5.55 |
| Hogs, butchers.....                          | 2.22 | 2.28 | 3.65 | 4.26   | 4.54  | 4.22  | 4.83  | 4.97 | 5.73  | 4.57 | 4.87 | 5.04 |
| Lambs, good handy weights.....               | 3.84 | 3.90 | 4.20 | 4.86   | 6.56  | 6.47  | 5.54  | 4.48 | 3.88  | 3.99 | 4.51 | 5.24 |
| Sheep, good handy weights.....               | 2.72 | 2.15 | 2.89 | 3.25   | 2.99  | 5.01  | 3.22  | 2.85 | 2.08  | 2.00 | 2.09 | 2.75 |
| <b>Edmonton—</b>                             |      |      |      |        |       |       |       |      |       |      |      |      |
| Steers, up to 1,050 lb., good and choice.... | 3.44 | 3.36 | 3.42 | 3.75   | 4.11  | 4.11  | 4.24  | 3.25 | 3.12  | 2.66 | 2.98 | 3.67 |
| Heifers, good and choice.....                | 3.21 | 3.04 | 3.08 | 3.43   | 3.67  | 3.76  | 3.96  | 3.05 | 2.58  | 2.43 | 2.73 | 2.84 |
| Calves, veal, good and choice.....           | 4.22 | 4.50 | 4.40 | 4.25   | 4.46  | 3.66  | 3.29  | 3.37 | 3.75  | 3.57 | 3.60 | 3.91 |
| Hogs, bacon.....                             | 2.59 | 2.78 | 4.52 | 4.62   | 4.92  | 4.73  | 5.24  | 5.51 | 5.90  | 4.85 | 5.38 | 5.61 |
| Hogs, butchers.....                          | 2.09 | 2.29 | 4.00 | 4.09   | 4.42  | 4.22  | 4.72  | 5.01 | 5.37  | 4.33 | 4.89 | 5.13 |
| Lambs, good handy weights.....               | 3.75 | 4.00 | 4.38 | 5.09   | 6.38  | 5.02  | 4.44  | 3.70 | 3.79  | 3.82 | 4.05 | 5.58 |
| Sheep, good handy weights.....               | 2.75 | 3.00 | 3.00 | 3.53   | 3.75  | 2.09  | 1.76  | 2.21 | 2.25  | 2.44 | 2.59 | 3.25 |

# 41A.—Monthly Average Prices per Cwt. of Canadian Live Stock at Principal Markets, 1934.

| Market and Item.                              | Jan. | Feb. | Mar. | April. | May.  | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----------------------------------------------|------|------|------|--------|-------|-------|-------|------|-------|------|------|------|
| <b>Montreal—</b>                              | \$   | \$   | \$   | \$     | \$    | \$    | \$    | \$   | \$    | \$   | \$   | \$   |
| Steers, up to 1,050 lb., good and choice..... | 5.33 | 5.65 | 5.62 | 6.03   | 5.76  | 5.51  | 5.36  | 4.86 | 4.50  | 4.30 | 4.34 | 5.13 |
| Heifers, good and choice.....                 | 4.05 | 4.37 | 4.75 | 4.96   | 4.97  | 4.90  | 4.39  | 3.70 | 3.52  | 3.29 | 3.23 | 4.08 |
| Calves, veal, good and choice.....            | 7.33 | 7.99 | 6.87 | 5.28   | 4.81  | 4.85  | 4.62  | 5.09 | 5.64  | 6.51 | 6.91 | 7.17 |
| Hogs, bacon.....                              | 8.30 | 9.67 | 9.36 | 8.40   | 8.68  | 9.37  | 9.39  | 8.76 | 8.73  | 8.19 | 7.84 | 8.00 |
| Hogs, butchers.....                           | 8.15 | 9.65 | 9.25 | 8.09   | 8.18  | 8.89  | 8.88  | 8.29 | 8.31  | 7.70 | 7.34 | 7.51 |
| Lambs, good handy weights.....                | 5.70 | 6.34 | 7.75 | —      | 10.50 | 8.47  | 7.01  | 5.70 | 5.69  | 6.06 | 6.58 | 6.77 |
| Sheep, good handy weights.....                | 2.82 | 3.52 | 4.21 | 4.54   | 3.90  | 3.79  | 2.79  | 2.69 | 2.57  | 2.46 | 2.91 | 2.78 |
| <b>Toronto—</b>                               |      |      |      |        |       |       |       |      |       |      |      |      |
| Steers, up to 1,050 lb., good and choice..... | 4.70 | 5.09 | 5.25 | 5.39   | 5.16  | 5.02  | 4.64  | 4.48 | 4.29  | 4.15 | 4.11 | 4.27 |
| Heifers, good and choice.....                 | 4.57 | 5.04 | 5.22 | 5.37   | 5.14  | 4.99  | 4.53  | 4.27 | 4.19  | 4.13 | 4.07 | 4.26 |
| Calves, veal, good and choice.....            | 7.11 | 8.49 | 7.56 | 6.92   | 6.33  | 5.56  | 4.82  | 5.61 | 6.45  | 6.72 | 6.62 | 7.12 |
| Hogs, bacon.....                              | 8.11 | 9.67 | 9.11 | 8.22   | 8.55  | 9.22  | 9.29  | 8.62 | 8.49  | 8.00 | 7.89 | 8.12 |
| Hogs, butchers.....                           | 7.56 | 9.12 | 8.56 | 7.67   | 8.00  | 8.67  | 8.71  | 8.07 | 7.94  | 7.45 | 7.34 | 7.57 |
| Lambs, good handy weights.....                | 7.21 | 7.93 | 8.00 | 8.55   | 10.55 | 8.88  | 7.62  | 6.34 | 5.77  | 6.15 | 6.73 | 7.26 |
| Sheep, good handy weights.....                | 3.37 | 4.14 | 4.58 | 3.71   | 3.85  | 2.14  | 2.25  | 2.57 | 2.59  | 2.76 | 2.52 | 2.71 |
| <b>Winnipeg—</b>                              |      |      |      |        |       |       |       |      |       |      |      |      |
| Steers, up to 1,050 lb., good and choice..... | 4.06 | 4.54 | 4.87 | 5.04   | 5.03  | 4.86  | 4.37  | 4.11 | 3.50  | 3.36 | 3.47 | 3.86 |
| Heifers, good and choice.....                 | 3.77 | 4.02 | 4.01 | 4.33   | 4.22  | 4.18  | 3.58  | 3.41 | 2.98  | 2.77 | 3.25 | 3.42 |
| Calves, veal, good and choice.....            | 6.35 | 6.60 | 5.99 | 5.42   | 5.07  | 4.21  | 3.61  | 4.15 | 3.79  | 4.01 | 4.76 | 5.72 |
| Hogs, bacon.....                              | 7.62 | 8.76 | 8.25 | 7.41   | 7.73  | 8.36  | 8.27  | 7.74 | 7.65  | 7.17 | 6.80 | 6.97 |
| Hogs, butchers.....                           | 7.13 | 8.26 | 7.75 | 6.89   | 7.22  | 7.86  | 7.76  | 7.22 | 7.18  | 6.66 | 6.30 | 6.46 |
| Lambs, good handy weights.....                | 5.78 | 6.08 | 7.03 | 7.10   | 8.22  | 7.35  | 5.55  | 4.96 | 4.66  | 5.05 | 5.58 | 5.93 |
| Sheep, good handy weights.....                | 2.12 | 2.00 | 2.25 | 2.50   | 3.28  | 2.65  | 2.02  | 1.57 | 1.54  | 1.82 | 2.00 | 2.18 |
| <b>Calgary—</b>                               |      |      |      |        |       |       |       |      |       |      |      |      |
| Steers, up to 1,050 lb., good and choice..... | 3.86 | 4.19 | 4.35 | 4.30   | 4.25  | 4.25  | 3.69  | 3.00 | 3.00  | 3.00 | 3.05 | 3.20 |
| Heifers, good and choice.....                 | 3.25 | 3.48 | 3.77 | 3.80   | 3.80  | 3.78  | 2.80  | 2.75 | 2.75  | 2.71 | 2.60 | 2.60 |
| Calves, veal, good and choice.....            | 3.50 | 4.14 | 4.50 | 4.50   | 4.87  | 4.63  | 3.75  | 3.29 | 2.75  | 2.75 | 2.75 | 2.75 |
| Hogs, bacon.....                              | 7.09 | 8.33 | 8.11 | 6.91   | 7.15  | 7.82  | 7.93  | 7.48 | 7.56  | 7.08 | 6.57 | 6.71 |
| Hogs, butchers.....                           | 6.65 | 7.83 | 7.61 | 6.42   | 6.64  | 7.32  | 7.43  | 6.98 | 7.06  | 6.56 | 6.12 | 6.21 |
| Lambs, good handy weights.....                | 5.12 | 5.49 | 6.21 | 6.25   | 6.67  | 6.58  | 5.20  | 4.10 | 4.21  | 4.46 | 4.68 | 4.75 |
| Sheep, good handy weights.....                | 2.60 | 2.50 | 4.39 | 4.00   | 5.49  | 4.38  | 3.61  | 2.31 | 2.25  | 2.25 | 2.52 | 2.75 |
| <b>Edmonton—</b>                              |      |      |      |        |       |       |       |      |       |      |      |      |
| Steers, up to 1,050 lb., good and choice..... | 3.82 | 4.15 | 4.35 | 4.37   | 4.27  | 4.20  | 3.58  | 3.14 | 2.82  | 2.84 | 2.98 | 3.62 |
| Heifers, good and choice.....                 | 3.13 | 3.35 | 3.65 | 3.50   | 3.50  | 3.50  | 3.42  | 2.65 | 2.50  | 2.57 | 2.77 | 3.27 |
| Calves, veal, good and choice.....            | 4.75 | 4.75 | 5.11 | 4.67   | 4.25  | 3.56  | 2.90  | 3.25 | 3.34  | 3.22 | 3.12 | 3.41 |
| Hogs, bacon.....                              | 7.51 | 8.55 | 7.79 | 7.05   | 7.18  | 7.83  | 7.86  | 7.51 | 7.41  | 6.99 | 6.61 | 6.76 |
| Hogs, butchers.....                           | 6.94 | 8.05 | 7.24 | 6.53   | 6.70  | 7.33  | 7.34  | 7.03 | 6.89  | 6.46 | 6.12 | 6.27 |
| Lambs, good handy weights.....                | 5.15 | 5.33 | 6.27 | 6.94   | 7.00  | 6.09  | 4.10  | 3.76 | 4.18  | 4.38 | 4.41 | 5.11 |
| Sheep, good handy weights.....                | 3.25 | 3.25 | 3.84 | 4.39   | 4.75  | 2.75  | 2.65  | 2.69 | 2.75  | 2.95 | 3.00 | 3.13 |



## INDEX NUMBERS OF AVERAGE PRICES OF FIELD CROPS, 1913-1934

ANNUAL AVERAGE PRICES  
1913 = 100

**Index Numbers of Agricultural Prices.**—Records of the average prices received by farmers for their crops have been collected annually since 1909 through the crop correspondents of the Census and Statistics Office or the Dominion Bureau of Statistics. From these records, annual index numbers have been calculated for each crop and for the field crops as a whole. In calculating the index numbers in the present instance, the base period used is 1926. Index numbers have been calculated of the yields of the various crops from year to year. From these data index numbers of the value of all field crops, weighted according to the quantity produced in each case, have been obtained. The results of these calculations are presented in Table 42.

#### 42.—Index Numbers of Producers' Prices of Agricultural Commodities, for Canada, 1913-34.

NOTE.—Average Prices, 1926 = 100.

For the formulæ used in the calculation see Monthly Bulletin of Agricultural Statistics, January, 1935, p. 18.

| Field Crop.                 | Average Price 1926. <sup>1</sup> | Index Numbers. |             |             |              |              |              |              |              |              |             |             |  |
|-----------------------------|----------------------------------|----------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|--|
|                             |                                  | 1913.          | 1914.       | 1915.       | 1916.        | 1917.        | 1918.        | 1919.        | 1920.        | 1921.        | 1922.       | 1923.       |  |
|                             | \$                               |                |             |             |              |              |              |              |              |              |             |             |  |
| Wheat.....                  | 1.09                             | 61.5           | 111.9       | 83.5        | 120.2        | 178.0        | 185.3        | 217.4        | 148.6        | 74.3         | 78.0        | 61.5        |  |
| Oats.....                   | 0.48                             | 66.7           | 100.0       | 75.0        | 106.3        | 143.8        | 162.5        | 166.7        | 110.4        | 70.8         | 79.2        | 68.8        |  |
| Barley.....                 | 0.52                             | 80.8           | 115.3       | 100.0       | 158.8        | 207.7        | 192.3        | 236.5        | 159.6        | 90.4         | 88.5        | 80.8        |  |
| Rye.....                    | 0.77                             | 85.7           | 107.8       | 100.0       | 142.9        | 210.4        | 193.5        | 181.1        | 172.7        | 93.5         | 75.3        | 63.6        |  |
| Peas.....                   | 1.75                             | 63.4           | 83.4        | 94.3        | 126.9        | 202.3        | 170.9        | 163.4        | 138.3        | 112.0        | 105.1       | 98.3        |  |
| Beans.....                  | 2.64                             | 71.2           | 87.5        | 115.5       | 204.5        | 282.2        | 204.9        | 169.7        | 147.0        | 109.8        | 108.0       | 100.8       |  |
| Buckwheat.....              | 0.87                             | 73.6           | 82.8        | 86.2        | 123.0        | 167.8        | 181.6        | 172.4        | 147.1        | 102.3        | 96.6        | 96.6        |  |
| Mixed grains.....           | 0.66                             | 83.3           | 100.0       | 86.4        | 133.3        | 175.8        | 172.7        | 206.1        | 136.4        | 93.8         | 90.9        | 89.4        |  |
| Flaxseed.....               | 1.62                             | 59.9           | 63.6        | 93.2        | 125.9        | 163.6        | 193.2        | 254.9        | 119.8        | 88.9         | 106.2       | 109.3       |  |
| Corn for husking.....       | 1.00                             | 64.0           | 71.0        | 71.0        | 107.0        | 184.0        | 175.0        | 134.0        | 116.0        | 83.0         | 83.0        | 92.0        |  |
| Potatoes.....               | 1.47                             | 55.8           | 55.8        | 68.0        | 91.8         | 115.0        | 110.9        | 107.5        | 110.2        | 87.1         | 61.2        | 69.4        |  |
| Turnips, etc.....           | 0.60                             | 93.3           | 90.0        | 80.0        | 130.0        | 153.3        | 141.7        | 163.3        | 138.3        | 111.7        | 90.0        | 98.3        |  |
| Hay and clover.....         | 12.13                            | 94.6           | 117.3       | 118.4       | 95.6         | 85.2         | 134.0        | 170.8        | 215.2        | 194.2        | 111.0       | 90.4        |  |
| Grain hay.....              | 10.11                            | —              | —           | —           | —            | —            | —            | 286.8        | 327.6        | —            | 127.3       | 34.3        |  |
| Alfalfa.....                | 13.30                            | 89.1           | 106.5       | 95.3        | 80.4         | 87.1         | 134.1        | 164.3        | 178.8        | 150.0        | 96.0        | 87.1        |  |
| Fodder corn.....            | 4.88                             | 98.0           | 100.0       | 100.0       | 100.0        | 105.3        | 126.0        | 141.8        | 158.8        | 144.5        | 101.8       | 98.4        |  |
| Sugar beets.....            | 6.45                             | 94.9           | 92.9        | 85.3        | 96.1         | 104.7        | 158.9        | 168.4        | 198.4        | 100.8        | 122.2       | 100.5       |  |
| <b>All Field Crops.....</b> | —                                | <b>69.6</b>    | <b>98.3</b> | <b>83.7</b> | <b>106.7</b> | <b>138.7</b> | <b>158.5</b> | <b>178.7</b> | <b>149.3</b> | <b>101.1</b> | <b>86.6</b> | <b>72.4</b> |  |

| Field Crop.                 | 1924.        | 1925.        | 1926.        | 1927.       | 1928.       | 1929.        | 1930.                   | 1931.       | 1932.       | 1933.       | 1934.       |
|-----------------------------|--------------|--------------|--------------|-------------|-------------|--------------|-------------------------|-------------|-------------|-------------|-------------|
| Wheat.....                  | 111.9        | 112.8        | 100.0        | 91.7        | 73.4        | 96.3         | 44.9                    | 34.9        | 32.1        | 44.9        | 54.1        |
| Oats.....                   | 102.1        | 87.5         | 100.0        | 106.3       | 97.9        | 122.9        | 50.0                    | 50.0        | 39.6        | 54.2        | 68.7        |
| Barley.....                 | 134.6        | 101.9        | 100.0        | 126.9       | 107.7       | 113.5        | 38.5 <sup>2</sup>       | 50.0        | 44.2        | 57.7        | 88.5        |
| Rye.....                    | 128.6        | 100.0        | 100.0        | 106.5       | 102.6       | 109.1        | 26.0                    | 36.4        | 35.1        | 49.3        | 62.3        |
| Peas.....                   | 100.0        | 94.3         | 100.0        | 100.6       | 105.7       | 117.7        | 84.0                    | 48.0        | 48.6        | 57.1        | 60.0        |
| Beans.....                  | 104.9        | 97.7         | 100.0        | 87.9        | 135.2       | 125.0        | 86.0                    | 26.1        | 20.8        | 37.5        | 50.4        |
| Buckwheat.....              | 102.3        | 97.7         | 100.0        | 102.3       | 106.9       | 108.0        | 74.7                    | 57.5        | 49.4        | 57.5        | 60.9        |
| Mixed grains.....           | 107.6        | 98.5         | 100.0        | 109.0       | 107.8       | 115.2        | 63.6                    | 56.1        | 50.0        | 60.6        | 62.1        |
| Flaxseed.....               | 119.8        | 114.2        | 100.0        | 95.7        | 98.1        | 146.9        | 58.0 <sup>2</sup>       | 48.8        | 38.3        | 74.1        | 72.2        |
| Corn for husking.....       | 119.0        | 94.0         | 100.0        | 99.0        | 112.0       | 106.0        | 87.0                    | 42.0        | 45.0        | 59.0        | 65.0        |
| Potatoes.....               | 57.8         | 140.1        | 100.0        | 79.6        | 54.4        | 108.2        | 56.5                    | 29.2        | 42.9        | 52.4        | 34.0        |
| Turnips, etc.....           | 73.3         | 93.3         | 100.0        | 76.7        | 78.3        | 88.3         | 73.3                    | 46.7        | 45.0        | 56.7        | 51.7        |
| Hay and clover.....         | 91.3         | 85.3         | 100.0        | 85.8        | 85.5        | 96.0         | 81.0                    | 62.8        | 58.5        | 72.3        | 96.9        |
| Grain hay.....              | 91.5         | 91.5         | 100.0        | 100.0       | 99.7        | 95.0         | 66.6                    | 60.6        | 58.8        | 67.9        | 70.4        |
| Alfalfa.....                | 88.0         | 95.6         | 100.0        | 90.5        | 86.5        | 94.1         | 91.1                    | 78.0        | 64.5        | 69.5        | 95.3        |
| Fodder corn.....            | 104.9        | 82.6         | 100.0        | 91.6        | 96.1        | 106.2        | 101.0                   | 81.4        | 56.4        | 67.2        | 84.4        |
| Sugar beets.....            | 105.3        | 94.3         | 100.0        | 120.8       | 112.4       | 119.2        | 106.5                   | 94.9        | 96.6        | 93.6        | 87.4        |
| <b>All Field Crops.....</b> | <b>102.3</b> | <b>102.1</b> | <b>100.0</b> | <b>96.5</b> | <b>84.6</b> | <b>104.9</b> | <b>57.8<sup>2</sup></b> | <b>46.9</b> | <b>43.1</b> | <b>55.7</b> | <b>67.0</b> |

<sup>1</sup>Prices quoted are per bushel, except for potatoes and turnips, etc., which are per cwt., and the last five items, which are per ton. For details of index numbers by provinces, see Monthly Bulletin of Agricultural Statistics, January, 1935, pp. 18-25. <sup>2</sup>Revised since the publication of the 1933 Year Book.

The general index number fell from 1924 to 1928, especially from 1926 to 1928, recovered strongly in 1929 but declined rapidly to reach the record low of 43.1 for the 1932 crops. All the crops contributed to this sharp decline, although the grain crops dependent upon overseas markets suffered the most. The forage crops and sugar beets, which are used within the country, held up well in price, but climatic conditions did not favour high yields, so the values were lower.

During the past two years there has been a considerable improvement in the prices of these field crops. Grain prices began to rise in May, 1934, which benefited the late marketings of the 1933 crops and prices have held steadily higher during the marketing period of the 1934 crop to date. Fodder and hay prices have risen materially because of the short crops and good demand. In fact, only potatoes, turnips and sugar beets have lagged in the general advance. The general index rose from 43.1 in 1932 to 55.7 in 1933 and 67.0 in 1934.

### Subsection 10.—Agricultural Statistics of the Census.

A selection of the more important agricultural statistics of the Census of 1921 was published at pp. 269-271 of the 1929 edition of the Year Book. Further, certain agricultural statistics of the Prairie Provinces collected at their Quinquennial Census of 1926 were published at pp. 271-273 of the same volume. The complete agricultural statistics of the Census of 1921 are published in Volume V of the publications of the census of that year, while the detailed agricultural statistics of the Census of the Prairie Provinces of 1926 will be found in the reports of the census of that year, issued separately for the provinces of Manitoba, Saskatchewan and Alberta. The agricultural statistics of the Census of 1931 are to be published as Volume VIII, Census of 1931.

A summary of the more important miscellaneous agricultural statistics compiled from this latest census follow in this subsection. These deal with: farm tenure, values, indebtedness and expenditures (Table 43); farm population and farm workers (Table 44); and farm machinery and facilities (Table 45).

**Farm Tenure, Values, Indebtedness and Expenditures.**—Table 43, pp. 296-297, gives final results of the Census of Agriculture taken as of June 1, 1931, regarding tenure of occupied farms and of farm areas, farm values, mortgage indebtedness and expenditures. The outstanding feature of the table is the decrease shown in the number of owned farms and the large increases in the other two classes "partly-owned, partly-rented" and "occupied by tenants" as compared with the Census of 1921. The percentage of all farms fully owned, for the whole of Canada, has decreased from 86.52 p.c. in 1921 to 80.05 p.c. in 1931. The large acreage in the "partly-owned, partly-rented" type in the western provinces is due to the fact that most ranches are composed of small acreages actually owned and additional large acreages of pasture leased from the governments.

Farm values, when compared with 1921, show that for Canada as a whole they have decreased by 20.33 p.c.; most of this decrease has been suffered by land and live stock, the former accounting for 74.9 p.c. of the total decrease and the latter 21.8 p.c. Generally speaking the eastern provinces show a smaller decline in values than the Prairie Provinces.

### 43.—Tenure of Farms by Numbers and Areas, Farm Values, Mortgage Indebtedness and Farm Expenditures, by Provinces, Census of 1931.

| Item.                                                                | Prince<br>Edward<br>Island. | Nova<br>Scotia. | New<br>Brunswick. | Quebec.     | Ontario.      |
|----------------------------------------------------------------------|-----------------------------|-----------------|-------------------|-------------|---------------|
| <b>TENURE OF FARMS, 1931.</b>                                        |                             |                 |                   |             |               |
| Numbers of occupied farms, 1931.. No.                                | 12,865                      | 39,444          | 34,025            | 135,957     | 192,174       |
| Occupied by owner <sup>1</sup> ..... "                               | 12,091                      | 37,176          | 31,933            | 126,563     | 157,427       |
| " part owner, part tenant..... "                                     | 540                         | 1,213           | 1,164             | 4,305       | 13,233        |
| " tenant..... "                                                      | 234                         | 1,055           | 928               | 5,089       | 21,514        |
| Areas of occupied farms.....acre                                     | 1,191,202                   | 4,302,031       | 4,151,596         | 17,445,089  | 22,840,898    |
| Occupied by owner <sup>1</sup> ..... "                               | 1,108,258                   | 4,061,333       | 3,849,881         | 16,134,602  | 18,554,741    |
| " part owner, part tenant..... "                                     | 69,348                      | 161,783         | 207,414           | 780,906     | 2,216,009     |
| " tenant..... "                                                      | 13,596                      | 78,915          | 94,301            | 529,581     | 2,070,148     |
| <b>FARM VALUES, 1931.</b>                                            |                             |                 |                   |             |               |
| Land..... \$                                                         | 23,233,900                  | 38,624,000      | 38,380,300        | 426,213,000 | 585,837,900   |
| Buildings..... \$                                                    | 19,686,500                  | 43,890,500      | 38,680,500        | 257,917,800 | 487,009,300   |
| Implements and machinery..... \$                                     | 8,115,900                   | 10,554,100      | 13,252,500        | 97,269,500  | 151,928,200   |
| Live stock..... \$                                                   | 7,295,729                   | 12,808,810      | 13,217,318        | 95,873,210  | 172,890,362   |
| Totals..... \$                                                       | 58,332,029                  | 105,877,410     | 103,530,618       | 877,273,510 | 1,397,665,762 |
| <b>MORTGAGE INDEBTEDNESS, 1931.</b>                                  |                             |                 |                   |             |               |
| Totals of mortgage debt <sup>2</sup> ..... \$                        | 4,866,700                   | 6,570,000       | 6,485,400         | 96,409,400  | 199,755,100   |
| Numbers of farms reporting mortgage debt.....No.                     | 4,250                       | 4,049           | 5,912             | 41,923      | 70,818        |
| Proportions of total numbers of occupied farms.....p.c.              | 33.03                       | 10.27           | 17.38             | 30.84       | 36.85         |
| <b>Mortgage Indebtedness on Fully-owned Farms<sup>3</sup>, 1931—</b> |                             |                 |                   |             |               |
| Numbers of farms reporting mortgage debt.....No.                     | 4,049                       | 3,848           | 5,623             | 40,167      | 64,263        |
| Proportions of total numbers of fully-owned farms.....p.c.           | 33.49                       | 10.35           | 17.61             | 31.74       | 40.82         |
| Acreages of farms reporting mortgage debt.....acre                   | 390,681                     | 509,070         | 818,929           | 5,565,961   | 7,559,555     |
| Values of farm property (land and buildings)..... \$                 | 13,731,000                  | 14,742,000      | 15,956,700        | 239,856,800 | 403,096,300   |
| Amounts of mortgage debt..... \$                                     | 4,632,700                   | 5,962,500       | 6,104,500         | 91,781,800  | 180,543,500   |
| Ratios of mortgage debt to value.....p.c.                            | 33.74                       | 40.45           | 38.26             | 38.27       | 44.79         |
| Average values of farm property per acre..... \$                     | 35.14                       | 28.92           | 19.48             | 43.09       | 53.32         |
| Average amounts of mortgage debt per acre..... \$                    | 11.85                       | 11.70           | 7.45              | 16.49       | 23.88         |
| <b>FARM EXPENDITURES, 1930.<sup>4</sup></b>                          |                             |                 |                   |             |               |
| Taxes <sup>5</sup> ..... \$                                          | 198,740                     | 1,296,870       | 1,161,720         | 6,674,700   | 17,392,350    |
| Rents..... \$                                                        | 47,260                      | 154,030         | 122,710           | 1,051,750   | 5,737,970     |
| Expenditures for feed..... \$                                        | 321,640                     | 2,782,420       | 1,810,310         | 10,785,280  | 15,096,760    |
| Numbers of farms reporting.....No.                                   | 5,634                       | 28,426          | 19,526            | 84,166      | 104,410       |
| Expenditures for fertilizer..... \$                                  | 950,250                     | 879,540         | 1,495,830         | 1,302,200   | 2,997,060     |
| Numbers of farms reporting.....No.                                   | 9,065                       | 18,504          | 17,431            | 30,480      | 43,741        |
| Expenditures for seed..... \$                                        | 227,370                     | 368,120         | 472,490           | 2,705,840   | 4,595,550     |
| Numbers of farms reporting.....No.                                   | 9,142                       | 17,108          | 19,192            | 81,005      | 111,555       |
| Expenditures for electric light and power..... \$                    | 14,740                      | 99,460          | 72,130            | 452,420     | 1,226,080     |
| Numbers of farms reporting.....No.                                   | 449                         | 3,267           | 2,229             | 17,907      | 24,367        |
| Expenditures for farm labour (cash and board)..... \$                | 1,071,210                   | 2,460,200       | 2,345,170         | 9,454,530   | 29,674,820    |
| Numbers of farms reporting.....No.                                   | 5,566                       | 10,991          | 10,879            | 38,323      | 85,890        |
| Expenditures for spraying chemicals..... \$                          | 110,368                     | 249,677         | 132,155           | 110,527     | 451,341       |

<sup>1</sup> Include farms occupied by managers.<sup>2</sup> Include mortgage debt on owned parts of farms only.<sup>3</sup> The term "fully-owned" as employed here means the owners who own all of their farms and does not include the owned part of the farms partly owned and partly rented.<sup>4</sup> Include taxes on owned farm property only.<sup>5</sup> This item represents "cash" paid in each case and does not include the values of products paid by share tenants.<sup>6</sup> Farm expenditures were taken for 1930, the latest complete calendar year previous to the census.



**43.—Tenure of Farms by Numbers and Areas, Farm Values, Mortgage Indebtedness and Farm Expenditures, by Provinces, Census of 1931—concluded.**

| Item.                                                           | Manitoba.   | Saskatchewan. | Alberta.    | British Columbia. | Total, Nine Provinces.   |
|-----------------------------------------------------------------|-------------|---------------|-------------|-------------------|--------------------------|
| <b>TENURE OF FARMS, 1931.</b>                                   |             |               |             |                   |                          |
| Numbers of occupied farms, 1931...No.                           | 54,199      | 136,472       | 97,408      | 26,079            | 728,623                  |
| Occupied by owner <sup>1</sup> ....."                           | 37,973      | 90,691        | 71,060      | 21,385            | 586,299                  |
| "    part owner, part tenant....."                              | 6,369       | 24,737        | 14,540      | 1,841             | 67,942                   |
| "    tenant....."                                               | 9,857       | 21,044        | 11,808      | 2,853             | 74,382                   |
| Areas of occupied farms.....acre                                | 15,131,685  | 55,673,460    | 38,977,457  | 3,541,541         | 163,254,959 <sup>a</sup> |
| Occupied by owner <sup>1</sup> ....."                           | 9,272,776   | 30,289,620    | 21,423,004  | 2,489,933         | 107,184,148              |
| "    part owner, part tenant....."                              | 2,974,227   | 17,141,336    | 11,736,774  | 744,136           | 36,031,933               |
| "    tenant....."                                               | 2,884,682   | 8,242,504     | 5,817,679   | 307,472           | 20,038,878               |
| <b>FARM VALUES, 1931.</b>                                       |             |               |             |                   |                          |
| Land.....\$                                                     | 200,270,300 | 765,349,000   | 534,092,700 | 98,356,900        | 2,710,358,000            |
| Buildings.....\$                                                | 88,389,200  | 223,794,500   | 137,331,700 | 46,224,300        | 1,342,924,300            |
| Implements and machinery.....\$                                 | 54,847,200  | 185,510,500   | 116,300,600 | 12,885,500        | 650,664,000              |
| Live stock.....\$                                               | 44,635,428  | 98,008,978    | 81,706,858  | 17,370,475        | 543,807,168              |
| Totals.....\$                                                   | 388,142,128 | 1,272,662,978 | 869,431,858 | 174,837,175       | 5,247,753,468            |
| <b>MORTGAGE INDEBTEDNESS, 1931.</b>                             |             |               |             |                   |                          |
| Totals of mortgage debt <sup>2</sup> .....\$                    | 59,223,400  | 175,770,300   | 107,519,000 | 15,177,200        | 671,776,500              |
| Numbers of farms reporting mortgage debt.....No.                | 18,710      | 55,955        | 35,003      | 6,230             | 242,850                  |
| Proportions of total numbers of occupied farms.....p.c.         | 34.52       | 41.00         | 35.93       | 23.89             | 33.33                    |
| Mortgage Indebtedness on Fully-owned Farms <sup>3</sup> , 1931— |             |               |             |                   |                          |
| Numbers of farms reporting mortgage debt.....No.                | 15,067      | 41,757        | 28,152      | 5,534             | 208,460                  |
| Proportions of total numbers of fully-owned farms.....p.c.      | 39.68       | 46.04         | 39.62       | 25.88             | 35.56                    |
| Acres of farms reporting mortgage debt.....acre                 | 4,342,019   | 15,801,350    | 9,144,892   | 569,841           | 44,702,898               |
| Values of farm property (land and buildings).....\$             | 95,353,700  | 344,339,300   | 221,331,100 | 36,886,300        | 1,385,293,200            |
| Amounts of mortgage debt.....\$                                 | 47,162,800  | 131,240,900   | 85,766,400  | 12,821,800        | 566,016,900              |
| Ratios of mortgage debt to value.....p.c.                       | 49.46       | 38.11         | 38.75       | 34.76             | 40.86                    |
| Average values of farm property per acre.....\$                 | 21.96       | 21.79         | 24.20       | 64.73             | 30.99                    |
| Average amounts of mortgage debt per acre.....\$                | 10.86       | 8.31          | 9.38        | 22.50             | 12.66                    |
| <b>FARM EXPENDITURES, 1930.<sup>7</sup></b>                     |             |               |             |                   |                          |
| Taxes <sup>4</sup> .....\$                                      | 4,514,580   | 13,903,520    | 7,621,450   | 1,370,710         | 54,134,640               |
| Rents <sup>5</sup> .....\$                                      | 656,760     | 1,076,350     | 1,145,910   | 1,044,490         | 11,037,230               |
| Expenditures for feed.....\$                                    | 2,222,570   | 4,921,110     | 3,697,580   | 5,645,940         | 47,283,610               |
| Numbers of farms reporting.....No.                              | 19,020      | 54,787        | 23,387      | 15,962            | 335,318                  |
| Expenditures for fertilizer.....\$                              | 16,950      | 22,360        | 16,950      | 440,590           | 8,121,730                |
| Numbers of farms reporting.....No.                              | 191         | 199           | 222         | 5,225             | 125,058                  |
| Expenditures for seed.....\$                                    | 1,264,110   | 3,556,670     | 2,323,520   | 529,030           | 16,042,700               |
| Numbers of farms reporting.....No.                              | 18,455      | 41,609        | 31,409      | 13,331            | 342,806                  |
| Expenditures for electric light and power.....\$                | 73,080      | 114,350       | 101,070     | 224,650           | 2,377,980                |
| Numbers of farms reporting.....No.                              | 1,230       | 1,908         | 1,654       | 5,730             | 58,741                   |
| Expenditures for farm labour (cash and board).....\$            | 9,564,000   | 23,408,040    | 16,606,260  | 5,841,750         | 100,425,980              |
| Numbers of farms reporting.....No.                              | 23,134      | 57,047        | 39,454      | 9,760             | 281,044                  |
| Expenditures for spraying chemicals \$                          | 23,185      | 40,941        | 40,762      | 118,134           | 1,276,990                |

<sup>1</sup> Include farms occupied by managers.<sup>2</sup> Include mortgage debt on owned parts of farms only.<sup>3</sup> The term "fully-owned" as employed here means the owners who own all of their farms and does not include the owned part of the farms partly owned and partly rented.<sup>4</sup> Include taxes on owned farm property only. <sup>5</sup> This item represents "cash" paid in each case and does not include the values of products paid by share tenants. <sup>6</sup> Occupied farm lands in the Northwest Territories and Yukon have an area of approximately 5,000 acres (see Table 1, Chapter XXVIII).<sup>7</sup> Farm expenditures were taken for 1930, the latest complete calendar year previous to the census.

Statistics covering mortgage indebtedness were compiled for the first time for Canada in 1931. Every farm owner was asked for a statement of the mortgage debt on his farm. The instructions to enumerators read as follows: "The mortgage debt to be reported includes not only the debt secured by an instrument called a 'mortgage' but also debts protected by deeds of trust, judgments or by any other legal instrument that partakes of the nature of a mortgage and which has the same legal effect. It has reference only to a debt secured by a mortgage, or by an equivalent legal instrument on lands and buildings". This, however, does not represent all the farmers' obligations as it covers only land operated by the owners themselves. The total mortgage debt reported on owned farm land in Canada amounted to \$671,776,500 on June 1, 1931. This amount was distributed among the provinces as follows: Ontario 29.74 p.c., Saskatchewan 26.16 p.c., Alberta 16.00 p.c., Quebec 14.35 p.c., Manitoba 8.82 p.c., British Columbia 2.26 p.c., Nova Scotia 0.98 p.c., New Brunswick 0.97 p.c., and Prince Edward Island 0.72 p.c.

In order to state the ratio of the mortgage debt to the value of the farms, only the "fully-owned" farms were considered, because in the case of the "partly-owned, partly-rented" farms the value of the farm was stated as a whole, consequently it is impossible to determine the value of the part which was owned. Since the number of fully-owned farms represents over 79 p.c. of the total, the sample is sufficiently large to be representative of the whole. For the Dominion as a whole 35.56 p.c. of the fully-owned farms reported mortgage debts. This percentage was distributed as follows: Prince Edward Island 33.49 p.c., Nova Scotia 10.35 p.c., New Brunswick 17.61 p.c., Quebec 31.74 p.c., Ontario 40.82 p.c., Manitoba 39.68 p.c., Saskatchewan 46.04 p.c., Alberta 39.62 p.c., and British Columbia 25.88 p.c. The ratio of the mortgage debt to the value of the mortgaged farm is as follows: Canada 40.86 p.c., Prince Edward Island 33.74 p.c., Nova Scotia 40.45 p.c., New Brunswick 38.26 p.c., Quebec 38.27 p.c., Ontario 44.79 p.c., Manitoba 49.46 p.c., Saskatchewan 38.11 p.c., Alberta 38.75 p.c., and British Columbia 34.76 p.c.

Statistics of farm expenditures are also given in Table 43. The figures of taxes are for farms occupied by owners only and therefore do not represent the whole amount of taxes paid. There are no comparable figures for previous censuses, since this information was first asked for on the schedules of 1931.

The expenditure for feed has decreased generally in all the provinces from 1921 to 1931, but the indications are that the decreases are not in the quantities bought but in the prices which prevailed. There has been an increase in the use of fertilizers since 1921. This increase has taken place mostly in Ontario and the Maritime Provinces and may be associated with the growing of potatoes and fruits.

Information relating to cash expenditure for electric light and power and for spraying chemicals was obtained for the first time in 1931.

The amount of money expended for labour may be taken as an index of the changes which have taken place in methods of farming during the period 1921-31. Compared with 1921, there has been an increase in money spent for hired labour in the Maritime Provinces, where specialized farming requiring manual labour has been developed during the past decade. There was, however, a decrease in labour costs in most of the other provinces where improved machinery has done away to a large extent with the necessity of using manual labour.

**Farm Population and Farm Workers.**—Table 44 shows the number of farm workers in 1930, made up of male and female members of the family and permanently and temporarily hired men. It should be pointed out in connection with the number of temporarily employed men that these represent help for seasonal work from farm to farm such as fruit-picking, crop harvesting, etc., and therefore the same individual may be counted a number of times from a number of different farms.

Unfortunately, no really comparable statistics are available from the Census of 1921, which recorded only the cost of hired farm help amounting to \$131,677,166 for Canada in 1920 as compared with \$100,425,980 in 1930, but general wage rates were at a very much higher level in 1920 than in 1930. The most instructive figures in Table 44 are those showing the number of members of the family who were farm workers and the number of weeks of hired labour. In Canada as a whole farm workers who were male and female members of the family constituted 33.2 p.c. of the total farm population.

Of the 728,623 farms in Canada only 281,044 or 38.6 p.c. employed hired help. The percentage of farms employing hired help was highest in Ontario with 44.6 p.c. and Prince Edward Island with 43.2 p.c. and lowest in Nova Scotia with 27.9 p.c. and Quebec with 28.2 p.c. On those farms reporting hired labour there was an average of 26.2 weeks of such labour for the whole of Canada, 17.1 weeks in Prince Edward Island, 18.3 in Nova Scotia, 16.9 in New Brunswick, 20.5 in Quebec, 28.3 in Ontario, 31.2 in Manitoba, 27.1 in Saskatchewan, 26.3 in Alberta and 37.5 weeks per farm reporting help in British Columbia. The average cost of hired labour per week was highest in Alberta, British Columbia and Saskatchewan and lowest in Prince Edward Island.

#### 44.—Farm Population, Workers, Weeks of Hired Labour and Cost of Labour, by Provinces, Census of 1931.

NOTE.—The numbers of farms and of farm population are as of June 1, 1931. The remaining statistics apply to the calendar year 1930.

| Item.                                             | Prince<br>Edward<br>Island. | Nova<br>Scotia.    | New<br>Brunswick. | Quebec.              | Ontario.                     |
|---------------------------------------------------|-----------------------------|--------------------|-------------------|----------------------|------------------------------|
| <b>FARM POPULATION,<sup>1</sup> 1931.</b>         |                             |                    |                   |                      |                              |
| Farms reported.....No.                            | 12,865                      | 39,444             | 34,025            | 135,957              | 192,174                      |
| Farm populations....."                            | 55,478                      | 177,690            | 180,214           | 777,017              | 800,960                      |
| Average persons per farm....."                    | 4.31                        | 4.50               | 5.29              | 5.72                 | 4.16                         |
| <b>FARM WORKERS, 1930.</b>                        |                             |                    |                   |                      |                              |
| Members of the family, male.....No.               | 17,518                      | 50,312             | 46,373            | 225,061              | 260,628                      |
| "    female....."                                 | 1,236                       | 4,658              | 3,196             | 29,264               | 20,736                       |
| Permanent hired help, male....."                  | 834                         | 1,612              | 1,415             | 6,865                | 25,276                       |
| Temporary hired help, male....."                  | 13,303                      | 16,700             | 16,179            | 43,727               | 111,163                      |
| Weeks of hired labour....."                       | 95,182                      | 200,798            | 183,739           | 785,761              | 2,428,517                    |
| Costs of labour (including cash and board).....\$ | 1,071,210                   | 2,460,200          | 2,345,170         | 9,454,530            | 29,674,820                   |
| Average costs of labour per week.....\$           | 11.25                       | 12.25              | 12.76             | 12.04                | 12.22                        |
| Farms reporting hired help.....No                 | 5,566                       | 10,991             | 10,879            | 38,323               | 85,890                       |
| Item.                                             | Manitoba.                   | Saskatche-<br>wan. | Alberta.          | British<br>Columbia. | Total,<br>Nine<br>Provinces. |
| <b>FARM POPULATION,<sup>1</sup> 1931.</b>         |                             |                    |                   |                      |                              |
| Farms reported.....No.                            | 54,190                      | 136,472            | 97,408            | 26,079               | 728,623                      |
| Farm populations....."                            | 256,305                     | 564,012            | 375,097           | 102,367              | 3,289,140                    |
| Average persons per farm....."                    | 4.72                        | 4.13               | 3.95              | 3.50                 | 4.51                         |
| <b>FARM WORKERS, 1930.</b>                        |                             |                    |                   |                      |                              |
| Members of the family, male.....No.               | 78,601                      | 172,309            | 120,776           | 32,185               | 1,003,763                    |
| "    female....."                                 | 8,120                       | 11,516             | 8,301             | 2,593                | 89,620                       |
| Permanent hired help, male....."                  | 6,118                       | 11,744             | 7,200             | 3,066                | 64,130                       |
| Temporary hired help, male....."                  | 42,897                      | 107,697            | 84,888            | 27,599               | 464,153                      |
| Weeks of hired labour....."                       | 721,749                     | 1,548,037          | 1,038,418         | 366,470              | 7,368,671                    |
| Costs of labour (including cash and board).....\$ | 9,564,000                   | 23,408,040         | 16,606,260        | 5,841,750            | 100,425,980                  |
| Average costs of labour per week.....\$           | 13.26                       | 15.22              | 16.00             | 15.94                | 13.63                        |
| Farms reporting hired help.....No.                | 23,134                      | 57,047             | 39,454            | 9,760                | 281,044                      |

<sup>1</sup> Includes population on farms located in urban localities. For this distribution of rural and urban farm population by provinces, see Table 43, p. 156.



**Farm Machinery and Facilities, 1931.**—The data of Table 45 record an attempt to determine changes in the general economic condition of agriculture and of the farming population in Canada, represented by mechanical equipment for the farm, conveniences for the household, and communication with the main centres of population. In 1931 information was collected upon a number of items for the first time.

With regard to farm equipment, naturally the Prairie Provinces with their tendency to specialize in grain crops show a greater concentration than other provinces of grain-harvesting machinery such as binders, headers and combines. In Ontario, on the other hand, there were 18.5 silos per 100 farms, 7.8 in British Columbia and 4.5 in Quebec, while the highest percentage in any other province was 0.8 in Manitoba. In 1931, for the whole of Canada, there were 50.7 automobiles or motor trucks per 100 farms as compared to 22.1 in 1921. The proportion was highest in Ontario with 73 vehicles per 100 farms, next in Saskatchewan and British Columbia with 55.7 each, and lowest in Quebec with 23.6. The number of tractors reported increased from 47,455 in 1921 to 105,360 in 1931. The number of tractors per 100 farms in 1931 was 31.7 in Saskatchewan, 26.5 in Manitoba and 24.6 in Alberta, while Ontario, which was the highest of the other provinces, had only 9.8 per 100 farms.

In the Census of 1931, 233,962 farms reported telephones as compared with 231,725 in 1921, Manitoba, Saskatchewan and Alberta showing decreases, while all the other provinces showed increases. In 1931, 73,351 farms, or 10 p.c., reported gas or electric light as compared with 26,842, or 4.2 p.c., in 1921. In British Columbia 24.5 p.c. of the farms had this convenience, 16.8 p.c. in Ontario, 14.0 p.c. in Quebec, 9.5 p.c. in Nova Scotia and only 2.8 p.c. to 3.6 p.c. in the Prairie Provinces. Water facilities were reported for the first time in 1931. In Quebec 31.9 p.c. of the farms had water piped in the kitchen, 31.2 p.c. in British Columbia, 11.2 p.c. in New Brunswick, 10.4 p.c. in Ontario, 10.2 p.c. in Nova Scotia, and only from 1.4 p.c. to 2.1 p.c. in the Prairie Provinces. Comparatively few farms, less than 5 p.c. in Canada, had water piped in bathrooms, the percentage varying from 20 p.c. in British Columbia and 8.2 p.c. in Quebec down to only 1.2 p.c. in Saskatchewan. On the whole there appears to be plenty of room yet for improvement in the provision of farm facilities and household conveniences in Canadian rural life.

No information is available regarding the types of road on which farms were located in 1921, but undoubtedly there was great improvement in this respect between then and 1931. (See Chapter XVIII, Part V, of this volume.) In 1931 the percentage of all farms located on unimproved dirt roads for each of the provinces was: Canada 22.0 p.c.; Prince Edward Island 26.6 p.c.; Nova Scotia 21.4 p.c.; New Brunswick 13.3 p.c.; Quebec 22.2 p.c.; Ontario 9.8 p.c.; Manitoba 30.4 p.c.; Saskatchewan 32.0 p.c.; Alberta 31.8 p.c.; and British Columbia 14.3 p.c.

Questions were asked in the Census of 1931 relating to the distance farms were located from a market town and a railway station. The results regarding the distance from a market town were not very dependable, as there was room for a difference in interpretation concerning what constituted a market town. In the case of distance from a railway station only 6.6 p.c. of all farms in the Dominion reported this as 15 miles or more. By provinces, the farms so reporting were: 0.9 p.c. in Prince Edward Island; 14.6 p.c. in Nova Scotia; 5.3 p.c. in New Brunswick; 8.3 p.c. in Quebec; 2.6 p.c. in Ontario; 3.0 p.c. in Manitoba; 5.4 p.c. in Saskatchewan; 12.8 p.c. in Alberta; and 11.4 p.c. in British Columbia.



## 45.—Farm Machinery, Facilities, Kinds of Road and Distances to Market Town and Railway Station, by Provinces, 1931.

| Item.                         | P.E.I. | N.S.   | N.B.   | Que.    | Ont.    | Man.   | Sask.   | Alta.  | B.C.   | Total,<br>Nine<br>Provinces. |
|-------------------------------|--------|--------|--------|---------|---------|--------|---------|--------|--------|------------------------------|
|                               | No.    | No.    | No.    | No.     | No.     | No.    | No.     | No.    | No.    | No.                          |
| Occupied farms.....           | 12,865 | 39,444 | 34,025 | 135,957 | 192,174 | 54,199 | 136,472 | 97,408 | 26,079 | 728,623                      |
| FARM MACHINERY.               |        |        |        |         |         |        |         |        |        |                              |
| Automobiles.....              | 3,885  | 10,297 | 10,425 | 26,877  | 125,716 | 25,588 | 65,094  | 42,817 | 10,585 | 321,284                      |
| Farms reporting.....          | 3,741  | 9,982  | 9,998  | 25,741  | 115,833 | 24,450 | 62,568  | 41,025 | 10,034 | 303,372                      |
| Binders.....                  | 7,204  | 2,015  | 3,814  | 42,944  | 124,561 | 45,883 | 129,177 | 73,487 | 2,318  | 431,403                      |
| Farms reporting.....          | 7,189  | 2,013  | 3,807  | 41,793  | 116,994 | 35,613 | 98,676  | 61,048 | 2,207  | 369,340                      |
| Combines.....                 | —      | —      | —      | —       | —       | —      | 6,019   | 2,523  | 20     | 8,517                        |
| Farms reporting.....          | —      | —      | —      | —       | —       | —      | 5,919   | 2,461  | 19     | 8,750                        |
| Cream separators.....         | 8,140  | 19,392 | 18,343 | 90,003  | 127,788 | 36,231 | 76,024  | 48,421 | 6,841  | 431,243                      |
| Farms reporting.....          | 8,125  | 19,349 | 18,307 | 89,446  | 127,086 | 36,066 | 75,641  | 48,059 | 6,771  | 428,850                      |
| Electric motors.....          | 184    | 437    | 501    | 3,311   | 9,604   | 854    | 1,702   | 1,087  | 959    | 18,639                       |
| Farms reporting.....          | 156    | 335    | 389    | 2,790   | 7,188   | 676    | 1,426   | 895    | 704    | 14,639                       |
| Gasoline engines.....         | 4,193  | 2,848  | 4,505  | 36,251  | 45,880  | 17,557 | 38,549  | 26,938 | 3,544  | 179,765                      |
| Farms reporting.....          | 3,641  | 2,578  | 4,243  | 34,029  | 40,082  | 13,820 | 32,096  | 22,137 | 3,051  | 155,677                      |
| Headers.....                  | —      | —      | —      | —       | —       | 130    | 2,832   | 1,837  | 5      | 4,805                        |
| Farms reporting.....          | —      | —      | —      | —       | —       | 127    | 2,798   | 1,793  | 5      | 4,723                        |
| Milking machines.....         | 27     | 41     | 76     | 827     | 4,015   | 248    | 414     | 366    | 405    | 6,419                        |
| Farms reporting.....          | 27     | 41     | 76     | 827     | 4,007   | 247    | 414     | 366    | 405    | 6,410                        |
| Motor trucks.....             | 369    | 1,704  | 1,126  | 5,152   | 14,536  | 3,260  | 10,938  | 7,319  | 3,947  | 48,401                       |
| Farms reporting.....          | 356    | 1,633  | 1,093  | 4,939   | 13,875  | 3,123  | 10,559  | 7,080  | 3,707  | 46,365                       |
| Silos.....                    | 44     | 278    | 169    | 6,175   | 35,720  | 467    | 539     | 426    | 2,040  | 45,858                       |
| Farms reporting.....          | 42     | 261    | 164    | 5,822   | 33,269  | 422    | 516     | 379    | 1,659  | 42,534                       |
| Threshing machines.....       | 3,238  | 837    | 3,260  | 39,575  | 8,490   | 10,107 | 27,046  | 12,457 | 534    | 105,544                      |
| Farms reporting.....          | 3,234  | 836    | 3,257  | 39,341  | 8,278   | 10,098 | 26,722  | 12,288 | 518    | 104,482                      |
| Tractors.....                 | 176    | 424    | 289    | 2,417   | 18,993  | 14,366 | 43,308  | 23,985 | 1,402  | 105,360                      |
| Farms reporting.....          | 169    | 415    | 279    | 2,356   | 18,318  | 12,983 | 39,434  | 21,996 | 1,312  | 97,262                       |
| FARMS REPORTING FACILITIES.   |        |        |        |         |         |        |         |        |        |                              |
| Water piped in the kitchen..  | 726    | 4,047  | 3,827  | 43,452  | 20,154  | 1,048  | 1,902   | 2,086  | 8,140  | 85,382                       |
| "    "    bathroom.....       | 492    | 1,689  | 1,310  | 11,170  | 12,179  | 847    | 1,634   | 1,474  | 5,223  | 36,018                       |
| Telephone.....                | 2,777  | 10,266 | 7,126  | 26,464  | 103,932 | 13,111 | 46,746  | 16,622 | 6,918  | 233,962                      |
| Radio.....                    | 1,407  | 4,770  | 2,658  | 8,618   | 41,380  | 9,834  | 27,589  | 17,277 | 6,156  | 119,689                      |
| Electric light or gas.....    | 513    | 3,760  | 2,517  | 19,074  | 32,294  | 1,995  | 4,005   | 2,786  | 6,407  | 73,351                       |
| KINDS OF ROAD.                |        |        |        |         |         |        |         |        |        |                              |
| All farms reporting.....      | 12,702 | 38,918 | 33,686 | 134,036 | 189,406 | 52,829 | 132,932 | 95,696 | 24,658 | 714,863                      |
| Farms located on:             |        |        |        |         |         |        |         |        |        |                              |
| Asphalt.....                  | 44     | 24     | 28     | 3,552   | 5,617   | 338    | 33      | 36     | 1,568  | 11,240                       |
| Concrete.....                 | 7      | 27     | 8      | 653     | 7,877   | 105    | 6       | 6      | 206    | 8,895                        |
| Macadam.....                  | 2      | 134    | 241    | 9,051   | 12,500  | 14     | 41      | —      | 1,463  | 23,446                       |
| Gravel.....                   | 244    | 18,134 | 20,925 | 62,170  | 125,131 | 8,336  | 3,552   | 2,572  | 13,072 | 254,136                      |
| Improved dirt.....            | 8,981  | 12,150 | 7,971  | 28,429  | 19,550  | 27,541 | 85,665  | 62,074 | 4,610  | 256,971                      |
| Unimproved dirt.....          | 3,424  | 8,449  | 4,513  | 30,181  | 18,731  | 16,495 | 43,635  | 31,008 | 3,739  | 160,175                      |
| DISTANCES TO MARKET TOWN.     |        |        |        |         |         |        |         |        |        |                              |
| Under 5 miles.....            | 5,259  | 10,471 | 5,516  | 18,054  | 66,478  | 22,230 | 47,605  | 26,561 | 7,962  | 210,136                      |
| 5-9 miles.....                | 4,088  | 8,755  | 6,514  | 21,664  | 62,597  | 19,222 | 53,233  | 33,668 | 5,493  | 215,234                      |
| 10-14 ".....                  | 1,668  | 5,926  | 4,659  | 17,638  | 30,582  | 6,187  | 22,159  | 18,917 | 3,469  | 111,205                      |
| 15-24 ".....                  | 979    | 6,311  | 5,548  | 27,695  | 19,662  | 3,132  | 8,107   | 10,948 | 3,843  | 86,225                       |
| 25 miles and over.....        | 512    | 7,325  | 11,259 | 47,240  | 9,330   | 2,234  | 1,871   | 5,266  | 4,146  | 89,183                       |
| Not reporting.....            | 359    | 656    | 529    | 3,666   | 3,525   | 1,194  | 3,497   | 2,048  | 1,166  | 16,640                       |
| DISTANCES TO RAILWAY STATION. |        |        |        |         |         |        |         |        |        |                              |
| Under 5 miles.....            | 8,685  | 19,653 | 18,957 | 75,192  | 120,365 | 28,629 | 53,193  | 32,687 | 16,789 | 374,150                      |
| 5-9 miles.....                | 3,318  | 9,142  | 9,578  | 33,888  | 53,133  | 18,353 | 52,544  | 33,556 | 4,116  | 217,628                      |
| 10-14 ".....                  | 639    | 3,876  | 3,254  | 12,428  | 10,060  | 4,274  | 19,458  | 16,697 | 1,414  | 72,100                       |
| 15-24 ".....                  | 114    | 2,822  | 1,372  | 7,948   | 3,412   | 1,221  | 6,056   | 8,961  | 1,283  | 33,189                       |
| 25 miles and over.....        | —      | 2,931  | 419    | 3,305   | 1,617   | 396    | 1,567   | 3,483  | 1,690  | 15,208                       |
| Not reporting.....            | 109    | 1,020  | 445    | 3,196   | 3,587   | 1,326  | 3,854   | 2,024  | 787    | 16,348                       |

### Subsection 11.—Miscellaneous Agricultural Statistics.

**Agricultural Irrigation.\***—The surface waters in Alberta are vested in the Crown and are administered by the Water Resources Office under the Water Resources Act. All matters affecting the control of water supply generally, as well as the inspection and authorization of works for the use of water for domestic, municipal, industrial, irrigation and other purposes and the granting of licences for such purposes are dealt with thereunder. The Director of Water Resources at Edmonton is responsible for all field administration. The Irrigation Districts Act of Alberta (R.S.A., 1922, c. 114) and amending statutes provide for the formation of irrigation districts, and authorize the raising of loans under by-laws adopted by the voters of the district. Table 46 gives statistics of the larger irrigation projects in Alberta for the years 1932 and 1933.

**46.—Major Irrigation Projects in Southern Alberta, 1932 and 1933.**

| Project.                | Source of Supply.   | 1932.           |                   |                         | 1933.           |                   |                         |
|-------------------------|---------------------|-----------------|-------------------|-------------------------|-----------------|-------------------|-------------------------|
|                         |                     | Irrigable Area. | Length of Canals. | Area Irrigated in 1932. | Irrigable Area. | Length of Canals. | Area Irrigated in 1933. |
|                         |                     | acres.          | miles.            | acres.                  | acres.          | miles.            | acres.                  |
| C.P.R. Western.....     | Bow river....       | 218,980         | 1,566             | 8,680                   | 218,980         | 1,566             | 40,812                  |
| C.P.R. Eastern.....     | Bow river....       | 400,000         | 2,500             | 90,651                  | 250,000         | 2,000             | 96,019                  |
| C.P.R. Lethbridge.....  | St. Mary river      | 89,000          | 196               | 68,000                  | 89,000          | 196               | 70,000                  |
| Canada Land.....        | Bow river....       | 130,000         | 453               | 24,254                  | 130,000         | 453               | 20,749                  |
| Taber.....              | St. Mary river      | 21,499          | 96                | 16,988                  | 21,499          | 96                | 18,854                  |
| Lethbridge Northern.... | Oldman river.       | 99,143          | 573               | 41,842                  | 98,769          | 573               | 62,416                  |
| United.....             | Belly river....     | 34,166          | 175               | 11,500                  | 34,166          | 175               | 10,500                  |
| New West.....           | Bow river....       | 4,563           | 23                | 2,125                   | 4,563           | 23                | 1,691                   |
| Magrath.....            | St. Mary river      | 6,975           | 90                | 4,000                   | 6,975           | 90                | 4,000                   |
| Raymond.....            | St. Mary river      | 15,129          | 16                | 10,000                  | 15,129          | 16                | 12,000                  |
| Mountain View.....      | Belly river....     | 3,569           | 15                | 800                     | 3,569           | 15                | 1,168                   |
| Little Bow.....         | Highwood river..... | 3,092           | 2.5               | 280                     | 3,092           | 2.5               | 300                     |

The Canadian Pacific Railway Co. has constructed, and is operating in Alberta, three large projects known as the Eastern, Western and Lethbridge sections, the last named being the oldest irrigation project in Alberta. The area irrigable by these projects is 557,980 acres. By agreement with the Canadian Pacific Railway Co., the Taber, Magrath and Raymond irrigation districts procure their water supply from the main canal of the Lethbridge section, a further 43,603 acres being served by the canals of these districts.

\*Revised by L. C. Charlesworth, Irrigation Council, Water Resources Office, Edmonton, Alberta.

The total irrigable area served by the Canada Land and Irrigation Co.'s project is 130,000 acres, while the New West irrigation district, by agreement with the Canada Land and Irrigation Co., receives a water supply for a further irrigable area of 4,563 acres.

In addition to the irrigated tracts enumerated in the foregoing table, there were, at Dec. 31, 1932, about 343 privately owned projects in Alberta, with a possible irrigable area of 54,930 acres, and at Dec. 31, 1933, 348 projects with a possible irrigable area of 55,617 acres.

**Average Value of Farm Lands.**—Statistics showing the average value of farm lands in Canada in 1910 and from 1917 to 1934, are given in Table 47. The values are as estimated by crop correspondents and show the rise in land values between 1910 and 1920, the general decline with moderate fluctuations from 1920 to 1929, and the rapid fall since 1929 to a point below the 1910 level for the country as a whole.

**47.—Average Values per Acre of Occupied Farm Lands<sup>1</sup> in Canada, as Estimated by Crop Correspondents, 1910 and 1917-34.**

| Province.     | 1910 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924            | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 |
|---------------|------|------|------|------|------|------|------|------|-----------------|------|------|------|------|------|------|------|------|------|------|
|               | \$   | \$   | \$   | \$   | \$   | \$   | \$   | \$   | \$              | \$   | \$   | \$   | \$   | \$   | \$   | \$   | \$   | \$   | \$   |
| P.E.I.....    | 31   | 44   | 44   | 51   | 49   | 46   | 45   | 51   | 40              | 45   | 46   | 41   | 44   | 43   | 42   | 34   | 31   | 32   | 34   |
| N.S.....      | 25   | 34   | 36   | 41   | 43   | 35   | 34   | 31   | 33              | 37   | 36   | 37   | 34   | 36   | 30   | 29   | 28   | 26   | 27   |
| N.B.....      | 19   | 29   | 35   | 32   | 35   | 28   | 32   | 32   | 27              | 34   | 31   | 30   | 31   | 35   | 28   | 26   | 24   | 24   | 24   |
| Quebec.....   | 43   | 53   | 57   | 72   | 70   | 59   | 58   | 56   | 53              | 54   | 53   | 57   | 54   | 55   | 48   | 40   | 37   | 36   | 34   |
| Ontario.....  | 48   | 55   | 57   | 66   | 70   | 63   | 64   | 64   | 65              | 67   | 62   | 65   | 62   | 60   | 52   | 46   | 33   | 38   | 41   |
| Manitoba..... | 29   | 31   | 32   | 35   | 39   | 35   | 32   | 28   | 28              | 29   | 29   | 27   | 27   | 26   | 22   | 18   | 16   | 16   | 17   |
| Sask.....     | 22   | 26   | 29   | 32   | 32   | 29   | 28   | 24   | 24 <sup>2</sup> | 24   | 25   | 26   | 27   | 25   | 22   | 19   | 16   | 16   | 16   |
| Alberta.....  | 24   | 27   | 28   | 29   | 32   | 28   | 24   | 24   | 25              | 26   | 26   | 26   | 28   | 28   | 24   | 20   | 17   | 16   | 16   |
| B.C.....      | 74   | 149  | 149  | 174  | 175  | 122  | 120  | 100  | 96              | 88   | 80   | 89   | 90   | 90   | 76   | 74   | 65   | 63   | 60   |
| Canada.....   | 33   | 38   | 41   | 46   | 48   | 40   | 40   | 37   | 37              | 38   | 37   | 38   | 38   | 37   | 32   | 28   | 23   | 24   | 23   |

<sup>1</sup> Orchards and fruit lands, 1934, with 1933 in parentheses: Nova Scotia \$77 (\$75); Ontario \$84 (\$89); British Columbia \$280 (\$270).

<sup>2</sup> Actual returns were not collected from crop correspondents in Saskatchewan for 1924, and the estimate of 1924 is interpolated.

### Subsection 12.—International Agricultural Statistics.

**World Production of Cereals and Potatoes.**—Table 48, constructed from data published by the International Institute of Agriculture, shows the areas and yields of wheat, oats, barley, rye, corn and potatoes for the years 1933 and 1934 in countries of the Northern Hemisphere, and for the years 1933-34 and 1934-35 in countries of the Southern Hemisphere. The annual average acreages and yields are also given for the five-year period, 1928-32 (1928-29 to 1932-33), and the areas and yields of 1934 (1934-35) are compared in percentages with those of the five-year period.

**48.—Acreages and Yields of Cereals and Potatoes in Countries of the World, 1933 and 1934, with Five-Year Average for 1928-32.**

| Crop and Country.                            | Acreages.          |                    |                    |                          | Yields.          |                  |                  |                          |
|----------------------------------------------|--------------------|--------------------|--------------------|--------------------------|------------------|------------------|------------------|--------------------------|
|                                              | 1933.              | 1934.              | Average 1928-32.   | 1934 in p.c. of Average. | 1933.            | 1934.            | Average 1928-32. | 1934 in p.c. of Average. |
|                                              | 000 acres.         | 000 acres.         | 000 acres.         | p.c.                     | 000 bush.        | 000 bush.        | 000 bush.        | p.c.                     |
| <b>Wheat—</b>                                |                    |                    |                    |                          |                  |                  |                  |                          |
| <b>NORTHERN HEMISPHERE.</b>                  |                    |                    |                    |                          |                  |                  |                  |                          |
| <b>EUROPE.</b>                               |                    |                    |                    |                          |                  |                  |                  |                          |
| Austria.....                                 | 543                | 568                | 518                | 109.8                    | 14,615           | 13,239           | 11,937           | 110.9                    |
| Belgium.....                                 | 872                | 544                | 389                | 140.0                    | 15,057           | 14,322           | 14,574           | 98.3                     |
| Bulgaria.....                                | 3,097              | 3,089              | 2,931              | 105.4                    | 55,453           | 41,577           | 50,324           | 82.6                     |
| Czechoslovakia.....                          | 2,272              | 2,301              | 1,993              | 115.4                    | 72,921           | 50,013           | 50,013           | 100.0                    |
| Denmark.....                                 | 261                | 282                | 253                | 111.5                    | 11,543           | 12,493           | 11,050           | 113.1                    |
| Estonia.....                                 | 155                | 161                | 94                 | 170.8                    | 2,451            | 3,086            | 1,551            | 199.0                    |
| Finland.....                                 | 91                 | 104                | 44                 | 237.6                    | 2,460            | 2,612            | 1,046            | 249.7                    |
| France.....                                  | 13,503             | 13,109             | 13,168             | 99.6                     | 362,328          | 330,688          | 288,854          | 114.5                    |
| Germany.....                                 | 5,727              | 5,431              | 4,723              | 115.0                    | 205,918          | 166,539          | 148,649          | 112.0                    |
| Great Britain and North-<br>ern Ireland..... | 1,744              | 1,866              | 1,368              | 136.4                    | 62,373           | 69,625           | 44,638           | 156.0                    |
| Greece.....                                  | 1,712 <sup>3</sup> | 1,951 <sup>2</sup> | 1,391 <sup>2</sup> | —                        | 28,385           | 31,359           | 12,505           | 250.8                    |
| Hungary.....                                 | 3,924              | 3,921              | 3,969              | 98.8                     | 96,356           | 61,447           | 79,109           | 77.7                     |
| Irish Free State.....                        | 50                 | 93                 | 26                 | 357.7                    | 1,983            | 3,360            | 1,014            | 331.2                    |
| Italy.....                                   | 12,561             | 12,236             | 12,009             | 101.9                    | 297,985          | 232,686          | 244,024          | 95.4                     |
| Latvia.....                                  | 309                | 351                | 192                | 183.1                    | 6,725            | 8,051            | 3,515            | 229.0                    |
| Lithuania.....                               | 499                | 514                | 479                | 107.3                    | 8,192            | 9,907            | 8,490            | 116.7                    |
| Luxemburg.....                               | 34                 | 40                 | 27                 | 145.8                    | 995              | 1,061            | 511              | 207.5                    |
| Malta.....                                   | 10                 | 9                  | 9                  | 101.0                    | 305              | 310              | 293              | 106.1                    |
| Netherlands.....                             | 338                | 359                | 178                | 201.2                    | 15,325           | 17,196           | 7,689            | 223.6                    |
| Norway.....                                  | 28                 | 46                 | 29                 | 160.1                    | 755              | 1,168            | 722              | 161.7                    |
| Poland.....                                  | 4,187              | 4,385              | 3,908              | 112.2                    | 79,883           | 63,467           | 68,018           | 93.3                     |
| Portugal.....                                | 1,424              | —                  | 1,203              | —                        | 15,073           | 20,486           | 13,837           | 148.1                    |
| Roumania.....                                | 7,701              | 7,610              | 7,579              | 100.4                    | 119,071          | 77,313           | 107,380          | 72.0                     |
| Russia..... {Winter                          | 26,688             | 29,785             | 22,734             | 131.0                    | 429,894          | —                | 286,229          | —                        |
| {Spring                                      | 55,352             | —                  | 57,725             | —                        | 588,992          | —                | 511,243          | —                        |
| Spain.....                                   | 11,047             | 11,101             | 10,964             | 101.2                    | 138,234          | 173,600          | 148,443          | 116.9                    |
| Sweden.....                                  | 799                | 742                | 642                | 115.5                    | 29,203           | 29,578           | 20,339           | 145.4                    |
| Switzerland.....                             | 186                | 211                | 178                | 118.9                    | 6,623            | 6,677            | 5,500            | 121.4                    |
| Turkey.....                                  | 7,257              | 6,871              | 7,357              | 93.4                     | 99,636           | 88,546           | 85,806           | 103.2                    |
| Yugoslavia.....                              | 5,257              | 5,002              | 5,214              | 95.9                     | 96,581           | 68,328           | 86,170           | 79.3                     |
| <b>AMERICA.</b>                              |                    |                    |                    |                          |                  |                  |                  |                          |
| Canada.....                                  | 25,991             | 23,986             | 25,695             | 93.3                     | 281,892          | 275,849          | 408,351          | 67.6                     |
| Mexico.....                                  | 1,173              | 1,179              | 1,279              | 92.2                     | 12,121           | 10,104           | 11,939           | 84.6                     |
| United States.....                           | 47,910             | 42,235             | 59,903             | 70.5                     | 528,975          | 496,469          | 860,228          | 57.7                     |
| <b>ASIA.</b>                                 |                    |                    |                    |                          |                  |                  |                  |                          |
| Korea.....                                   | 790                | 789                | 846                | 93.3                     | 8,887            | 9,324            | 8,563            | 108.9                    |
| India.....                                   | 32,970             | 36,062             | 32,356             | 111.5                    | 352,703          | 349,365          | 340,032          | 102.7                    |
| Japan.....                                   | 1,509              | 1,587              | 1,219              | 130.3                    | 40,376           | 45,577           | 30,614           | 148.9                    |
| Syria and Lebanon.....                       | 1,212              | 1,168              | 1,148              | 101.8                    | 13,476           | 14,540           | 13,403           | 108.5                    |
| <b>AFRICA.</b>                               |                    |                    |                    |                          |                  |                  |                  |                          |
| Algeria.....                                 | 3,993              | 4,007              | 3,771              | 106.2                    | 31,998           | 39,738           | 30,195           | 131.6                    |
| Cyrenaica.....                               | 13                 | 22                 | 20                 | 110.1                    | 31               | 179              | 86               | 207.9                    |
| Egypt.....                                   | 1,426              | 1,442              | 1,628              | 88.6                     | 39,951           | 37,276           | 44,187           | 84.4                     |
| Eritrea.....                                 | 9                  | 11                 | 17                 | 64.3                     | 110              | 147              | 40               | 366.3                    |
| French Morocco.....                          | 3,209              | 2,842              | 2,776              | 102.4                    | 28,902           | 31,232           | 27,113           | 115.2                    |
| Kenya.....                                   | 35                 | 43                 | 58                 | 74.0                     | 485              | 653              | 578              | 113.0                    |
| Tunis.....                                   | 1,754              | 1,903              | 2,005              | 94.9                     | 9,186            | 15,800           | 13,566           | 102.9                    |
| <b>SOUTHERN HEMISPHERE.<sup>1</sup></b>      |                    |                    |                    |                          |                  |                  |                  |                          |
| Argentina.....                               | 18,041             | 17,199             | 18,336             | 93.8                     | 286,119          | 252,058          | 240,898          | 104.6                    |
| Australia.....                               | 14,992             | 12,965             | 15,698             | 82.6                     | 175,370          | 137,000          | 180,940          | 75.7                     |
| Chile.....                                   | 2,104              | 2,264              | 1,606              | 140.9                    | 35,307           | —                | 26,865           | —                        |
| New Zealand.....                             | 295                | 229                | 267                | 85.8                     | —                | —                | —                | —                        |
| Union of South Africa.....                   | 1,257              | 1,523              | 1,288              | 118.2                    | 10,227           | 13,533           | 10,300           | 131.4                    |
| Uruguay.....                                 | 1,189              | 970                | 1,034              | 93.8                     | 14,674           | —                | 9,899            | —                        |
| <b>Totals,<sup>4</sup> 43 Countries.....</b> | <b>238,236</b>     | <b>229,909</b>     | <b>246,281</b>     | <b>93.4</b>              | <b>3,623,850</b> | <b>3,275,733</b> | <b>3,710,692</b> | <b>88.3</b>              |

<sup>1</sup> The statistics of the Southern Hemisphere are given for the years 1933-34 and 1934-35; the averages are for the five-year period 1928-29 to 1932-33 and the percentage columns give 1934-35 figures as percentages of the averages. <sup>2</sup> Area sown. <sup>3</sup> Area harvested. <sup>4</sup> Totals include only countries for which information is complete throughout.



48.—Acreages and Yields of Cereals and Potatoes in Countries of the World, 1933 and 1934, with Five-Year Averages for 1928-32—continued.

| Crop and Country.                            | Acreages.        |                  |                     |                                | Yields.          |                  |                     |                                |
|----------------------------------------------|------------------|------------------|---------------------|--------------------------------|------------------|------------------|---------------------|--------------------------------|
|                                              | 1933.            | 1934.            | Average<br>1928-32. | 1934<br>in p.c.<br>of Average. | 1933.            | 1934.            | Average<br>1928-32. | 1934<br>in p.c.<br>of Average. |
|                                              | 000<br>acres.    | 000<br>acres.    | 000<br>acres.       | p.c.                           | 000<br>bush.     | 000<br>bush.     | 000<br>bush.        | p.c.                           |
| <b>Oats—</b>                                 |                  |                  |                     |                                |                  |                  |                     |                                |
| <b>NORTHERN HEMISPHERE.</b>                  |                  |                  |                     |                                |                  |                  |                     |                                |
| <b>EUROPE.</b>                               |                  |                  |                     |                                |                  |                  |                     |                                |
| Austria.....                                 | 755              | 743              | 757                 | 98.1                           | 34,639           | 34,482           | 28,051              | 122.9                          |
| Belgium.....                                 | 733              | 735              | 705                 | 104.2                          | 57,216           | 47,135           | 47,801              | 98.6                           |
| Bulgaria.....                                | 327              | 312              | 322                 | 96.9                           | 8,948            | 5,032            | 7,436               | 67.7                           |
| Czechoslovakia.....                          | 1,976            | 1,936            | 2,060               | 94.0                           | 108,655          | 81,224           | 98,016              | 82.9                           |
| Denmark.....                                 | 943              | 943              | 972                 | 97.1                           | 68,658           | 67,516           | 70,024              | 96.4                           |
| Estonia.....                                 | 343              | 341              | 357                 | 95.6                           | 8,015            | 10,934           | 9,645               | 113.4                          |
| Finland.....                                 | 1,130            | 1,132            | 1,108               | 102.1                          | 43,783           | 53,090           | 42,038              | 126.3                          |
| France.....                                  | 8,315            | 8,127            | 8,512               | 95.5                           | 390,883          | 286,239          | 329,516             | 86.9                           |
| Germany.....                                 | 7,864            | 7,773            | 8,483               | 91.6                           | 478,986          | 375,634          | 453,187             | 82.9                           |
| Great Britain and North-<br>ern Ireland..... | 2,638            | 2,498            | 2,891               | 86.4                           | 144,871          | 133,977          | 162,752             | 82.3                           |
| Greece.....                                  | 341 <sup>3</sup> | 351 <sup>2</sup> | 308 <sup>3</sup>    | —                              | 9,257            | 8,634            | 5,486               | 157.4                          |
| Hungary.....                                 | 570              | 567              | 636                 | 89.2                           | 24,637           | 15,217           | 21,789              | 69.8                           |
| Irish Free State.....                        | 635              | 583              | 643                 | 90.7                           | 43,693           | 34,650           | 43,496              | 79.7                           |
| Italy.....                                   | 1,107            | 1,063            | 1,218               | 87.3                           | 39,562           | 34,297           | 42,908              | 79.9                           |
| Latvia.....                                  | 758              | 742              | 745                 | 99.5                           | 22,783           | 26,770           | 20,574              | 130.1                          |
| Lithuania.....                               | 848              | 811              | 851                 | 95.3                           | 22,776           | 25,105           | 26,031              | 96.4                           |
| Luxemburg.....                               | 68               | 68               | 73                  | 93.3                           | 3,548            | 3,209            | 3,054               | 105.1                          |
| Netherlands.....                             | 337              | 321              | 372                 | 86.3                           | 20,004           | 18,119           | 21,984              | 82.4                           |
| Norway.....                                  | 242              | 226              | 239                 | 94.6                           | 12,416           | 12,157           | 12,254              | 99.2                           |
| Poland.....                                  | 5,447            | 5,463            | 5,342               | 102.3                          | 184,839          | 156,718          | 172,218             | 81.0                           |
| Portugal.....                                | 413              | —                | 444                 | —                              | 8,636            | 5,340            | 6,215               | 85.9                           |
| Roumania.....                                | 2,050            | 2,044            | 2,510               | 81.4                           | 55,558           | 40,534           | 66,265              | 61.2                           |
| Spain.....                                   | 1,894            | 1,877            | 1,853               | 101.3                          | 40,972           | 51,969           | 46,060              | 112.8                          |
| Sweden.....                                  | 1,541            | 1,696            | 1,652               | 102.7                          | 73,202           | 81,364           | 78,730              | 103.3                          |
| Switzerland.....                             | 40               | 25               | 47                  | 52.6                           | 2,545            | 1,404            | 2,595               | 54.1                           |
| Yugoslavia.....                              | 936              | 916              | 957                 | 95.7                           | 25,563           | 22,972           | 21,165              | 108.5                          |
| <b>AMERICA.</b>                              |                  |                  |                     |                                |                  |                  |                     |                                |
| Canada.....                                  | 13,529           | 13,731           | 12,650              | 108.5                          | 307,478          | 321,120          | 375,596             | 85.5                           |
| United States.....                           | 36,701           | 30,395           | 39,888              | 76.2                           | 731,500          | 528,815          | 1,217,668           | 43.4                           |
| <b>ASIA.</b>                                 |                  |                  |                     |                                |                  |                  |                     |                                |
| Syria and Lebanon.....                       | 30               | 33               | 28                  | 115.1                          | 933              | 1,001            | 686                 | 145.9                          |
| Turkey.....                                  | 434              | 419              | 361                 | 116.0                          | 14,353           | 9,954            | 8,447               | 117.8                          |
| <b>AFRICA.</b>                               |                  |                  |                     |                                |                  |                  |                     |                                |
| Algeria.....                                 | 451              | 468              | 584                 | 80.1                           | 9,703            | 12,697           | 12,552              | 101.2                          |
| French Morocco.....                          | 79               | 86               | 82                  | 105.8                          | 1,883            | 2,584            | 2,093               | 123.4                          |
| Tunis.....                                   | 51               | 49               | 97                  | 51.0                           | 689              | 1,102            | 2,556               | 43.1                           |
| <b>SOUTHERN HEMISPHERE.<sup>1</sup></b>      |                  |                  |                     |                                |                  |                  |                     |                                |
| Argentina.....                               | 1,651            | 2,397            | 2,132               | 112.4                          | 57,389           | 77,850           | 67,403              | 115.5                          |
| Chile.....                                   | 264              | 198              | 234                 | 84.7                           | 7,881            | —                | 6,928               | —                              |
| New Zealand.....                             | 365              | 313              | 344                 | 90.8                           | —                | —                | —                   | —                              |
| Uruguay.....                                 | 213              | 228              | 147                 | 155.4                          | 3,218            | —                | 2,332               | —                              |
| <b>Totals,<sup>4</sup> 32 Countries...</b>   | <b>94,423</b>    | <b>88,520</b>    | <b>99,571</b>       | <b>88.9</b>                    | <b>3,040,680</b> | <b>2,574,871</b> | <b>3,514,590</b>    | <b>73.3</b>                    |

<sup>1</sup> The statistics of the Southern Hemisphere are given for the years 1933-34 and 1934-35; the averages are for the five-year period 1928-29 to 1932-33 and the percentage columns give 1934-35 figures as percentages of the averages. <sup>2</sup> Area sown. <sup>3</sup> Area harvested. <sup>4</sup> Totals include only those countries for which information is complete throughout.

48.—Acreages and Yields of Cereals and Potatoes in Countries of the World, 1933 and 1934, with Five-Year Averages for 1928-32—continued.

| Crop and Country.                          | Acreages.        |                  |                     |                                | Yields.          |                  |                     |                                |
|--------------------------------------------|------------------|------------------|---------------------|--------------------------------|------------------|------------------|---------------------|--------------------------------|
|                                            | 1933.            | 1934.            | Average<br>1928-32. | 1934<br>in p.c.<br>of Average. | 1933.            | 1934.            | Average<br>1928-32. | 1934<br>in p.c.<br>of Average. |
|                                            | 000<br>acres.    | 000<br>acres.    | 000<br>acres.       | p.c.                           | 000<br>bush.     | 000<br>bush.     | 000<br>bush.        | p.c.                           |
| <b>Barley—</b>                             |                  |                  |                     |                                |                  |                  |                     |                                |
| <b>NORTHERN HEMISPHERE.</b>                |                  |                  |                     |                                |                  |                  |                     |                                |
| <b>EUROPE.</b>                             |                  |                  |                     |                                |                  |                  |                     |                                |
| Austria.....                               | 423              | 416              | 409                 | 101.6                          | 15,292           | 13,697           | 12,029              | 113.9                          |
| Belgium.....                               | 92               | 97               | 80                  | 121.4                          | 4,613            | 4,833            | 3,948               | 122.4                          |
| Bulgaria.....                              | 602              | 569              | 603                 | 94.4                           | 16,148           | 8,522            | 14,861              | 57.3                           |
| Czechoslovakia.....                        | 1,639            | 1,632            | 1,762               | 92.6                           | 62,031           | 47,510           | 60,577              | 78.4                           |
| Denmark.....                               | 865              | 840              | 893                 | 94.1                           | 44,025           | 43,634           | 48,046              | 90.8                           |
| Estonia.....                               | 256              | 257              | 273                 | 94.2                           | 3,731            | 5,273            | 5,263               | 100.2                          |
| Finland.....                               | 320              | 325              | 288                 | 112.6                          | 8,200            | 10,036           | 7,124               | 140.9                          |
| France.....                                | 1,736            | 1,911            | 1,837               | 104.0                          | 52,594           | 52,215           | 50,114              | 104.2                          |
| Germany.....                               | 3,918            | 4,030            | 3,844               | 104.8                          | 159,292          | 147,156          | 143,494             | 102.6                          |
| Great Britain and Northern<br>Ireland..... | 812              | 959              | 1,160               | 82.7                           | 31,761           | 37,768           | 44,252              | 85.3                           |
| Greece.....                                | 553 <sup>2</sup> | 589 <sup>2</sup> | 495                 | —                              | 10,540           | 11,891           | 7,172               | 165.8                          |
| Hungary.....                               | 1,197            | 1,213            | 1,131               | 107.2                          | 38,649           | 20,530           | 28,906              | 71.0                           |
| Irish Free State.....                      | 117              | 143              | 116                 | 122.8                          | 5,582            | 6,533            | 5,503               | 118.7                          |
| Italy.....                                 | 511              | 492              | 556                 | 88.5                           | 10,401           | 9,347            | 11,345              | 82.4                           |
| Latvia.....                                | 456              | 445              | 432                 | 103.0                          | 8,955            | 10,002           | 7,817               | 127.9                          |
| Lithuania.....                             | 512              | 503              | 489                 | 102.7                          | 10,647           | 11,203           | 10,107              | 110.8                          |
| Luxemburg.....                             | 7                | 7                | 10                  | 76.3                           | 220              | 220              | 264                 | 83.6                           |
| Malta.....                                 | 6                | 5                | 7                   | 76.2                           | 248              | 238              | 290                 | 82.7                           |
| Netherlands.....                           | 44               | 79               | 69                  | 115.0                          | 2,311            | 4,409            | 3,859               | 114.3                          |
| Norway.....                                | 142              | 147              | 138                 | 106.4                          | 4,597            | 5,489            | 4,846               | 113.3                          |
| Poland.....                                | 2,882            | 2,945            | 3,028               | 97.3                           | 65,951           | 59,052           | 69,148              | 85.4                           |
| Portugal.....                              | 210              | —                | 177                 | —                              | 1,438            | 2,346            | 1,975               | 118.8                          |
| Roumania.....                              | 4,485            | 4,332            | 4,687               | 92.4                           | 86,546           | 40,625           | 87,308              | 46.5                           |
| Spain.....                                 | 4,521            | 4,502            | 4,593               | 98.0                           | 100,009          | 129,161          | 101,261             | 127.6                          |
| Sweden.....                                | 279              | 261              | 304                 | 86.0                           | 9,922            | 9,462            | 10,628              | 89.0                           |
| Switzerland.....                           | 17               | 14               | 17                  | 79.9                           | 640              | 467              | 569                 | 82.0                           |
| Yugoslavia.....                            | 1,078            | 1,038            | 1,075               | 96.6                           | 21,268           | 18,744           | 18,316              | 102.3                          |
| <b>AMERICA.</b>                            |                  |                  |                     |                                |                  |                  |                     |                                |
| Canada.....                                | 3,658            | 3,613            | 4,656               | 77.6                           | 63,359           | 63,742           | 104,404             | 61.1                           |
| United States.....                         | 10,009           | 7,144            | 12,739              | 56.1                           | 155,825          | 118,929          | 282,841             | 42.0                           |
| <b>ASIA.</b>                               |                  |                  |                     |                                |                  |                  |                     |                                |
| Korea.....                                 | 2,484            | 2,179            | 2,349               | 92.8                           | 44,409           | 47,163           | 39,514              | 119.4                          |
| Japan.....                                 | 1,924            | 1,862            | 2,151               | 86.6                           | 66,983           | 71,509           | 77,716              | 92.0                           |
| Syria and Lebanon.....                     | 763              | 611              | 842                 | 72.6                           | 13,062           | 11,148           | 16,875              | 66.1                           |
| Turkey.....                                | 3,312            | 3,294            | 3,487               | 94.4                           | 73,432           | 86,311           | 63,566              | 135.3                          |
| <b>AFRICA.</b>                             |                  |                  |                     |                                |                  |                  |                     |                                |
| Algeria.....                               | 3,450            | 3,093            | 3,423               | 90.4                           | 35,992           | 40,878           | 35,264              | 115.9                          |
| Cyrenaica.....                             | 71               | 110              | 81                  | 135.0                          | 747              | 608              | 495                 | 122.8                          |
| Egypt.....                                 | 292              | 284              | 357                 | 79.7                           | 9,237            | 9,033            | 11,147              | 81.0                           |
| Eritrea.....                               | 69               | 67               | 48                  | 139.2                          | 900              | 528              | 428                 | 123.4                          |
| French Morocco.....                        | 3,752            | 3,793            | 3,174               | 119.5                          | 50,408           | 64,303           | 47,844              | 134.4                          |
| Tunis.....                                 | 927              | 988              | 1,328               | 74.4                           | 7,349            | 6,890            | 10,656              | 64.7                           |
| <b>SOUTHERN HEMISPHERE.<sup>1</sup></b>    |                  |                  |                     |                                |                  |                  |                     |                                |
| Argentina.....                             | 1,379            | 1,705            | 960                 | 177.6                          | 36,010           | 42,715           | 19,774              | 216.0                          |
| Chile.....                                 | 235              | 139              | 155                 | 89.8                           | 6,723            | —                | 5,006               | —                              |
| New Zealand.....                           | 30               | 23               | 24                  | 95.8                           | —                | —                | —                   | —                              |
| Uruguay.....                               | 15               | 18               | 11                  | 168.4                          | 235              | —                | 140                 | —                              |
| <b>Totals,<sup>4</sup> 38 Countries...</b> | <b>59,007</b>    | <b>55,905</b>    | <b>63,396</b>       | <b>88.2</b>                    | <b>1,321,316</b> | <b>1,259,883</b> | <b>1,460,399</b>    | <b>86.3</b>                    |

<sup>1</sup> The statistics of the Southern Hemisphere are given for the years 1933-34 and 1934-35; the averages are for the five-year period 1928-29 to 1932-33 and the percentage columns give 1934-35 figures as percentages of the averages. <sup>2</sup> Area sown. <sup>3</sup> Area harvested. <sup>4</sup> Totals include only those countries for which information is complete throughout.

## 48.—Acreages and Yields of Cereals and Potatoes in Countries of the World, 1933 and 1934, with Five-Year Averages for 1928-32—continued.

| Crop and Country.                        | Acreages.     |               |                     |                                | Yields.           |                |                     |                                |
|------------------------------------------|---------------|---------------|---------------------|--------------------------------|-------------------|----------------|---------------------|--------------------------------|
|                                          | 1933.         | 1934.         | Average<br>1928-32. | 1934<br>in p.c.<br>of Average. | 1933.             | 1934.          | Average<br>1928-32. | 1934<br>in p.c.<br>of Average. |
|                                          | 000<br>acres. | 000<br>acres. | 000<br>acres.       | p.c.                           | 000<br>bush.      | 000<br>bush.   | 000<br>bush.        | p.c.                           |
| <b>Rye—</b>                              |               |               |                     |                                |                   |                |                     |                                |
| <b>NORTHERN HEMISPHERE.</b>              |               |               |                     |                                |                   |                |                     |                                |
| <b>EUROPE.</b>                           |               |               |                     |                                |                   |                |                     |                                |
| Austria.....                             | 958           | 949           | 936                 | 101.4                          | 27,045            | 23,897         | 20,762              | 115.1                          |
| Belgium.....                             | 578           | 544           | 565                 | 96.3                           | 22,310            | 20,802         | 21,618              | 96.2                           |
| Bulgaria.....                            | 516           | 476           | 565                 | 84.2                           | 9,683             | 6,576          | 9,542               | 68.9                           |
| Czechoslovakia.....                      | 2,584         | 2,442         | 2,606               | 93.7                           | 82,104            | 59,969         | 70,580              | 85.0                           |
| Denmark.....                             | 353           | 375           | 348                 | 107.7                          | 9,899             | 11,023         | 9,452               | 116.6                          |
| Estonia.....                             | 373           | 364           | 354                 | 102.6                          | 8,735             | 8,768          | 6,618               | 132.5                          |
| Finland.....                             | 575           | 605           | 527                 | 115.0                          | 14,633            | 15,543         | 12,013              | 129.4                          |
| France.....                              | 1,706         | 1,670         | 1,815               | 92.0                           | 35,338            | 32,643         | 32,466              | 100.5                          |
| Germany.....                             | 11,180        | 11,097        | 11,312              | 98.1                           | 343,576           | 299,501        | 310,223             | 96.5                           |
| Greece.....                              | 183           | 204           | 152                 | —                              | 2,800             | 3,440          | 1,760               | 195.5                          |
| Hungary.....                             | 1,677         | 1,632         | 1,576               | 103.5                          | 37,655            | 20,167         | 28,878              | 69.9                           |
| Italy.....                               | 282           | 278           | 302                 | 91.9                           | 6,739             | 5,607          | 6,481               | 86.5                           |
| Latvia.....                              | 637           | 663           | 610                 | 108.7                          | 13,979            | 16,210         | 9,949               | 162.9                          |
| Lithuania.....                           | 1,210         | 1,224         | 1,184               | 103.3                          | 21,731            | 25,221         | 21,165              | 119.2                          |
| Luxemburg.....                           | 21            | 19            | 18                  | 107.4                          | 575               | 527            | 416                 | 126.6                          |
| Netherlands.....                         | 408           | 450           | 460                 | 97.7                           | 15,602            | 16,291         | 15,711              | 103.7                          |
| Norway.....                              | 16            | 15            | 17                  | 83.1                           | 438               | 418            | 498                 | 84.0                           |
| Poland.....                              | 14,271        | 14,014        | 14,061              | 99.7                           | 278,465           | 222,764        | 251,101             | 88.7                           |
| Portugal.....                            | 409           | —             | 400                 | —                              | 8,615             | 4,802          | 4,665               | 102.9                          |
| Roumania.....                            | 958           | 912           | 868                 | 105.1                          | 17,555            | 8,689          | 13,502              | 64.3                           |
| Russia (U.S.S.R.) { Winter<br>Spring     | 61,777<br>988 | 60,318<br>—   | 64,644<br>1,137     | 93.3<br>—                      | 940,120<br>11,811 | —<br>22,176    | 830,124<br>21,577   | —<br>102.8                     |
| Spain.....                               | 1,458         | 1,451         | 1,528               | 95.0                           | 20,703            | 22,176         | 21,577              | 102.8                          |
| Sweden.....                              | 546           | 575           | 588                 | 97.8                           | 18,128            | 20,865         | 15,753              | 132.5                          |
| Switzerland.....                         | 46            | 35            | 47                  | 74.0                           | 1,545             | 1,242          | 1,525               | 81.4                           |
| Turkey.....                              | 696           | 1,204         | 677                 | 177.8                          | 13,430            | 12,169         | 10,719              | 113.5                          |
| Yugoslavia.....                          | 640           | 613           | 594                 | 103.1                          | 9,659             | 7,688          | 7,912               | 97.2                           |
| <b>AMERICA.</b>                          |               |               |                     |                                |                   |                |                     |                                |
| Canada.....                              | 583           | 735           | 910                 | 80.8                           | 4,177             | 5,423          | 12,811              | 42.3                           |
| United States.....                       | 2,349         | 1,937         | 3,296               | 58.8                           | 21,150            | 16,040         | 38,655              | 41.5                           |
| <b>AFRICA.</b>                           |               |               |                     |                                |                   |                |                     |                                |
| Algeria.....                             | 3             | 3             | 4                   | 94.6                           | 29                | 43             | 47                  | 92.1                           |
| <b>SOUTHERN HEMISPHERE.<sup>1</sup></b>  |               |               |                     |                                |                   |                |                     |                                |
| Argentina.....                           | 904           | 1,458         | 811                 | 179.7                          | 9,330             | 17,716         | 7,970               | 222.3                          |
| <b>Totals,<sup>4</sup> 27 Countries.</b> | <b>45,528</b> | <b>45,740</b> | <b>46,579</b>       | <b>88.2</b>                    | <b>1,044,213</b>  | <b>898,008</b> | <b>957,944</b>      | <b>93.7</b>                    |
| <b>Corn—</b>                             |               |               |                     |                                |                   |                |                     |                                |
| <b>NORTHERN HEMISPHERE.</b>              |               |               |                     |                                |                   |                |                     |                                |
| <b>EUROPE.</b>                           |               |               |                     |                                |                   |                |                     |                                |
| Austria.....                             | 159           | 160           | 148                 | 108.1                          | 5,377             | 5,897          | 4,763               | 123.8                          |
| Bulgaria.....                            | 1,796         | 1,658         | 1,757               | 94.3                           | 37,441            | 32,262         | 31,536              | 102.3                          |
| Czechoslovakia.....                      | 316           | 359           | 351                 | 102.3                          | 6,018             | 9,728          | 9,760               | 99.7                           |
| France.....                              | 832           | 823           | 843                 | 97.5                           | 17,123            | 20,449         | 18,778              | 108.9                          |
| Greece.....                              | 645           | 586           | 555                 | 105.6                          | 10,760            | 9,448          | 6,706               | 140.9                          |
| Hungary.....                             | 2,816         | 2,807         | 2,726               | 103.0                          | 71,230            | 82,740         | 66,223              | 124.9                          |
| Italy.....                               | 3,190         | 3,271         | 3,391               | 96.5                           | 93,837            | 114,874        | 90,528              | 126.9                          |
| Poland.....                              | 225           | 225           | 231                 | 97.2                           | 2,200             | —              | 3,732               | —                              |
| Roumania.....                            | 11,928        | 12,368        | 11,470              | 107.8                          | 179,301           | 188,969        | 202,502             | 93.3                           |
| Switzerland.....                         | 2             | 2             | 3                   | 74.0                           | 113               | 99             | 126                 | 78.4                           |
| Turkey.....                              | 942           | 778           | 884                 | 88.0                           | 22,324            | 12,692         | 19,121              | 66.4                           |
| Yugoslavia.....                          | 6,518         | 6,548         | 6,066               | 108.0                          | 140,863           | 188,764        | 137,220             | 137.6                          |

<sup>1</sup> The statistics of the Southern Hemisphere are given for the years 1933-34 and 1934-35; the averages are for the five-year period 1928-29 to 1932-33 and the percentage columns give 1934-35 figures as percentages of the averages. <sup>2</sup> Area sown. <sup>3</sup> Area harvested. <sup>4</sup> Totals include only those countries for which information is complete throughout.

**48.—Acreages and Yields of Cereals and Potatoes in Countries of the World, 1933 and 1934, with Five-Year Averages for 1928-32—concluded.**

| Crop and Country.                            | Acreages.      |                |                     |                                | Yields.          |                  |                     |                                |
|----------------------------------------------|----------------|----------------|---------------------|--------------------------------|------------------|------------------|---------------------|--------------------------------|
|                                              | 1933.          | 1934.          | Average<br>1928-32. | 1934<br>in p.c.<br>of Average. | 1933.            | 1934.            | Average<br>1928-32. | 1934<br>in p.c.<br>of Average. |
|                                              | 000<br>acres.  | 000<br>acres.  | 000<br>acres.       | p.c.                           | 000<br>bush.     | 000<br>bush.     | 000<br>bush.        | p.c.                           |
| <b>Corn—concluded.</b>                       |                |                |                     |                                |                  |                  |                     |                                |
| AMERICA.                                     |                |                |                     |                                |                  |                  |                     |                                |
| Canada.....                                  | 137            | 161            | 144                 | 111.8                          | 5,054            | 6,798            | 5,351               | 127.0                          |
| United States.....                           | 103,260        | 87,486         | 102,768             | 85.1                           | 2,351,658        | 1,380,718        | 2,562,147           | 53.9                           |
| ASIA.                                        |                |                |                     |                                |                  |                  |                     |                                |
| Cambodia.....                                | 297            | 741            | 92                  | 802.4                          | 6,693            | 17,716           | 1,927               | 919.2                          |
| Syria and Lebanon.....                       | 67             | 61             | 76                  | 80.0                           | 1,024            | 939              | 1,494               | 62.8                           |
| AFRICA.                                      |                |                |                     |                                |                  |                  |                     |                                |
| Algeria.....                                 | 25             | 25             | 23                  | 107.9                          | 228              | 295              | 260                 | 113.4                          |
| Egypt.....                                   | 1,638          | 1,629          | 2,036               | 80.0                           | 58,101           | 61,021           | 74,389              | 82.0                           |
| Eritrea.....                                 | 27             | 11             | 21                  | 52.3                           | 394              | 142              | 317                 | 44.7                           |
| Kenya.....                                   | 113            | 123            | 193                 | 63.8                           | 2,667            | 3,554            | 4,650               | 76.4                           |
| Morocco, (French).....                       | 887            | 1,013          | 714                 | 142.0                          | 5,528            | 8,149            | 5,663               | 143.9                          |
| Tunis.....                                   | 37             | 44             | 44                  | 101.7                          | 256              | 236              | 232                 | 101.7                          |
| <b>Totals,<sup>2</sup> 21 Countries...</b>   | <b>135,632</b> | <b>120,654</b> | <b>134,536</b>      | <b>89.7</b>                    | <b>3,015,990</b> | <b>2,145,480</b> | <b>3,243,693</b>    | <b>66.1</b>                    |
| <b>Potatoes—</b>                             |                |                |                     |                                |                  |                  |                     |                                |
| NORTHERN HEMISPHERE.                         |                |                |                     |                                |                  |                  |                     |                                |
| EUROPE.                                      |                |                |                     |                                |                  |                  |                     |                                |
| Austria.....                                 | 504            | 506            | 476                 | 106.2                          | 86,528           | 102,712          | 97,937              | 104.9                          |
| Belgium.....                                 | 404            | 393            | 419                 | 93.7                           | 135,558          | 116,793          | 136,099             | 85.8                           |
| Bulgaria.....                                | 35             | 37             | 30                  | 121.6                          | 2,973            | 4,150            | 1,916               | 216.6                          |
| Czechoslovakia.....                          | 1,819          | 1,842          | 1,780               | 103.5                          | 301,371          | 285,297          | 347,159             | 82.2                           |
| Estonia.....                                 | 169            | 177            | 163                 | 109.1                          | 34,871           | 29,891           | 27,591              | 108.3                          |
| Finland.....                                 | 199            | 212            | 179                 | 117.9                          | 47,096           | 38,213           | 31,619              | 120.9                          |
| France.....                                  | 3,436          | 3,441          | 3,531               | 97.4                           | 544,601          | 565,359          | 544,866             | 103.8                          |
| Germany.....                                 | 7,139          | 7,183          | 7,014               | 102.4                          | 1,619,320        | 1,718,865        | 1,611,765           | 106.6                          |
| Great Britain and North-<br>ern Ireland..... | 772            | 628            | 616                 | 101.9                          | 170,053          | 166,657          | 152,555             | 109.2                          |
| Greece.....                                  | 43             | 49             | 29                  | 170.2                          | 4,155            | —                | 1,982               | —                              |
| Hungary.....                                 | 726            | 723            | 693                 | 104.3                          | 68,182           | 82,780           | 62,354              | 132.8                          |
| Italy.....                                   | 985            | 989            | 930                 | 106.3                          | 87,232           | 99,451           | 75,346              | 132.0                          |
| Latvia.....                                  | 257            | 266            | 225                 | 118.4                          | 51,534           | 53,123           | 35,788              | 148.4                          |
| Lithuania.....                               | 441            | 452            | 370                 | 122.2                          | 67,035           | 95,009           | 62,368              | 152.3                          |
| Luxemburg.....                               | 41             | 41             | 41                  | 99.5                           | 6,323            | 7,834            | 7,368               | 106.3                          |
| Malta.....                                   | 7              | 7              | 7                   | 95.0                           | 752              | 676              | 1,053               | 64.2                           |
| Netherlands.....                             | 380            | 351            | 426                 | 82.4                           | 112,196          | 91,490           | 128,372             | 71.3                           |
| Norway.....                                  | 120            | 120            | 119                 | 100.9                          | 35,890           | 30,556           | 32,525              | 93.9                           |
| Poland.....                                  | 6,770          | 6,915          | 6,546               | 105.6                          | 1,040,934        | 1,167,253        | 1,111,666           | 105.0                          |
| Roumania.....                                | 489            | 505            | 487                 | 103.7                          | 50,136           | —                | 69,691              | —                              |
| Sweden.....                                  | 327            | 327            | 339                 | 96.5                           | 72,659           | 58,422           | 65,899              | 88.7                           |
| Switzerland.....                             | 117            | 112            | 115                 | 97.3                           | 30,563           | 28,674           | 25,318              | 113.3                          |
| AMERICA.                                     |                |                |                     |                                |                  |                  |                     |                                |
| Canada.....                                  | 528            | 569            | 565                 | 100.7                          | 71,242           | 80,158           | 76,695              | 104.5                          |
| United States.....                           | 3,194          | 3,303          | 3,244               | 101.8                          | 320,203          | 385,287          | 363,395             | 106.0                          |
| ASIA.                                        |                |                |                     |                                |                  |                  |                     |                                |
| Syria and Lebanon.....                       | 17             | 17             | 18                  | 97.8                           | 1,120            | —                | 1,679               | —                              |
| Turkey.....                                  | 109            | 64             | 89                  | 72.0                           | 6,122            | 4,624            | 3,512               | 131.7                          |
| AFRICA.                                      |                |                |                     |                                |                  |                  |                     |                                |
| Algeria.....                                 | 40             | 39             | 53                  | 73.6                           | 3,537            | 3,898            | 3,135               | 124.3                          |
| <b>Totals,<sup>2</sup> 24 Countries...</b>   | <b>28,519</b>  | <b>28,697</b>  | <b>27,970</b>       | <b>102.6</b>                   | <b>4,916,755</b> | <b>5,217,172</b> | <b>5,006,301</b>    | <b>104.2</b>                   |

<sup>1</sup> The statistics of the Southern Hemisphere are for the years 1933-34 and 1934-35; the averages are for the five-year period 1928-29 to 1932-33 and the percentage columns give 1934-35, figures as percentages of the averages. <sup>2</sup> Totals include only those countries for which information is complete throughout.



**World Exports and Imports of Wheat and Flour.**—Statistics showing the exports and imports of wheat and wheat flour for the principal countries of the world in the crop year ended July 31, 1934, with comparative figures for the previous crop year, are shown in Table 49. This information is taken from data published by the International Institute of Agriculture. During the crop year 1933-34, a total of 509,285,000 bushels of wheat is shown as exported, as compared with 584,-036,000 bushels in the previous year.

**49.—Exports of Wheat and Flour from the Principal Wheat-Exporting Countries and Imports of Wheat and Flour into the Principal Wheat-Importing Countries, crop years ended July 31, 1933 and 1934.**

| Wheat.                                  | Twelve Months<br>August 1-July 31. |                | Flour.                                  | Twelve Months<br>August 1-July 31. |               |
|-----------------------------------------|------------------------------------|----------------|-----------------------------------------|------------------------------------|---------------|
|                                         | 1932-33.                           | 1933-34.       |                                         | 1932-33.                           | 1933-34.      |
|                                         | 000 bush.                          | 000 bush.      |                                         | 000 brl.                           | 000 brl.      |
| <b>Exports—</b>                         |                                    |                | <b>Exports—</b>                         |                                    |               |
| United States.....                      | 18,015                             | 20,561         | United States.....                      | 4,268                              | 3,869         |
| Canada.....                             | 240,137                            | 170,234        | Canada.....                             | 5,371                              | 5,455         |
| Argentina.....                          | 128,369                            | 140,296        | Argentina.....                          | 844                                | 1,237         |
| Australia.....                          | 120,326                            | 60,148         | Australia.....                          | 6,405                              | 5,572         |
| Hungary.....                            | 5,423                              | 25,827         | India.....                              | 173                                | 133           |
| Bulgaria.....                           | 3,013                              | 4,270          | Hungary.....                            | 441                                | 748           |
| Yugoslavia.....                         | 838                                | 922            | Japan.....                              | 3,109                              | 2,841         |
| Other countries.....                    | 67,915                             | 87,027         | Other countries.....                    | 8,610                              | 9,589         |
| <b>Totals.....</b>                      | <b>584,036</b>                     | <b>509,285</b> | <b>Totals.....</b>                      | <b>29,221</b>                      | <b>29,444</b> |
| <b>Imports—</b>                         |                                    |                | <b>Imports—</b>                         |                                    |               |
| Germany.....                            | 30,721                             | 28,605         | Germany.....                            | 35                                 | 28            |
| Belgium.....                            | 42,872                             | 43,710         | Austria.....                            | 294                                | 506           |
| France.....                             | 40,866                             | 27,488         | Denmark.....                            | 405                                | 298           |
| Great Britain and Northern Ireland..... | 204,372                            | 200,103        | Finland.....                            | 631                                | 585           |
| Irish Free State.....                   | 13,955                             | 17,133         | Great Britain and Northern Ireland..... | 4,845                              | 5,956         |
| Italy.....                              | 18,610                             | 16,531         | Irish Free State.....                   | 917                                | 557           |
| Netherlands.....                        | 26,007                             | 22,748         | Norway.....                             | 579                                | 475           |
| Sweden.....                             | 3,233                              | 1,830          | Netherlands.....                        | 476                                | 449           |
| Switzerland.....                        | 19,121                             | 17,596         | Czechoslovakia.....                     | 223                                | 11            |
| Czechoslovakia.....                     | 11,041                             | 147            | Egypt.....                              | 103                                | 47            |
| Japan.....                              | 19,444                             | 15,568         | Other countries.....                    | 5,146                              | 3,184         |
| Other countries.....                    | 113,348                            | 73,337         |                                         |                                    |               |
| <b>Totals.....</b>                      | <b>543,590</b>                     | <b>464,796</b> | <b>Totals.....</b>                      | <b>13,654</b>                      | <b>12,096</b> |

**World Live Stock.**—The statistics of Table 50, compiled from data published by the International Institute of Agriculture, show as nearly as possible, the world situation with regard to live stock about 1932. For many countries, the figures are the result of careful enumeration, while for others, they represent only approximate estimates.

**50.—Numbers of Live Stock in Principal Countries, circa 1932.**

| Continent and Country.                  | Horses.                | Cattle.                | Sheep.                | Swine.                 |
|-----------------------------------------|------------------------|------------------------|-----------------------|------------------------|
| <b>Europe—</b>                          |                        |                        |                       |                        |
| Austria.....                            | 247,727                | 2,312,549              | 272,228               | 1,965,367              |
| Belgium.....                            | 238,012 <sup>1</sup>   | 1,784,446              | 185,373 <sup>11</sup> | 1,244,654              |
| Bulgaria.....                           | 482,180                | 1,817,437              | 8,739,803             | 1,002,089              |
| Czechoslovakia.....                     | 707,579                | 4,341,351              | 465,093               | 2,621,235              |
| Denmark.....                            | 496,164 <sup>2</sup>   | 3,237,436 <sup>2</sup> | 192,657               | 4,886,296 <sup>2</sup> |
| Finland.....                            | 366,278                | 1,806,075              | 964,533               | 414,369                |
| France.....                             | 2,900,500              | 15,643,430             | 9,762,160             | 6,488,290              |
| Germany.....                            | 3,394,993 <sup>4</sup> | 19,139,271             | 3,404,904             | 22,868,549             |
| Great Britain and Northern Ireland..... | 1,170,725              | 8,306,035              | 27,203,781            | 3,569,650              |
| Greece.....                             | 324,234                | 875,275                | 6,926,960             | 471,740                |
| Hungary.....                            | 845,548                | 1,812,917              | 1,210,491             | 2,361,195              |

For footnotes see end of Table, p. 310.

## 50.—Numbers of Live Stock in Principal Countries, circa 1932—concluded.

| Continent and Country.                                      | Horses.                | Cattle.                 | Sheep.                  | Swine.               |
|-------------------------------------------------------------|------------------------|-------------------------|-------------------------|----------------------|
| <b>Europe—concluded.</b>                                    |                        |                         |                         |                      |
| Irish Free State.....                                       | 446,064                | 4,025,080               | 3,460,856               | 1,108,315            |
| Italy.....                                                  | 942,745                | 7,088,752               | 10,268,119              | 3,318,075            |
| Latvia.....                                                 | 366,000                | 1,153,100               | 984,000                 | 581,600              |
| Lithuania.....                                              | 589,300                | 1,154,320               | 625,290                 | 1,233,700            |
| Netherlands.....                                            | 299,152 <sup>4</sup>   | 2,866,066               | 484,987                 | 2,735,733            |
| Norway <sup>2</sup> .....                                   | 179,068                | 1,841,787               | 1,735,932               | 303,966              |
| Poland.....                                                 | 3,940,132 <sup>4</sup> | 9,460,682 <sup>4</sup>  | 2,488,054               | 5,843,654            |
| Portugal.....                                               | 83,883                 | 852,269                 | 3,720,549               | 1,157,097            |
| Roumania.....                                               | 2,033,563              | 4,188,596               | 12,293,566              | 2,963,928            |
| Spain.....                                                  | 562,877                | 3,653,667               | 20,046,532              | 5,102,165            |
| Sweden.....                                                 | 660,000                | 3,120,000               | 608,000                 | 1,542,000            |
| Switzerland.....                                            | 140,023                | 1,683,932               | 183,838                 | 926,106              |
| Union of Soviet Socialist Republics in Europe and Asia..... | 19,600,000             | 40,700,000              | 52,100,000 <sup>3</sup> | 11,600,000           |
| Yugoslavia.....                                             | 1,156,999              | 3,812,208               | 8,510,441               | 2,863,177            |
| <b>Northern and Central America—</b>                        |                        |                         |                         |                      |
| Canada.....                                                 | 3,093,626              | 8,876,000               | 3,644,500               | 4,639,100            |
| Cuba.....                                                   | 757,774                | 4,032,907               | 101,737                 | 590,812              |
| Dominican Republic.....                                     | 150,000                | 900,000                 | 161,913                 | 1,100,000            |
| Mexico <sup>5</sup> .....                                   | 1,035,782              | 5,584,892               | 2,697,668               | 2,902,949            |
| United States <sup>1</sup> .....                            | 12,163,000             | 65,129,000              | 51,630,000              | 60,716,000           |
| <b>South America—</b>                                       |                        |                         |                         |                      |
| Argentina.....                                              | 9,858,111              | 32,211,855              | 44,413,221              | 3,768,738            |
| Brazil.....                                                 | 6,827,550              | 42,539,203              | 10,701,672              | 22,089,812           |
| Chile.....                                                  | 441,027                | 2,387,940               | 6,263,482               | 331,156              |
| Colombia.....                                               | 1,000,000              | 8,000,000               | 900,000                 | 1,600,000            |
| Peru.....                                                   | 432,103                | 1,905,853               | 11,209,235              | 668,696              |
| Uruguay.....                                                | 622,894                | 7,372,000               | 20,558,124              | 307,924              |
| Venezuela.....                                              | 167,708                | 2,278,000               | 113,439                 | 512,086              |
| <b>Asia—</b>                                                |                        |                         |                         |                      |
| British India <sup>6</sup> .....                            | 2,355,703              | 159,763,471             | 44,628,474              | —                    |
| Formosa.....                                                | 333                    | 80,351 <sup>6</sup>     | 367                     | 1,753,912            |
| Indo-China.....                                             | 97,772                 | 1,813,839               | 9,131                   | 2,848,380            |
| Iraq.....                                                   | —                      | —                       | 4,307,493               | —                    |
| Japan.....                                                  | 1,477,271              | 1,512,352               | 24,453                  | 947,216              |
| Java and Madura.....                                        | 247,342                | 3,755,672               | 1,291,677               | 98,211               |
| Korea.....                                                  | 53,887                 | 1,664,435               | 2,208                   | 1,339,473            |
| Philippines.....                                            | 319,421 <sup>7</sup>   | 1,282,381               | 111,670                 | 2,491,245            |
| Siam.....                                                   | 313,994                | 4,972,178               | —                       | 864,247              |
| Syria and Lebanon.....                                      | 47,090                 | 478,352                 | 2,080,325               | 5,558                |
| Turkey in Europe and Asia.....                              | 510,965                | 5,315,329               | 11,768,109              | —                    |
| <b>Africa—</b>                                              |                        |                         |                         |                      |
| Algeria.....                                                | 168,111                | 893,188                 | 5,269,038               | 86,013               |
| Egypt <sup>8</sup> .....                                    | 34,243                 | 908,911                 | 1,344,287               | 11,403               |
| French Morocco <sup>9</sup> .....                           | 207,548                | 1,954,053               | 7,556,318               | 116,921              |
| French Sudan.....                                           | 57,260                 | 1,147,200               | 3,100,000               | 28,500               |
| Kenya.....                                                  | 2,403                  | 5,192,824               | 3,227,772               | 13,760 <sup>10</sup> |
| Madagascar.....                                             | 1,996                  | 6,574,584 <sup>9</sup>  | 189,469                 | 490,847              |
| Nigeria.....                                                | 164,361                | 2,560,118               | 2,127,038               | 27,424               |
| Southern Rhodesia.....                                      | 2,752                  | 2,747,485               | 375,892                 | 75,533               |
| Territory of S.W. Africa.....                               | 20,399                 | 465,274                 | 1,397,193               | 9,381                |
| Tanganyika.....                                             | 101                    | 5,336,412               | 2,281,405               | 5,120                |
| Tunis.....                                                  | 102,932                | 542,878                 | 2,931,041               | 23,814               |
| Union of South Africa.....                                  | 836,003                | 10,573,869 <sup>3</sup> | 48,358,349 <sup>3</sup> | 904,904 <sup>2</sup> |
| <b>Oceania—</b>                                             |                        |                         |                         |                      |
| Australia.....                                              | 1,775,550              | 12,260,955              | 111,998,517             | 1,167,845            |
| New Zealand.....                                            | 280,994                | 4,072,383               | 28,691,788              | 513,416              |

<sup>1</sup>On farms only. <sup>2</sup>In rural districts only. <sup>3</sup>Sheep and goats. <sup>4</sup>Exclusive of animals belonging to the Army. <sup>5</sup>Incomplete data. <sup>6</sup>Foreign and cross-bred cattle and zebu. <sup>7</sup>Horses and mules. <sup>8</sup>Exclusive of animals belonging to the British Army. <sup>9</sup>Number registered for fiscal purposes. <sup>10</sup>Swine belonging to Europeans only. <sup>11</sup>1910.

## CHAPTER IX.—FORESTRY.\*

### Section 1.—Physiography, Geology and Climate as Affecting the Forests.

The Dominion of Canada may be roughly divided into three main drainage areas—the Pacific slope west of the Rocky mountains; the Great Plains Region draining into the Arctic ocean and Hudson bay; and the basin of the Great Lakes and the St. Lawrence, together with the Maritime Provinces. Each of these three regions supports a distinct type of forest growth.

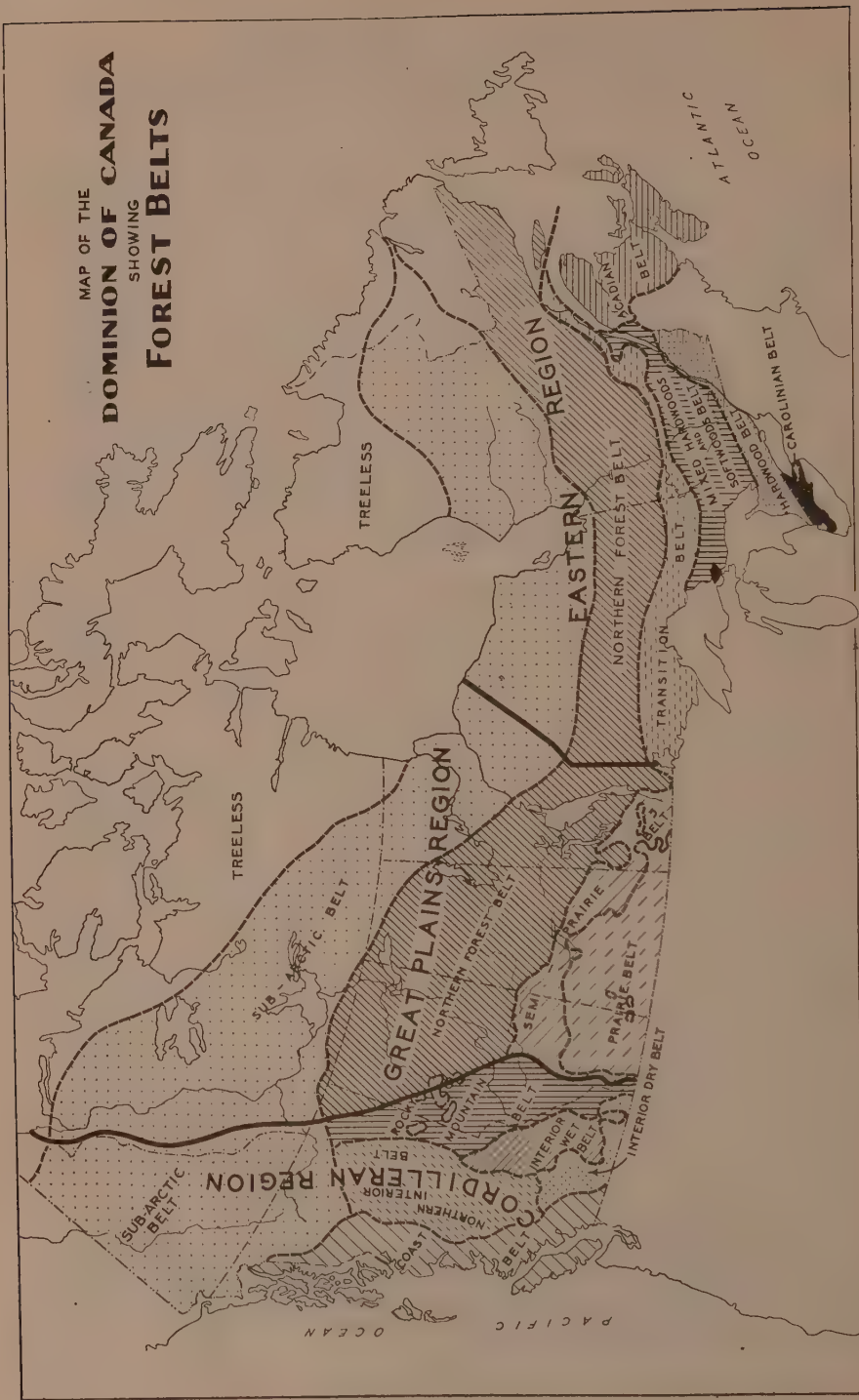
**The Pacific Slope.**—The Pacific slope is characterized by several systems of mountains running approximately parallel and extending from the southeast to the northwest. The Rocky mountains vary in elevation from 5,000 to 13,000 feet above sea-level, with numerous peaks extending well above 10,000 feet. Between this system and the Pacific are: the Columbian system, comprising the Selkirk, Monashee and Caribou mountains; the Interior Plateau system; the Cassiar and Yukon systems; the Pacific system comprising the Cascade, Coast and lesser ranges, terminating with the sunken Insular system whose upper elevations form Vancouver island, the Queen Charlotte group and other coast islands. The chief rivers follow the valleys between these ranges, breaking through in some cases along the shorter cross valleys from east to west.

The Rocky mountains are formed chiefly of Palæozoic rocks, as are also the islands off the coast. The Coast range is almost entirely granitic and the Selkirks are Precambrian or Cambrian. The intervening ranges are of mixed formations, varying from rocks of sedimentary origin to granites. The best soil in British Columbia is concentrated in valley bottoms or alluvial deltas, and the purely agricultural area has been estimated at about 10 p.c. of the land area.

The climate along the coast is mild and humid, with a mean annual temperature varying from 44° to 49° F. The precipitation is the heaviest in Canada, varying from 40 to 120 inches. The greater part of this precipitation falls during autumn and winter, only 30 p.c. falling during the growing season, to which fact is sometimes ascribed the scarcity of deciduous-leaved forest growth, which requires more moisture during the growing season. In any case, coniferous tree growth in this region is the most luxuriant in Canada and the forests have the most rapid rate of growth, the largest individual trees and the heaviest stands of timber extending from sea-level up to elevations of 3,500 or 4,000 feet. The Interior Dry Belt of British Columbia has a low annual precipitation, varying from 10 to 20 inches. Extremes of temperature from 100° F. to -45° F. make this a region unfavourable to tree growth. The winds from the Pacific, which precipitate most of their moisture on the Coast and Cascade mountains, cross this interior plateau, leaving its southern part in a semi-arid state, and give up a large part of what moisture remains when they reach the Selkirk and Rocky mountains, forming what may be termed the Interior Wet Belt, centred in the Columbia valley. Here the precipitation averages over 30 and sometimes reaches 60 inches, taking the form of snow in higher altitudes. Temperatures vary from 100° F. to -17° F. In the Rocky Mountain range itself the climate is more extreme and variable than to the westward.

\*Material in this chapter has been prepared in co-operation with Roland D. Craig, F.E., of the Forest Service of the Department of the Interior, by R. G. Lewis, B.Sc.F., Chief of the Forest Products Branch of the Dominion Bureau of Statistics. This Branch collects and compiles statistics relating to forest production and publishes four annual printed reports covering the lumber industry, the pulp and paper industry and the wood-using and paper-using industries of Canada. These printed reports are usually preceded by a number of preliminary mimeographed reports, one for each important industry or group of industries. For detailed list of publications see Chapter XXIX.

MAP OF THE  
DOMINION OF CANADA  
SHOWING  
FOREST BELTS



FOREST BELTS OF CANADA



**The Great Plains.**—East of the Rockies lies the Great Plains Region, composed of a variety of topographical types. From the foothills of the Rockies, the country slopes gradually eastward and northward. The prairie country extends from the International Boundary to the 55th parallel along the foothills, gradually tapering down toward the east to a point near the lake of the Woods. Of this area, 105,000 square miles is now almost entirely treeless, with rich fertile soil, and is at present a purely agricultural or pastoral country. Whether its present treeless condition is due to climatic or other causes is problematical, but the presence of isolated patches of tree growth in situations well protected from fire, the ease with which these natural groves can be increased and new plantations established by artificial planting and protection from prairie fires, would seem to indicate that repeated burning accounts, at least in part, for its present treeless state. The underlying rocks are of the Cenozoic and Mesozoic eras. The climate of Alberta is extremely variable in winter, due to a warm, dry wind known as the *Chinook*, which blows from the south and southwest and extends its influence from the International Boundary to the Peace river and eastward to Regina in Saskatchewan. In summer the isotherms run almost due north and south in Alberta. Rainfall varies from 15 to 20 inches. The temperature in Manitoba has an absolute recorded range of 150°F., with a mean range of 71°. Saskatchewan and Alberta are more temperate, especially where they are affected by the *Chinook*. North of the treeless prairies is a region largely unexplored, covered at first by a comparatively light forest growth which toward the north and east gives way to the sub-Arctic "tundra"—a region of muskeg and bare, glacier-worn rocks of the Laurentian and Precambrian types.

These Laurentian rocks in Canada form the Archæan or Canadian Shield, with a distinct type of topography. This rock formation covers a huge irregular triangle with its apex near the Thousand islands in the St. Lawrence, from which point one arm extends northwesterly to the mouth of the Mackenzie river and the other northeasterly down the St. Lawrence valley to include the Labrador peninsula. This region has been reduced to a peneplained condition by repeated glacial action which has worn down the high elevations and scoured out most of the soil except in isolated depressions. It is covered with innumerable lakes, muskeg or bog, and rivers. The southern portion of the Shield is to a great extent agricultural land, actual or potential, much of which is still heavily forested. Toward the north tree growth becomes lighter and the climate as a rule becomes too severe for continuous successful agriculture. Still farther toward the north, tree growth ceases and the region merges into the same belt of sub-Arctic "tundra" already mentioned.

**The St. Lawrence Basin and the Atlantic Slope.**—The basin of the St. Lawrence and Great Lakes contains a variety of topographical and geological types. The north shores of lake Superior and Georgian bay, the upper Ottawa River valley and the southern part of Labrador, are parts of the Laurentian Shield already described. Here the climate is tempered in part by the presence of the lakes and the gulf of St. Lawrence but is, nevertheless, severe and variable. To the south, soil and climate improve, and the southwestern peninsula of Ontario, the north shore of lake Ontario and the St. Lawrence valley are all essentially agricultural land. The rock here is of sedimentary origin, mostly of Palæozoic age.

The Maritime Provinces, with a general slope towards the Atlantic, are varied in topography and geology. The climate resembles that of southern Ontario, being modified by the presence of the ocean. Precipitation is above 35 inches annually. This region supports a type of forest similar to that of the southern portion of the Archæan Shield.

## Section 2.—Main Types of Forest Growth.

Physiographic, climatic and soil conditions in Canada favour the coniferous type of forest. While the more fertile portions of Ontario, Quebec and the Maritime Provinces once supported a heavy virgin growth of hardwoods, the greater part of Canada's forest area is covered with spruce, pine, balsam, Douglas fir and other coniferous soft woods. Three main groups of forest growth in Canada follow the main physiographic divisions already mentioned. These groups are the Cordilleran, the Great Plains and the Eastern forests.

**The Cordilleran Forests.**—The Cordilleran Forest Region extends from the Pacific Coast to the eastern foothills of the Rocky mountains and may be subdivided into the Coast Belt, the Interior Dry Belt, the Interior Wet Belt and the Rocky Mountain Belt. The Coast Belt includes several distinct forest types, their character being determined by variations in climatic and topographic conditions, among which altitude and precipitation have the greatest effect on forest growth. In the southern portion of the belt Douglas fir and red cedar are the principal species at altitudes below 2,000 or 2,500 feet. With these are associated western hemlock, western white pine, Sitka spruce and the *amabilis* and lowland firs. Toward the north and at higher altitudes, Douglas fir disappears and red cedar and hemlock are the important trees, with Sitka spruce, *amabilis* fir and yellow cedar as subsidiaries. On the northern end of Vancouver island, the Queen Charlotte islands and the adjacent coast Sitka spruce and western hemlock form a lowland type.

In the Interior Dry Belt, *ponderosa* or western yellow pine predominates at low altitudes bordering on the grass lands. With rising altitude Douglas fir gradually increases in importance until it predominates at elevations up to 3,500 and 4,500 feet. Western larch covers a limited area usually between the true yellow pine and Douglas fir types. At the northern latitudinal and upper altitudinal limits of the Douglas fir type, an Engelmann spruce type develops, which merges into a spruce-alpine fir type at still higher altitudes. Lodgepole pine has taken the place of Douglas fir, Engelmann spruce and, in some cases, yellow pine on burned-over areas and has become, to a considerable extent, established as a distinct type.

Forest types similar to those of the coast have developed in the Interior Wet Belt. In the southern portion of this belt, red cedar predominates in the wetter situations, mixed with Douglas fir, Engelmann spruce, white pine, hemlock, western larch, alpine fir, lowland fir and cottonwood. On the benches and lower valley slopes, hemlock and cedar are the important species. Engelmann spruce replaces hemlock at higher elevations, cedar gradually disappears and the spruce-alpine fir type stretches up to timber line. To the north, Engelmann spruce and alpine fir are more prominent and the other species are gradually eliminated.

The Rocky Mountain Belt includes portions of the Dry Belt types to the south and those of the Interior Wet Belt further north. Otherwise the typical forest of the Rocky mountains is made up of Engelmann spruce and some white spruce, with an increasing proportion of alpine fir as the altitude increases. This type has suffered so severely from fire, especially on the dry eastern slopes, that lodgepole pine has established itself permanently in some cases and temporarily in others on burned-over areas.

In the Sub-Arctic Belt, comprising the Yukon plateau and that part of the Rocky Mountain system north of 58°, the general elevation is over 4,000 feet, the climate is severe, the growing season short and precipitation scant. As a result, tree growth is slow and confined to favourable sites in valleys. The timber is small

and of poor quality. It is, however, of great local value in the mining industry and to trappers. The principal type is the spruce-alpine fir, with lodgepole pine on poorer sites, and poplar and willow on richer soils on burned-over areas.

Most of the commercially important species of the Cordilleran Region are confined to British Columbia. The spruce-fir-lodgepole pine type of the northern interior extends across the Rockies into the foothills of Alberta. Certain species, such as Douglas fir, Engelmann spruce, alpine fir and lodgepole pine, are also found in western Alberta, but in few cases do they extend any great distance eastward.

**The Forests of the Great Plains.**—The Great Plains Region may be divided into the Prairie, Semi-Prairie, Northern Forest and Sub-Arctic Belts. There are no great variations in altitude in the region, and latitude and soil conditions, especially drainage, determine the distribution of forest types. The Prairie Belt in southern Alberta, Saskatchewan and Manitoba extends north from the International Boundary for 200 to 400 miles. Patches of tree growth in protected situations are made up chiefly of aspen poplar, with some white spruce and jack pine. North of the prairies there is a transition belt in which a large proportion of the area is covered with poplar interspersed with open grasslands. The soil in this belt is for the most part of agricultural value and the timber of little commercial value except for local consumption. North of this agricultural and pastoral area is the great Northern Forest Belt, from 300 to 400 miles wide, which extends from Alaska to Labrador, covering the greater part of the Laurentian Shield as far as the limits of commercial tree growth. Originally, white spruce predominated over this entire belt and it still forms the most important type commercially, although it has suffered severely through forest fires. In the East, balsam fir is an important associate, and the spruce-balsam fir type makes up most of the pulpwood resources of Eastern Canada. The black spruce type, frequently associated with eastern larch (tamarack), occupies poorly-drained areas within this belt. Large areas in this belt have been burned over and the spruce and balsam replaced, at least temporarily, by aspen and white birch on the heavier soils, and by jack pine on the sandy sites. Jack pine, aspen and balsam poplar reach a higher development along the Peace river in northern Alberta than they do elsewhere in America. Along its northern margin this belt merges into the sub-Arctic "tundra", with tree growth confined to narrow strips along waterways. Vigorous tree growth and fairly large timber are found along these shallow valleys as far north as 67°, indicating that soil conditions, especially drainage, are more important than climate in defining the limits of tree growth. To the northward, balsam fir disappears early from the forest growth, followed by balsam poplar, jack pine, aspen and paper birch, leaving white spruce, black spruce, tamarack or larch, and willow to define the northern limit of tree growth. This may be roughly indicated by a line drawn from the mouth of the Mackenzie river on the Arctic ocean to the mouth of the Churchill river on Hudson bay and across the Labrador peninsula at about 58° N. latitude.

**The Eastern Forests.**—In southeastern Canada a number of belts of forest growth with distinctive characteristics are recognized. The hardwood belts include the Carolinian Zone, confined to the north shore of lake Erie and the western part of lake Ontario. This is important only as forming the northern fringe of a type which covers a large area in the central Eastern United States, and includes a number of species such as tulip, sassafras, etc., not found elsewhere in Canada. North of this zone, still in the purely agricultural and pastoral area, the original forests were of the commercially important hardwoods, such as maple, elm, bass-



wood, oak, yellow birch, hickory and beech, with patches of pine, hemlock and other conifers on the lighter soils. This area has been largely cleared and devoted to agriculture, and the original forest type is to be seen only on farmers' woodlots.

Since the beginning of the lumbering industry in Canada, the region north of this belt, extending, roughly speaking, to the height of land between the St. Lawrence and Hudson Bay waters, has been the centre of the most extensive exploitation, and still occupies that position as far as Eastern Canada is concerned. The forest types which still exist in this region vary considerably, owing to soil and other conditions, but, generally speaking, white pine occupies the better situations on the lighter soils and reaches its highest development in this belt. With it is frequently associated the red or Norway pine. On heavier soils, spruce, hemlock and the tolerant hardwoods also form an important part of the stand. Cedar, tamarack and black spruce form typical stands in poorly drained situations. Hardwood ridges, carrying chiefly maple and yellow birch, occur in the southern part of this belt. These, with hemlock, extend north to a line running approximately from the northeast corner of lake Superior to the mouth of the Saguenay river. The extensive lumbering operations of the past century, together with repeated forest fires, have greatly modified these original types. The exclusive cutting of white and red pine, practised until recently, has resulted in the displacement of these species by spruce, balsam fir, jack pine and the hardwoods, the spruce-balsam fir pulpwood areas being the most valuable type remaining. Jack pine has come in extensively on burned-over areas on lighter soils and in some cases has taken permanent possession of such sites. On account of its value for railway ties and pulpwood and the ease with which it can be grown it is not at all an undesirable species to perpetuate. Aspen and paper birch are also rapidly becoming established as temporary types. Along its northern border, this mixed hardwood and softwood type merges into the northern forest belt already described, with the disappearance of first the hemlock and the tolerant hardwoods and then the white and red pines.

The Acadian Belt covers the Maritime Provinces and the south shore of the St. Lawrence in Quebec. The forest is similar to that of the New England States, being characterized by red spruce. With this are found varying proportions of white spruce and balsam fir. In the mixed softwood and hardwood type, which also occurs in this belt, white pine and hemlock occur, with yellow birch, maple and beech representing the commercial hardwoods. Cedar is fairly abundant in the western portion of this region. Burned-over areas in the Acadian Belt are chiefly occupied by aspen and white birch as temporary species.

### Section 3.—Important Tree Species.

In Canada there are approximately 125 species or distinct varieties of trees. Only 33 of these are conifers commonly known as "softwoods", but they comprise over 80 p.c. of the standing timber and 70 p.c. of the wood utilized for all purposes. While the number of deciduous-leaved or "hardwood" species is large, only about a dozen are of a commercial importance comparable with twice the number of conifers. The principal use for the hardwoods is for fuel, though increasing amounts are being manufactured into lumber, railway ties and veneers. A detailed description of the more important species of Canadian forest trees was given on pp. 282-285 of the 1924 Year Book.



### Section 4.—Forest Resources.

**Areas.**—The total land area of Canada, revised according to the Labrador Boundary Award of 1927 and the latest surveys, is estimated at 3,466,793 square miles, of which 564,000 square miles is considered as being suitable for agricultural or pastoral purposes. According to the Census of 1931 about 255,094 square miles of this agricultural land was occupied and about 133,220 square miles was improved.

The total area covered by existing forests has been estimated at 1,153,000 square miles, including 26,652 square miles of occupied agricultural land still forested. Most of this will no doubt be left under forest cover in the form of farmers' woodlots. There is also a considerable area of forest land which is of agricultural value and will eventually be cleared but it is estimated that 1,100,000 square miles is essentially forest land which can best be utilised for forest production (See Table 8, p. 41).

The accessible and productive forest area is estimated to be 791,670 square miles of which 378,945 square miles carries timber of merchantable size and on 412,725 square miles there is young growth which if protected from fire will eventually produce merchantable timber. The remaining area of 361,330 square miles carries forests of value either because of their influence on water control, climatic conditions, game conservation, or by reason of their attraction to tourists and their value as a source of wood for local use. On account of their geographical location or because of unfavourable growth conditions these forests at present are considered as non-productive from a commercial viewpoint.

As a result of the constant and inevitable improvement in conditions affecting profitable exploitation, such as the extension of settlement and transportation facilities, the increasing world scarcity of forest products, and the ever increasing demand for these products, due to the development of industry, the discovery of new uses for wood, and the improvements in the methods, equipment and machinery used in logging and manufacturing forest products, most of this inaccessible timber will eventually become commercially exploitable. It is estimated that of the accessible forest area 481,790 square miles is producing softwood or coniferous timber, 213,590 square miles, mixed softwoods and hardwoods and 96,290 square miles, hardwood or broad-leaved species.

In Canada as a whole about 8.4 p.c. of the total forest area has been permanently dedicated to forest production. Previous to the transfer of the natural resources to the western provinces in 1930, some 33,023 square miles of this reserved area comprised national forests but these have now in large part become provincial forests. The distribution of provincial forests, provincial parks and national parks among the various provinces is shown in the following statement.

FOREST RESERVES AND PARKS IN CANADA, 1934.

| Province.             | Provincial<br>Forest<br>Reserves. | Provincial<br>Parks. | National<br>Parks.    |
|-----------------------|-----------------------------------|----------------------|-----------------------|
|                       | sq. miles.                        | sq. miles.           | sq. miles.            |
| Nova Scotia.....      | —                                 | —                    | 0.05                  |
| New Brunswick.....    | —                                 | —                    | 0.10                  |
| Quebec.....           | 28,960                            | 4,759                | —                     |
| Ontario.....          | 19,607                            | 4,888                | 11.69                 |
| Manitoba.....         | 3,811                             | —                    | 1,148.04              |
| Saskatchewan.....     | 9,835                             | 545                  | 1,869.00              |
| Alberta.....          | 19,433                            | 2                    | 7,316.00 <sup>1</sup> |
| British Columbia..... | 15,981                            | 2,727                | 1,715.00              |
| Totals.....           | 97,627                            | 12,921               | 12,059.88             |

<sup>1</sup> Not including the Wood Buffalo Park, partly in Alberta and partly in the Northwest Territories, and the Tar Sands Reserve. These areas are not administered as National Parks.

Of the total forest area, less than 10 p.c. has been permanently alienated, being owned in fee simple by private individuals or corporations. The Crown still holds title to 13.2 p.c. of the area but has alienated the right to cut timber thereon under lease or licence. So far 77.2 p.c. has not been alienated in any way. It may be said that 90.4 p.c. of Canada's forest area is still owned by the Crown in the right either of the Dominion or the provinces and, subject only to certain temporary privileges granted to limit-holders, may at any time be placed under forest management and dedicated to forest production.

**Volume of Standing Timber.**—In 1932 the total stand of timber in Canada was estimated to be approximately 266,844 million cubic feet, of which 216,236 million cubic feet was of coniferous species and 50,608 million cubic feet of broad-leaved species.

During the years 1926-30, which were typical of pre-depression conditions, the average annual depletion due to use was approximately 2,000 million cubic feet of conifers and 970 million cubic feet of hardwoods. The average annual loss from fire was estimated at 185 million cubic feet of conifers and 45 million cubic feet of hardwoods. Though no widespread epidemics of insects or fungous diseases have occurred in recent years, local infestations which cause considerable loss develop practically every year. In Nova Scotia, in 1931, the balsam suffered severely from "gout" induced, it is believed, by minute sucking insects of the genus *Dreyfusia*, previously undescribed. In the Gaspé peninsula the spruce saw-fly became a serious menace. In the absence as yet of any basic data on which to estimate the annual depletion from these causes, it may be taken as 700 million cubic feet. The total annual depletion during the five-year period was therefore estimated to have been about 3,900 million cubic feet. To what extent this loss has been replaced by growth increment is not known but, considering the preponderance of the younger age classes in the reproduction, it is believed there has been a considerable net depletion in the merchantable age classes.

Another real difficulty is the division of the existing stand into merchantable timber and that which is inaccessible or unprofitable, since merchantability depends not only on the location but on the density of the stand, the demands of the market for certain species or qualities of product, and the regulations as to cutting. Light stands covering large areas may in the aggregate carry very large amounts of timber and still not be exploitable at a profit. For some species, such as aspen and white birch, which comprise three-quarters of the hardwoods, there is very little demand, and therefore these cannot properly be classed as merchantable, though accessible as far as location is concerned.

In June, 1929, a conference of the Dominion and provincial forest authorities was held in Ottawa and it was decided to undertake a national inventory of the forest resources of Canada, each authority conducting the necessary stock-taking surveys on the land under its jurisdiction. In connection with the inventory definite data are being secured regarding the depletion due to use, fire, insect damage, etc., and the increment accruing. Five years was set as an objective for the completion of an inventory of at least the more accessible parts of the area but, though considerable progress has been made, the disturbed financial conditions have retarded the work in practically every province. The Forest Service of the Department of the Interior acts as a clearing house for the national inventory, and in addition to collecting and compiling the data furnished by the provincial authorities has conducted the inventorial work in the Prairie Provinces and New Brunswick.

The Dominion Service is also carrying on extensive surveys to determine the increment taking place in the forests and conducting more intensive silvicultural research at forest experiment stations located in Alberta, Manitoba, Ontario, Quebec and New Brunswick.

Under present conditions it is doubtful whether more than 135,000 million cubic feet of conifers and 30,000 million cubic feet of hardwoods can be considered as accessible.

**1.—Estimate of Total Accessible Stand of Timber in Canada, by Regions and Classes, with Estimate of Grand Total Stand, 1933.**

| Region.                                | Conifers.         |                  |                                      | Broad-leaved.     |                 |                                      | Totals.           |                  |                                      |
|----------------------------------------|-------------------|------------------|--------------------------------------|-------------------|-----------------|--------------------------------------|-------------------|------------------|--------------------------------------|
|                                        | Saw Material.     | Small Material.  | Total Equivalent in Standing Timber. | Saw Material.     | Small Material. | Total Equivalent in Standing Timber. | Saw Material.     | Small Material.  | Total Equivalent in Standing Timber. |
|                                        | million feet b.m. | 1,000 cords.     | 1,000 cubic feet.                    | million feet b.m. | 1,000 cords.    | 1,000 cubic feet.                    | million feet b.m. | 1,000 cords.     | 1,000 cubic feet.                    |
| Eastern Provinces.....                 | 90,315            | 560,570          | 85,365,675                           | 24,925            | 167,410         | 21,360,335                           | 115,240           | 727,980          | 106,726,000                          |
| Prairie Provinces.....                 | 11,995            | 63,513           | 10,057,926                           | 8,250             | 75,239          | 8,954,455                            | 20,245            | 138,752          | 19,012,381                           |
| British Columbia.....                  | 151,610           | 52,000           | 39,943,590                           | 500               | 930             | 197,850                              | 155,110           | 52,930           | 40,141,440                           |
| <b>Totals, Accessible Stand.....</b>   | <b>256,920</b>    | <b>676,083</b>   | <b>135,367,191</b>                   | <b>33,675</b>     | <b>243,579</b>  | <b>30,512,640</b>                    | <b>290,595</b>    | <b>919,662</b>   | <b>165,879,821</b>                   |
| <b>Totals, Inaccessible Stand.....</b> | <b>145,434</b>    | <b>418,027</b>   | <b>80,868,939</b>                    | <b>11,826</b>     | <b>184,247</b>  | <b>20,095,549</b>                    | <b>157,760</b>    | <b>602,276</b>   | <b>100,964,498</b>                   |
| <b>Grand Totals.....</b>               | <b>402,354</b>    | <b>1,094,112</b> | <b>216,236,130</b>                   | <b>45,501</b>     | <b>427,826</b>  | <b>50,608,189</b>                    | <b>448,355</b>    | <b>1,521,938</b> | <b>266,844,319</b>                   |

## Section 5.—Forest Administration.

### Subsection 1.—Administration of Dominion and Provincial Timber Lands.

In Canada the general policy of both the Dominion Government and the Provincial Governments has been to dispose of the timber by means of licences to cut, rather than to sell timber land outright. Under this system the State retains the ownership of the land and control of the cutting operations. Revenue is derived in the form of stumpage bonuses (either in lump sums or in payments made as the timber is cut), annual ground rent, and royalty dues collected as and when the wood is removed. Both ground rent and royalty dues may be adjusted at the discretion of the Governments so that the public may share in any increase in stumpage values or, as has happened, reductions may be made in the rates if conditions demand them.

The Maritime Provinces did not adopt this policy to the same extent as did the rest of Canada. In Prince Edward Island all the forest land has been alienated and is in small holdings, chiefly farmers' woodlots. In Nova Scotia 76 p.c. of the forest land is privately owned; nearly half of this is in holdings exceeding 1,000 acres. In New Brunswick nearly 50 p.c. has been sold, and 20 p.c. is in holdings exceeding 1,000 acres. The percentage of privately-owned forest land in the other provinces is as follows: Quebec, 7 p.c.; Ontario, 3.3 p.c.; Manitoba, 11.3 p.c.; Saskatchewan, 10.4 p.c.; Alberta, 15.7 p.c. and British Columbia, 13 p.c.

Until 1930 the Dominion Government administered the Crown lands, including timber lands, in the provinces of Manitoba, Saskatchewan and Alberta, in the Railway Belt and Peace River Block of British Columbia, and in Yukon and the North-



west Territories, but the forests as well as the other natural resources in the western provinces have now been transferred to provincial control. In all cases timber lands are now administered by the provinces in which they lie. As new regions are explored their lands are examined and the agricultural land disposed of. Absolute forest land is usually set aside for timber production, and the policy of disposing of the title to lands fit only for the production of timber has been virtually abandoned in every province in Canada. The ownership of forests by towns and communities, so common in Europe, is now beginning in Canada. Efforts are being made, especially in Quebec and Ontario, to encourage the establishment and maintenance of forests on this basis.

**Timber Lands under Dominion Control.**—The National Parks of Canada Branch of the Department of the Interior administers the Dominion parks, now embracing about 29,363 square miles. These are primarily national playgrounds and game preserves, the timber being practically withdrawn from commercial use. The Dominion Lands Administration of the Department of the Interior administers and protects forest land lying north of the provincial areas. The Department of Indian Affairs administers, in trust for the Indians, all timbered areas within their reservations. The Board of Railway Commissioners has charge of fire protection along practically all the railway lines in Canada.

**Forest Administration in the Prairie Provinces.**—Upon the transfer of the natural resources in 1930, each province took steps toward the creation of an adequate forest service with a Provincial Forester in charge. In Manitoba the service is under the Department of Mines and Natural Resources and in its forest regulations, framed under the Manitoba Forest Act, the former Dominion Forest Reserves and Crown Timber Regulations are very largely incorporated. In Saskatchewan and Alberta a closely similar policy is being followed. In every case the central object of policy is to safeguard the regeneration of valuable species in the natural forest types. The national forests in these provinces have practically all been retained as provincial forests and some additional reserves have been established, making a total area of 32,458 square miles. Approximately 27,335 square miles of forest lands in the Prairie Provinces are privately owned.

**British Columbia.**—In the province of British Columbia, the Forest Branch of the Department of Lands has administered timber lands since 1912. All unalienated lands in the province which are found to be better suited to forest than to agricultural production are dedicated to forest production, and all timber lands carrying over a specified quantity of timber are withdrawn from disposal until examined by the Forest Branch. During the last few years 15,964 square miles have been set aside permanently for forest purposes. The present practice is to sell cutting rights for a stated period by public competition but licences to cut, which are renewable annually in perpetuity, have been granted for a large proportion of the accessible timber. The royalties are adjusted periodically on the basis of prevailing industrial conditions. About 18,150 square miles of timber land are privately owned.

**Ontario.**—Forest administration is carried out in Ontario under the Department of Lands and Forests, which is subdivided into two divisions each under a Deputy Minister. The Lands and Forests Division controls timber sales and the Forestry Division has charge of reforestation, protection, air service, forest surveys and investigations. The Forestry Board, consisting of representatives of forest industries, the University of Toronto Faculty of Forestry and the Deputy Minister of Forestry, acts in an advisory capacity.



In recent years the sale of saw timber has been by tender after examination, with conditions covering the removal within a specified period, disposal of debris, etc. Much of the merchantable timber is at present held under licences granted in the past and renewable indefinitely. Pulpwood areas are usually disposed of by individual agreements for longer periods than in the case of saw timber. Manufacture in Canada was made a condition in the disposal of all softwood saw timber in 1897, of all pulpwood in 1900 and of all hardwood in 1924. In some individual pulpwood agreements the licensee must undertake not only to erect a pulp-mill but also a paper-mill within the province, the type of mill being stipulated in the agreement. In this province about 7,972 square miles of forest land have been disposed of outright. Provincial forest reserves cover 19,607 square miles.

**Quebec.**—The Forest Service of the Department of Lands and Forests administers the timber lands in Quebec. Its powers include classification of land, disposal of timber and regulation of cutting operations. Since 1924 forest protection has been under a separate organization, the Forest Protective Service. Licences are granted after public competition and are renewable from year to year, subject to changes in royalty by the Government at any time. Grants of land in fee simple, made in some cases under the French *régime* in Quebec, are responsible for the private ownership of about 34,173 square miles of forest land. An area of 28,960 square miles has been reserved for forestry purposes.

**New Brunswick.**—The Forest Service, under the Department of Lands and Mines, and a special Forestry Advisory Commission are the forest authority in New Brunswick. The Forestry Advisory Commission, consisting of the Minister of Lands and Mines, the Deputy Minister, the Chief Forester, a lumberman representing the licensees of Crown lands, and one representing the private timberland owners, is appointed to advise on matters of policy. At present timber lands are disposed of as in the other provinces, but in the past several grants of forest land were made to railway companies, private concerns and individuals, who now own in fee simple about 10,675 square miles of forest land.

**Nova Scotia.**—In Nova Scotia the greater part of the forest land, amounting to 12,000 square miles, has passed into private ownership, but the system of disposal of timber by licences to cut is now being followed. What remains vested in the Crown is administered by the Chief Forester under the Minister of Lands and Forests. Under the Minister, the Chief Forester has charge of forest protection, surveying and sealing throughout the province.

### Subsection 2.—Forest Fire Protection.

The protection of forests from fire is undoubtedly the most urgent and most important part of the work of the different agencies administering forest lands in Canada. Except for the forests of the National Parks and the Northwest Territories and Yukon, which remain under Dominion control, the administration of forest lands is now the function of the individual provinces. Up to the end of the fire season of 1930, the Forest Service of the Department of the Interior was responsible for fire protection in the prairie provinces of Manitoba, Saskatchewan, and Alberta, and the Railway Belt of British Columbia. However, by reason of the transfer of natural resources from Dominion to provincial control, their administration is now a matter of provincial concern.

Each of the Provincial Governments, except that of Prince Edward Island, maintains a fire protection organization co-operating with owners and licensees for the protection of all timbered areas, the cost being in part distributed or covered by special taxes on timber lands. In each province, with the exception just mentioned, provincial legislation regulates the use of fire for clearing and other legitimate purposes, and provides for closed seasons during dangerous periods. An interesting development in this connection in the province of Quebec is the organization of a number of co-operative protective associations among lessees of timber limits. These associations have their own staffs which co-operate with those of the Board of Railway Commissioners and the Provincial Government. The latter contributes money grants and also pays for the protection of vacant Crown lands lying within the area of the associations' activities.

In the matter of forest fire protection along railway lines, the provincial services are assisted by the Dominion Railway Act administered by the Board of Railway Commissioners. This Act gives to that body wide powers relating to fire protection along railway lines under its jurisdiction in Canada. Certain officers of the various forest authorities are appointed *ex officio* officers of the Board of Railway Commissioners. These officers co-operate with the railway fire-ranging staffs employed by the various railway companies, the compulsory control of all lines coming under the jurisdiction of the Board being one of the requirements of the Dominion Railway Act.

The most important single development of late years in forest fire protection has been the use of aircraft for the detection and suppression of incipient forest fires. Where lakes are numerous, flying boats can be used for detection and for the transportation of fire fighters and their equipment to fires in remote areas. Specially developed aircraft equipped with wireless are employed on forest fire-protection operations; these enable the observer to report the location of a fire as soon as it has been detected. Aircraft are now being used extensively for exploring remote areas and mapping forest lands by means of aerial photography. Waste lands and the various forest types can be mapped more accurately and more economically by this means than by ground surveys. As a general rule aircraft are used in the more remote districts, while lookout towers, connected by telephone lines or equipped with wireless, are established in the more settled and more travelled forest areas. While these agencies have to a large extent supplanted the old canoe, horseback and foot patrol for detection of fires, a large ground staff with its equipment stored at strategic points will always be necessary for the fighting of larger fires and the maintenance of systems of communication and transportation, and of fire lanes and fire guards in the forest.

The most important improvement in forest fire-fighting equipment has been the portable gasoline pump. These pumps, which each weigh from 45 to a little over 100 pounds, can be carried to a fire by canoe, motor boat, automobile, aircraft, pack saddle or back pack. They can deliver efficient water pressure as far as seven thousand feet from a water supply and, when used in relays, at a much greater distance. Smaller hand pumps are also used effectively in many cases.

In addition to these improved measures, the enactment of legislation has tended to reduce the fire menace. The establishment of closed seasons for brush burning, and seasons during which permits are required for setting out fires and for travel in the forest during dangerous dry periods, have been of enormous value as preventive measures.

Since its beginning in 1900, the Canadian Forestry Association has played an important part in securing popular co-operation in reducing the fire hazard. By means of its attractive magazine, which has a circulation of over 16,000, railway lecture cars and motor trucks provided with motion picture equipment, and by co-operation with radio broadcasting stations and the press, the Association reaches a large proportion of the population of the Dominion. Special efforts are made through the schools, by specially appointed junior forest wardens and other means to educate the younger generation as to the value of the forests, the devastation caused by fire and the means of preventing such destruction.

Prepared lectures illustrated by slides and films are distributed to volunteer lecturers and other educational work is carried on in schools and at public meetings. The various governmental forest authorities also carry on forest conservation publicity work independently and in co-operation with the Canadian Forestry Association.

Another interesting development in forest protection has been the establishment of special meteorological stations for the study of the effects of weather conditions on the fire hazard, and the broadcasting of special forecasts of hazardous fire weather.

### **Subsection 3.—Scientific Forestry.**

Up to the present, the practice of forestry in Canada has consisted chiefly in the administration and protection of existing forest areas. About 35 square miles is now being planted out annually, largely in connection with farmers' woodlots, shelter belts, and reclamation work, while several commercial reforestation projects have been carried on by paper companies and by the Ontario Government on denuded Crown lands. The great forestry problem in Canada, however, is the management of Crown forests, first under provisional and later more intensive working plans, so as to ensure a sustained yield. To this end, forest research activities are now assuming great importance. Silvicultural investigations are receiving marked attention both from the Dominion services and some of the provincial services.

About 250 technical foresters find employment either under the Dominion and provincial forest services or with paper and lumber companies. In addition to administrative work, these men carry on forest surveys either for the estimation of timber stands and making of maps, or to determine natural growth and reproduction conditions and factors. They also direct any planting or nursery work and direct the regulation of commercial logging operations along forestry lines.

The Research Division of the Dominion Forest Service has established permanent forest experiment stations at Petawawa, Ontario, and at Lake Edward, near Grand'Mère, in Quebec, and carries on similar experimental work at other points throughout Canada. A considerable amount of this work is done in co-operation with provincial forest services and with pulp and lumber companies.

The Forest Service of the Department of the Interior is now conducting a National Forest Inventory in co-operation with the various Provincial Governments (see p. 318). An important feature is that the Forest Service is carrying on special rate-of-growth surveys in each province to determine the nature and extent of the natural reproduction and the annual increment now being secured under varying conditions of site and type, following cutting or forest fires. The valuable silvical data thus obtained will provide a sound basis for future forest policies.

Another important phase of forest research is found in the work of the Dominion Forest Products Laboratories in determining the best methods of forest utilization, that is, the converting of standing timber into saleable commodities with a minimum of waste. These laboratories, established by the Dominion Forest Service at Ottawa and in connection with the University of British Columbia at Vancouver, carry on investigatory work in forest products, covering the strength, durability and other mechanical, physical and chemical qualities of Canadian woods, methods of seasoning, preservation from decay, and chemical utilization in wood distillation and other industries. A special pulp and paper division of the laboratories is located in Montreal, the recognized business centre of the industry, in the Cellulose Institute of the Canadian Pulp and Paper Association. The division is in close co-operation in this connection with the Association and with McGill University. Much credit is due to the forestry departments of some of the pulp companies for pioneering work in forest research.

Education in forestry and allied subjects and opportunities for research are offered by four Canadian universities and by other agencies. The University of Toronto, the University of New Brunswick and the University of British Columbia, provide four-year courses leading to a professional degree. The School of Forestry and Surveying in connection with Laval University at Quebec provides, in the French language, a combined course of four years duration leading to diplomas in both sciences. The Government of Quebec has established a school in paper-making at Three Rivers in the heart of the paper industry; several agricultural colleges provide short courses in farm forestry and a school for forest rangers has been established at Berthierville by the Quebec Forest Service.

The practice of forestry by individuals and private concerns is encouraged by the furnishing of expert advice by Dominion and provincial services and by the distribution of tree-planting material. The Dominion Department of Agriculture maintains two nurseries in Saskatchewan, one at Indian Head and the other at Sutherland, near Saskatoon. Over 7,000,000 trees are distributed annually to farmers and ranchers in the Prairie Provinces for planting woodlots and wind-breaks. If certain conditions are fulfilled, the material and instructions are provided free except for transportation charges. A total of over 125,000,000 trees has been distributed.

The province of Ontario provides material under similar conditions and distributes to woodlot owners at least 7,000,000 trees annually from its five nurseries. As many more are being provided for the creation of county forests, demonstration forests and plantations on denuded Crown lands. To encourage the establishment of communal forests by towns and other municipalities, the Provincial Government undertakes to plant, free of charge, any area purchased by the municipality for this purpose. The Government also assists counties that purchase areas of not less than 1,000 acres of land for forest purposes. As a result of these inducements there are at present, scattered throughout the province, 50 communal forests (owned by municipalities) and eight of the larger county forests. Farm land used for forestry purposes, while so used, is exempt from taxation up to 10 p.c. of the total farm area but not exceeding a total of 20 acres.

In Quebec, a forest nursery at Berthierville serves as a demonstration station for the School of Forestry and as a location for the forest ranger school. It provides trees for sale and distribution in the province, comprising seedlings and transplants



for forest planting and larger trees for ornamental purposes. The capacity of the nursery is about 10,000,000 trees. Provision is made by legislation for the creation of communal forests and there are now 76 of these, covering 594,059 acres.

### Section 6.—Forest Utilization.\*

**Historical.**—The forest has always played a large part in the life of the pioneer in Eastern Canada, providing him with building material and fuel but opposing his agricultural efforts. The material removed in clearing the first fields was usually more than sufficient for his needs, and in many cases what would now be considered valuable timber was burned by the early settler. Local trade in lumber began in New France shortly after 1650. The first attempts at forest conservation took the form of setting aside areas of timber for the use of the navy, and the first exports were of shipbuilding material and spars. Sawmills were established along the St. Lawrence before the close of the seventeenth century. While there was no recorded transatlantic trade in forest products other than naval supplies, shipments of lumber and staves were made to the French West Indies during the French *régime*. Shipbuilding became an important local industry and gave rise to considerable forest exploitation.

Transatlantic trade began to develop after the Conquest, stimulated by bounties and tariff privileges granted with the object of reducing England's dependence on Baltic supplies, especially in connection with naval material. This trade, however, did not develop satisfactorily until the beginning of the nineteenth century, when Napoleon succeeded in interfering seriously with British imports of wood from the Baltic. The export of timber from Canada increased enormously, and the square-timber trade in white pine and oak spread from the St. Lawrence and Richelieu valleys to Lake Champlain and Upper Canada, especially the Ottawa valley. This trade reached its height in the '60's and has steadily declined since that time.

Sawmilling on a large scale followed the square-timber trade and the establishment of small custom mills followed in the wake of the settler. The building of wooden ships in the St. Lawrence valley and the Maritime Provinces developed hand in hand with the lumber industry, providing a local demand for timber and a means of exporting it overseas. The British preferences were reduced and finally abolished about 1860.

The export trade in sawn lumber to the United States developed from 1820 to 1830 and gradually replaced the more wasteful overseas square-timber trade, but it was not until after Confederation that the export of sawn lumber by sea exceeded that of square timber.

Encouraged by the free entry of raw materials into the United States, an important trade developed, especially in Ontario, in the exportation of sawlogs to be sawn into lumber in United States mills. The Provincial Government prohibited the exportation of this material, when cut on Crown lands, about 1900 and effectively checked this economic loss. Similar legislation has since been passed by the Dominion and the other Provincial Governments and has been extended to pulpwood and other raw or unmanufactured forest products.

The lumber industry which began in Quebec and New Brunswick and extended into Upper Canada has since moved gradually through southern Ontario, along the upper Ottawa and its tributaries, around Georgian bay into northern Ontario and through the Lake of the Woods and Rainy River districts. It is still an important

\*An article on "The History of the Canadian Lumber Trade", by A. R. M. Lower, M.A., appears at pp. 318-323 of the 1925 edition of the Canada Year Book.

industry in these regions. Lumbering to the north of the prairies, where the timber was never particularly large nor abundant, has progressed with the settlement of the district but the production does not usually exceed the local demand. In 1908 British Columbia provided less than a fifth of Canada's lumber production but in 1932 this proportion had increased to more than fifty per cent, showing the westward movement of the centre of production. British Columbia has added several new tree species to the lumber market and at present possesses the heaviest stands and the largest individual trees in Canada.

Remarkable developments in the manufacture of pulp and paper early in the twentieth century led to a remarkable increase of forest exploitation in Eastern Canada, giving rise to an industry which surpassed the manufacture of lumber and is to-day the most important manufacturing industry in Canada and the source of the greatest single item in our exports next to wheat.

### Subsection 1.—Woods Operations.

Differences in forest conditions throughout Canada give rise to differences in logging methods. Generally speaking, throughout Eastern Canada the climate is such that the cutting and hauling of logs can be carried on most economically during the fall and winter months. The trees are felled and the logs hauled to the nearest stream or lake, where they are piled on the ice or sloping banks. The presence of connected systems of lakes and streams makes it possible in most cases to float the logs from the forest to the mill at a minimum cost during the annual spring freshets. The logging industry east of the Rocky mountains is therefore almost entirely seasonal. In many cases lumbermen co-operate in river-driving operations and improvement companies, financed by the logging operators, build river improvements to facilitate the passage of the floating logs, the logs being finally sorted and delivered to their respective owners. In British Columbia the scarcity of drivable streams and the greater average size of the logs give rise to entirely different logging methods. Logs are assembled by cable systems operated by donkey engines and are transported to the mills or to water chiefly by logging railways but in some cases by motor trucks. These operations are more or less independent of frost, snow or freshet and are carried on in most cases throughout the entire year.

In Eastern Canada logging operations are usually carried on by the mill owners or licensees of timbered lands, often through the medium of contractors, sub-contractors and jobbers. In the better-settled parts of the country a considerable quantity of lumber is sawn by custom sawmills or small mills purchasing logs from the farmers. Unmanufactured pulpwood, poles, ties and other forest products have a market value, but sawlogs, being as a rule the property of the mill-owner, are not generally marketed as such in Eastern Canada. In British Columbia logging is carried on more frequently as a separate enterprise by limit-holders, who cut and sell logs on the market. In many cases mill operators are not limit-holders but buy their entire supplies of raw material from logging concerns.

In connection with operations in the woods it should be borne in mind that the forests not only provide the raw material for the sawmills, pulp-mills, wood distillation, charcoal, excelsior and other plants but that they also provide logs, pulpwood and bolts for export in the unmanufactured state, and fuel, poles, railway ties, posts and fence rails, mining timber, piling and other primary products, which are finished in the woods ready for use or exportation. There are also a number of minor forest products, such as maple sugar and syrup, balsam gum, resin, cascara, moss and tanbark, which all go to swell the total.

Table 2 gives the total value of the products of woods operations in Canada for the years 1928 to 1932 inclusive. The exports and imports of forest products in the fiscal years ended Mar. 31, 1931-34 are shown in Tables 12 and 13 of the chapter on External Trade.

2.—Values of Woods Operations, by Products, 1928-32.<sup>1</sup>

| Product.                    | 1928.              | 1929.              | 1930.              | 1931.              | 1932.             |
|-----------------------------|--------------------|--------------------|--------------------|--------------------|-------------------|
|                             | \$                 | \$                 | \$                 | \$                 | \$                |
| Logs and bolts.....         | 76,431,481         | 79,278,543         | 75,563,041         | 32,889,204         | 18,029,759        |
| Pulpwood.....               | 74,848,077         | 76,120,063         | 67,529,612         | 44,237,948         | 36,750,910        |
| Firewood.....               | 41,164,270         | 41,764,507         | 43,786,064         | 51,973,243         | 30,627,632        |
| Hewn railway ties.....      | 5,871,724          | 5,730,423          | 5,038,899          | 4,144,169          | 1,353,664         |
| Square timber.....          | 3,772,137          | 4,179,077          | 2,945,748          | 151,114            | 99,403            |
| Poles.....                  | 4,934,371          | 6,677,559          | 6,733,259          | 3,057,546          | 1,411,209         |
| Round mining timber.....    | 998,146            | 1,028,126          | 885,343            | 958,681            | 809,700           |
| Fence posts.....            | 1,506,050          | 1,674,489          | 1,585,985          | 1,388,074          | 990,568           |
| Wood for distillation.....  | 476,726            | 455,957            | 335,330            | 266,080            | 251,281           |
| Fence rails.....            | 463,469            | 477,569            | 624,968            | 454,205            | 253,077           |
| Miscellaneous products..... | 2,484,348          | 2,183,816          | 1,825,245          | 1,603,666          | 1,529,049         |
| <b>Totals.....</b>          | <b>212,950,799</b> | <b>219,570,129</b> | <b>206,853,494</b> | <b>141,123,930</b> | <b>92,106,252</b> |

<sup>1</sup>The value of woods operations for 1933, made available at the time of going to press, is \$93,773,143.

It has been estimated that operations in the woods in Canada in 1932 involved the investment of \$95,000,000 in logging equipment, gave employment for a part of the year equivalent to 60,000 man-years, and distributed over \$43,200,000 in wages and salaries. In estimating the annual drain on our forest resources, certain converting factors have been used. Each of these factors represents in cubic feet the quantity of standing timber that must be cut in the forest to produce one unit of the material in question, based on the total cubic contents of the tree. By the use of these factors it has been estimated that the total drain on our forest resources in 1932, due to consumption for use, amounted to 1,882,228,308 cubic feet. To this total must be added the volume of material destroyed by fire, insects and fungi, which would bring the average annual depletion for the period 1928-32 to approximately 3,815,000,000 cubic feet of standing timber. Table 3 gives the reported or estimated quantities of wood cut, by chief products, together with the respective converting factor, the equivalent in standing timber and the estimated value in each case for 1931 and 1932. Table 4 shows the extent of the drain on our forest resources in 1931 and 1932, by provinces.

3.—Quantities of Wood Cut in Woods Operations in Canada, Equivalents in Standing Timber and Total Values, by Chief Products, 1931 and 1932.

| Product.                           | Quantity Reported or Estimated. | Converting Factor. | Equivalent Volume in Standing Timber. | Total Value.       |
|------------------------------------|---------------------------------|--------------------|---------------------------------------|--------------------|
|                                    |                                 |                    | cubic feet.                           | \$                 |
| <b>1931.</b>                       |                                 |                    |                                       |                    |
| Logs and bolts..... M ft. b.m.     | 2,674,817                       | 219                | 585,784,923                           | 32,889,204         |
| Pulpwood..... cords                | 5,046,291                       | 117                | 590,416,047                           | 51,973,243         |
| Firewood..... "                    | 10,253,700                      | 95                 | 974,101,500                           | 44,237,948         |
| Hewn ties..... number              | 6,593,232                       | 12                 | 79,118,784                            | 4,144,169          |
| Square timber..... M ft. b.m.      | 2,369                           | 219                | 518,811                               | 151,114            |
| Poles..... number                  | 675,008                         | 13                 | 8,775,104                             | 3,057,546          |
| Round mining timber..... cubic ft. | 4,746,441                       | 1.3                | 6,170,373                             | 958,681            |
| Posts..... number                  | 14,274,059                      | 2                  | 28,548,118                            | 1,388,074          |
| Wood for distillation..... cords   | 31,302                          | 123                | 3,850,146                             | 266,080            |
| Fence rails..... number            | 5,312,959                       | 3                  | 10,625,918                            | 454,205            |
| Miscellaneous products..... cords  | 155,846                         | 117                | 18,233,982                            | 1,603,666          |
| <b>Totals, 1931.....</b>           | <b>-</b>                        | <b>-</b>           | <b>2,306,143,706</b>                  | <b>141,123,930</b> |

**3.—Quantities of Wood Cut in Woods Operations in Canada, Equivalents in Standing Timber and Total Values, by Chief Products, 1931 and 1932—concluded.**

| Product.                    | Quantity Reported or Estimated. | Converting Factor. | Equivalent Volume in Standing Timber. | Total Value.      |
|-----------------------------|---------------------------------|--------------------|---------------------------------------|-------------------|
|                             |                                 |                    | cubic feet.                           | \$                |
| 1932.                       |                                 |                    |                                       |                   |
| Logs and bolts.....         | M ft. b.m. 2,165,781            | 219                | 474,308,039                           | 18,029,759        |
| Pulpwood.....               | cords 4,222,224                 | 117                | 494,000,208                           | 36,750,910        |
| Firewood.....               | 8,459,322                       | 95                 | 803,635,590                           | 30,627,632        |
| Hewn ties.....              | number 2,522,647                | 12                 | 30,271,764                            | 1,353,664         |
| Square timber.....          | M ft. b.m. 1,592                | 219                | 348,648                               | 99,403            |
| Poles.....                  | number 309,619                  | 13                 | 4,025,047                             | 1,411,209         |
| Round mining timber.....    | cubic ft. 4,471,764             | 1.3                | 5,813,293                             | 809,700           |
| Posts.....                  | number 14,049,713               | 2                  | 28,099,426                            | 990,568           |
| Wood for distillation.....  | cords 38,189                    | 123                | 4,697,247                             | 251,281           |
| Fence rails.....            | number 4,688,606                | 3                  | 14,065,818                            | 253,077           |
| Miscellaneous products..... | cords 196,284                   | 117                | 22,965,228                            | 1,529,049         |
| <b>Totals, 1932.....</b>    | <b>—</b>                        | <b>—</b>           | <b>1,882,228,308</b>                  | <b>92,106,252</b> |

**4.—Equivalent Volumes of Standing Timber Cut in Canada and Values of Products of Woods Operations, by Provinces, 1931 and 1932.**

| Province.                 | Equivalent Volumes in Standing Timber. |                      | Total Values.      |                   |
|---------------------------|----------------------------------------|----------------------|--------------------|-------------------|
|                           | 1931.                                  | 1932.                | 1931.              | 1932.             |
|                           | cubic ft.                              | cubic ft.            | \$                 | \$                |
| Prince Edward Island..... | 10,650,577                             | 12,036,582           | 507,593            | 504,017           |
| Nova Scotia.....          | 121,560,040                            | 101,098,687          | 7,414,836          | 5,800,093         |
| New Brunswick.....        | 154,368,599                            | 99,805,603           | 9,982,658          | 6,065,709         |
| Quebec.....               | 646,317,624                            | 706,101,550          | 45,344,956         | 34,250,349        |
| Ontario.....              | 604,631,925                            | 401,862,673          | 39,675,042         | 22,969,973        |
| Manitoba.....             | 84,935,609                             | 52,261,887           | 4,170,223          | 1,637,442         |
| Saskatchewan.....         | 101,603,910                            | 71,917,795           | 4,598,193          | 1,813,742         |
| Alberta.....              | 102,251,513                            | 90,221,411           | 4,916,683          | 2,604,952         |
| British Columbia.....     | 479,823,909                            | 346,922,120          | 24,513,746         | 16,459,975        |
| <b>Totals.....</b>        | <b>2,306,143,706</b>                   | <b>1,882,228,308</b> | <b>141,123,930</b> | <b>92,106,252</b> |

**Subsection 2.—The Pulp and Paper Industry.**

The manufacture of pulp and paper is a comparatively recent development in Canadian industry. Paper was first manufactured in Canada about a hundred years ago but prior to 1860 no wood-pulp was used or produced. Rags, straw, esparto grass, cotton waste and other substances were the raw materials used. The first paper-mill was established at St. Andrews in Quebec (then Lower Canada) in 1803 by United States citizens who obtained concessions from the seigneurs. Upper Canada's first mill, which is still in operation, was built in 1813 at Crook's Hollow (now Greensville) near Hamilton, and the Maritime Provinces entered the industry in 1819 with a mill at Bedford Basin near Halifax.

In 1866, Alexander Buntin installed at Valleyfield, Quebec, what is claimed to have been the first wood grinder in America and began the manufacture of wood-pulp by the mechanical process. During the same year Angus Logan and Co. built the first chemical wood-pulp mill in Canada at Windsor Mills in Quebec. During the next decade the use of wood-pulp in paper-making was extensively developed and in 1887 Charles Riordon installed the first sulphite mill in Canada at Merritton in the Niagara Peninsula; by the beginning of the century the output of the industry had exceeded \$8,000,000. In 1907 the Brompton Pulp and Paper



Co. built, at East Angus in Quebec, the first mill in America to manufacture chemical pulp by the sulphate or kraft process.

The gross output of the industry increased rapidly and steadily until the boom years following the Great War, when it jumped to a peak of over \$232,000,000 in 1920. This was followed by a drop in 1921, following which there was a steady recovery, resulting in a total for 1929 of \$243,970,761 exceeding the abnormally high total value reported in 1920. This was followed by annual decreases down to 1933.

The rapid development of this industry up to 1929 was due chiefly to the existence in Canada of abundant water powers adjacent to extensive forest resources of pulpwood species and an increasing demand for newsprint paper in the United States. Summary statistics for the combined pulp and paper industry are given on p. 337.

There are to-day three classes of mills in the industry. These in 1933 numbered 28 mills making pulp only, 42 combined pulp and paper-mills, and 25 mills making paper only.

The industry in Canada includes three forms of industrial activity, the operations in the woods with pulpwood as a product, the manufacture of pulp and the manufacture of paper. These three stages cannot be treated as entirely distinct nor can they be separated from the different stages of the lumber industry. Some of the important pulp companies operate sawmills to utilize the larger timber on their limits to the best advantage, and many lumber manufacturers divert a proportion of their spruce and balsam logs to pulp-mills. So far as operations in the woods are concerned, it is often impossible to state whether the timber being cut will eventually be made into lumber or into pulpwood.

On account of legislation already referred to, pulpwood cut on Crown lands must, in every province, be manufactured into pulp in Canadian pulp-mills except under special permit. The pulpwood which is exported to the United States is therefore largely cut from private lands. Table 5 shows the annual production of this commodity from 1920 to 1933, together with the quantities used by Canadian pulp-mills and the quantities exported. For figures for the years 1908 to 1919, inclusive, see the 1931 Year Book, p. 288.

##### 5.—Production, Consumption, Exports and Imports of Pulpwood, calendar years 1920-33.

| Year.     | Apparent Total Production of Pulpwood in Canada. |              |                         | Canadian Pulpwood Used in Canadian Pulp-mills. |                               | Canadian Pulpwood Exported Unmanufactured. <sup>1</sup> |                               | Imported Pulpwood Used in Canada. |                               |
|-----------|--------------------------------------------------|--------------|-------------------------|------------------------------------------------|-------------------------------|---------------------------------------------------------|-------------------------------|-----------------------------------|-------------------------------|
|           | Quantity.                                        | Total Value. | Average Value per cord. | Quantity.                                      | Per cent of Total Production. | Quantity.                                               | Per cent of Total Production. | Quantity.                         | Per cent of Total Production. |
|           | cords.                                           | \$           | \$                      | cords.                                         | p.c.                          | cords.                                                  | p.c.                          | cords.                            | p.c.                          |
| 1920..... | 4,024,826                                        | 61,133,060   | 15.22                   | 2,777,422                                      | 69.0                          | 1,247,404                                               | 31.0                          | None Reported.                    |                               |
| 1921..... | 3,273,131                                        | 52,900,872   | 16.16                   | 2,180,578                                      | 66.6                          | 1,092,553                                               | 33.4                          |                                   |                               |
| 1922..... | 3,923,940                                        | 50,735,361   | 12.93                   | 2,912,608                                      | 74.2                          | 1,011,332                                               | 25.8                          |                                   |                               |
| 1923..... | 4,654,663                                        | 57,119,596   | 12.27                   | 3,270,433                                      | 70.3                          | 1,384,230                                               | 29.7                          |                                   |                               |
| 1924..... | 4,647,201                                        | 57,777,040   | 12.43                   | 3,316,951                                      | 71.4                          | 1,330,250                                               | 28.6                          |                                   |                               |
| 1925..... | 5,092,461                                        | 62,181,537   | 12.21*                  | 3,668,959                                      | 72.0                          | 1,423,502                                               | 28.0                          |                                   |                               |
| 1926..... | 5,621,305                                        | 68,100,303   | 12.11*                  | 4,229,567                                      | 75.2                          | 1,391,738                                               | 24.8                          |                                   |                               |
| 1927..... | 5,929,496*                                       | 70,284,895   | 11.85                   | 4,387,687                                      | 74.0                          | 1,541,769                                               | 26.0                          |                                   |                               |
| 1928..... | 6,295,912                                        | 74,587,343*  | 11.85                   | 4,763,646                                      | 75.7                          | 1,532,266                                               | 24.3                          |                                   |                               |
| 1929..... | 6,536,335                                        | 76,120,063   | 11.65                   | 5,241,340                                      | 80.2                          | 1,294,995                                               | 19.8                          | 32,674                            | 0.7                           |
| 1930..... | 5,977,183                                        | 67,529,612   | 11.30                   | 4,646,717                                      | 77.7                          | 1,330,466                                               | 22.3                          | 37,082                            | 0.7                           |
| 1931..... | 5,046,291                                        | 51,973,243   | 10.30                   | 4,088,988                                      | 81.0                          | 957,303                                                 | 19.0                          | 94,632                            | 1.6                           |
| 1932..... | 4,222,224                                        | 36,750,910   | 8.70                    | 3,602,100                                      | 85.3                          | 620,124                                                 | 14.7                          | 59,291                            | 1.4                           |
| 1933..... | 4,746,382                                        | 33,213,973   | 7.00                    | 4,027,827                                      | 84.9                          | 718,555                                                 | 15.1                          | 45,654                            | 1.1                           |
|           |                                                  |              |                         |                                                |                               |                                                         |                               | 17,048                            | 0.4                           |

<sup>1</sup>Exports of pulpwood in the calendar year 1934 were 923,219 cords. <sup>2</sup>Revised since the publication of the 1933 Year Book.

In 1908 almost two-thirds of the pulpwood cut in Canada was exported in the raw or unmanufactured form but by 1916 the proportion had declined to two-fifths. In 1933 the proportion exported was less than one-fifth.

The manufacture of pulp is the second stage in this industry. This is carried on by mills producing pulp alone and also by paper manufacturers operating pulp-mills in conjunction with paper-mills to provide their own raw material. Such mills usually manufacture a surplus of pulp for sale in Canada or for export.

The supply of rags for paper-making is distinctly limited and the material too expensive for the manufacture of cheap paper. Early paper-makers experimented with fibres from the stems, leaves and other parts of numerous annual plants, but the small proportion of paper-making material recoverable from such sources led to experiments in the use of wood. Different species were tried, and finally spruce and balsam fir were found to be the most suitable for the production of all but the best classes of paper.

The preliminary preparation of pulpwood is frequently carried on at the pulp-mill, but there are in Canada a number of "cutting-up" and "rossing" mills operating on an independent basis, chiefly for the purpose of saving freight on material cut at a distance from the mill or on material intended for exportation. Pulpwood is measured by the cord (4' by 4' by 8' of piled material), which is approximately equivalent to 500 feet board measure or to 90 cubic feet of solid wood.

There are, in Canada, four methods of preparing wood-pulp, one of which is mechanical and three chemical. Detailed descriptions of these processes were given in the 1931 Year Book, pp. 290-291.

**Pulp Production.**—Table 6 shows the total production of pulp in Canada from 1920 to 1933 inclusive, together with the production of groundwood pulp and the production of fibre by the chemical processes described. Comparable statistics for 1908 to 1919 inclusive appear at p. 293 of the 1931 Year Book.

**6.—Pulp Production, Mechanical and Chemical, calendar years 1920-33.**

| Year.     | Total Production. <sup>1</sup> |             | Mechanical Pulp. |            | Chemical Fibre.        |                         |
|-----------|--------------------------------|-------------|------------------|------------|------------------------|-------------------------|
|           | Quantity.                      | Value.      | Quantity.        | Value.     | Quantity.              | Value.                  |
|           | tons.                          | \$          | tons.            | \$         | tons.                  | \$                      |
| 1920..... | 1,960,102                      | 141,552,862 | 1,090,114        | 49,890,337 | 848,528                | 90,053,999              |
| 1921..... | 1,549,082                      | 78,338,278  | 931,560          | 32,313,848 | 612,467                | 45,929,513              |
| 1922..... | 2,150,251                      | 84,947,598  | 1,241,185        | 31,079,429 | 897,533                | 53,615,692              |
| 1923..... | 2,475,904                      | 99,073,203  | 1,419,547        | 37,587,379 | 1,012,092              | 60,674,518              |
| 1924..... | 2,465,011                      | 90,323,972  | 1,427,782        | 36,165,901 | 986,242                | 53,333,823 <sup>2</sup> |
| 1925..... | 2,772,507                      | 100,216,383 | 1,621,917        | 39,130,117 | 1,084,992              | 59,969,673              |
| 1926..... | 3,229,791                      | 115,154,199 | 1,901,268        | 44,800,257 | 1,251,178 <sup>2</sup> | 69,220,427              |
| 1927..... | 3,278,978                      | 114,442,550 | 1,922,124        | 44,174,811 | 1,278,572              | 69,169,002              |
| 1928..... | 3,608,045                      | 121,184,214 | 2,127,699        | 47,549,324 | 1,392,755              | 72,500,188              |
| 1929..... | 4,021,229                      | 129,033,154 | 2,420,774        | 51,617,360 | 1,501,273              | 76,198,051              |
| 1930..... | 3,619,345                      | 112,355,872 | 2,283,130        | 48,317,494 | 1,265,057              | 63,156,351              |
| 1931..... | 3,167,960                      | 84,780,809  | 2,016,480        | 37,096,768 | 1,151,480              | 46,998,988 <sup>2</sup> |
| 1932..... | 2,663,248                      | 64,412,453  | 1,696,021        | 28,018,451 | 967,227                | 35,987,294              |
| 1933..... | 2,979,562                      | 64,114,074  | 1,859,049        | 25,332,444 | 1,120,513              | 38,781,630              |

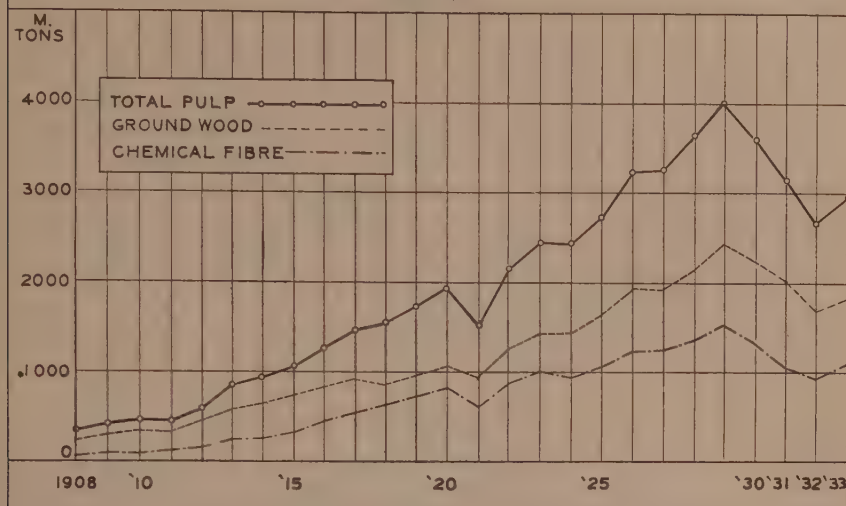
<sup>1</sup>The totals for 1920-32 include some unspecified pulp.  
Year Book.

<sup>2</sup>Revised since the publication of the 1933

The growth of this industry was steady up to 1920, when 1,960,102 tons of pulp were produced. There was a drop in production in 1921, but production in 1922 more than overtook the previous years drop. Following this, with the exception of 1924, each year up to 1929 showed consistent growth in the annual production, 1929 creating a record for the industry with a production of 4,021,229 tons. This was followed by annual decreases down to 1932. The 1933 figure of 2,979,562 tons marks an increase of almost 12 p.c. over 1932.

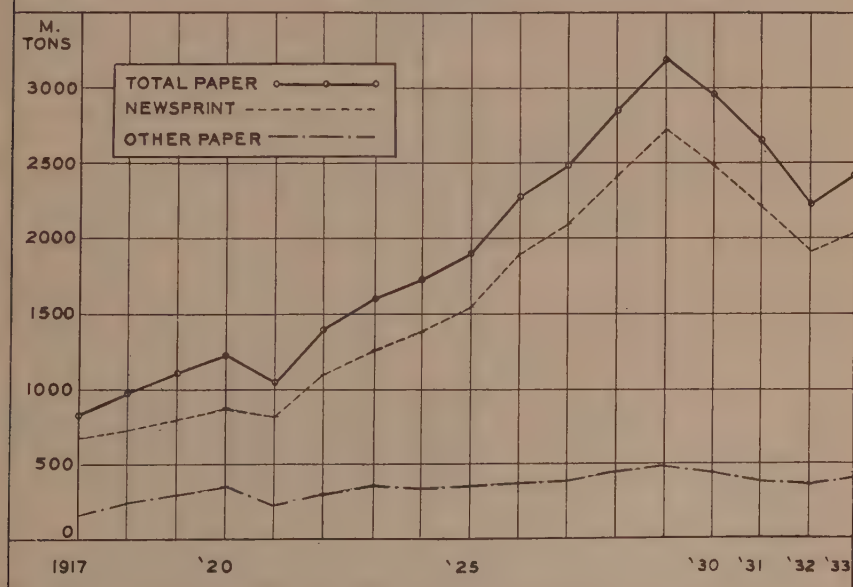
## GROWTH OF WOOD-PULP PRODUCTION

1908-1933



## VARIATIONS IN PAPER PRODUCTION

1917-1933



During 1933 there were 28 mills manufacturing pulp only and 42 combined pulp and paper mills. These 70 establishments turned out 2,979,562 tons of pulp, valued at \$64,114,074, as compared with 2,663,248 tons of pulp, valued at \$64,412,453 in 1932. Of the 1933 total for pulp, 2,225,540 tons, valued at \$37,729,011, were made in the combined pulp and paper-mills for their own use in manufacturing paper. Of the remainder, 124,239 tons, valued at \$4,235,902, were made for sale in Canada, while 629,783 tons, valued at \$22,149,161, were made for export. As in the case of pulpwood, a part of the product at this stage of the industry provides raw material for the later stages, while the remainder has a definite market value as pulp.

Over 61 p.c. of the production in 1933 was groundwood pulp and over 18 p.c. unbleached sulphite fibre, these two being the principal components of newsprint paper. Bleached sulphite, sulphate and soda fibre made up the remainder, with screenings, for which a considerable market has developed in recent years in connection with the manufacture of rigid insulating boards. Table 7 shows the production of pulp by provinces in the last six years.

**7.—Production of Wood-Pulp in Canada, by Chief Producing Provinces, 1928-33.**

| Year.     | Quebec.   |            | Ontario.  |            | Canada. <sup>1</sup> |             |
|-----------|-----------|------------|-----------|------------|----------------------|-------------|
|           | Quantity. | Value.     | Quantity. | Value.     | Quantity.            | Value.      |
|           | tons.     | \$         | tons.     | \$         | tons.                | \$          |
| 1928..... | 2,018,566 | 67,467,328 | 1,050,335 | 35,708,079 | 3,608,045            | 121,184,214 |
| 1929..... | 2,174,805 | 69,286,498 | 1,255,010 | 39,963,767 | 4,021,229            | 129,033,154 |
| 1930..... | 1,833,000 | 58,703,067 | 1,043,559 | 31,463,873 | 3,619,345            | 112,355,872 |
| 1931..... | 1,513,658 | 41,884,387 | 858,100   | 22,944,933 | 3,167,960            | 84,780,809  |
| 1932..... | 1,240,442 | 31,124,954 | 786,405   | 18,735,105 | 2,663,248            | 64,412,453  |
| 1933..... | 1,360,704 | 29,860,706 | 867,417   | 18,644,259 | 2,979,562            | 64,114,074  |

<sup>1</sup>Includes production in British Columbia, Manitoba, New Brunswick and Nova Scotia.

**Pulp Exportation.**—The following table gives the quantities of pulp exported by the principal pulp-producing countries of the world in 1933. Figures for 1913, the year immediately preceding the War, and for 1932 are shown for comparison. Figures of the exports of wood-pulp from Canada in the fiscal years ended Mar. 31, 1931-34, will be found in Table 12 of the chapter on External Trade. In the calendar year 1934 the exports of wood-pulp from Canada were 605,641 tons.

The total exports of the ten principal pulp-exporting countries of the world in 1933 were 6,052,338 short tons, of which Canada contributed about 10 p.c.

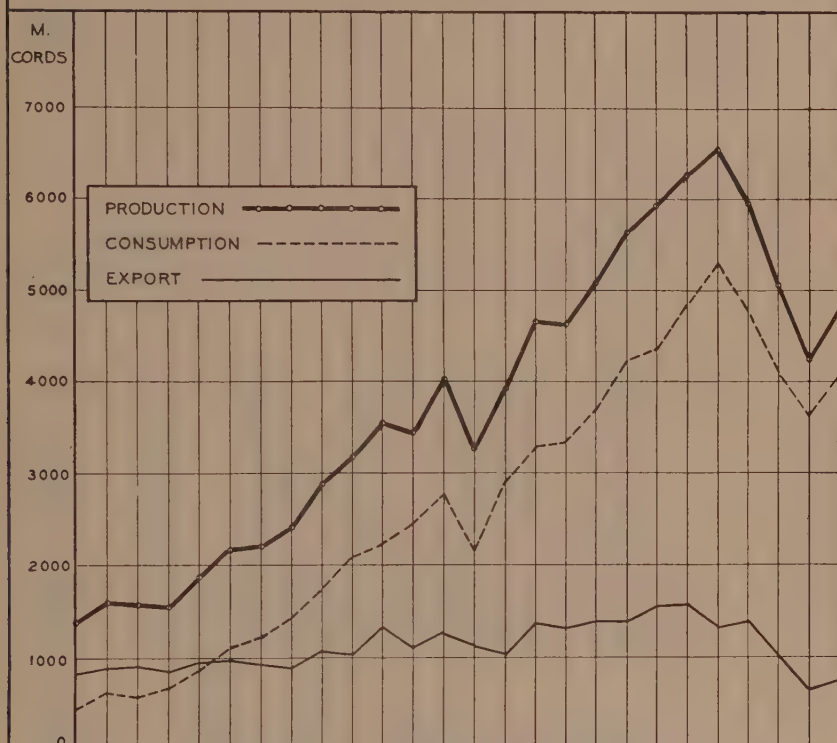
**8.—Exports of Wood-Pulp from Principal Wood-Pulp Producing Countries of the World, calendar years 1913, 1932 and 1933.**

| Country.            | Years ended Dec. 31— |                  |                  | Proportions, 1933. |                  |
|---------------------|----------------------|------------------|------------------|--------------------|------------------|
|                     | 1913.                | 1932.            | 1933.            | Chemical.          | Mechanical.      |
|                     | Total Wood-Pulp.     | Total Wood-Pulp. | Total Wood-Pulp. |                    |                  |
|                     | tons.                | tons.            | tons.            | tons.              | tons.            |
| Sweden.....         | 1,112,313            | 1,647,568        | 2,456,912        | 1,810,801          | 646,111          |
| Finland.....        | 132,674              | 1,309,487        | 1,438,457        | 1,039,574          | 398,883          |
| Norway.....         | 779,025              | 965,529          | 926,268          | 278,018            | 648,250          |
| <b>Canada.....</b>  | <b>298,169</b>       | <b>452,293</b>   | <b>605,509</b>   | <b>470,829</b>     | <b>137,680</b>   |
| Germany.....        | 206,042              | 317,688          | 285,344          | 279,946            | 5,398            |
| Austria.....        | 112,714              | 112,080          | 131,780          | 118,797            | 12,983           |
| Czechoslovakia..... | 23,935               | 91,078           | 109,508          | 109,508            | —                |
| United States.....  | 19,776               | 47,861           | 79,192           | 77,927             | 1,265            |
| Poland.....         | —                    | 9,045            | 9,158            | 9,142              | 16               |
| Switzerland.....    | 7,328                | 9,394            | 7,210            | 5,644              | 1,566            |
| Newfoundland.....   | 57,165               | —                | —                | —                  | —                |
| <b>Totals.....</b>  | <b>2,749,141</b>     | <b>4,962,023</b> | <b>6,052,338</b> | <b>4,200,156</b>   | <b>1,852,152</b> |

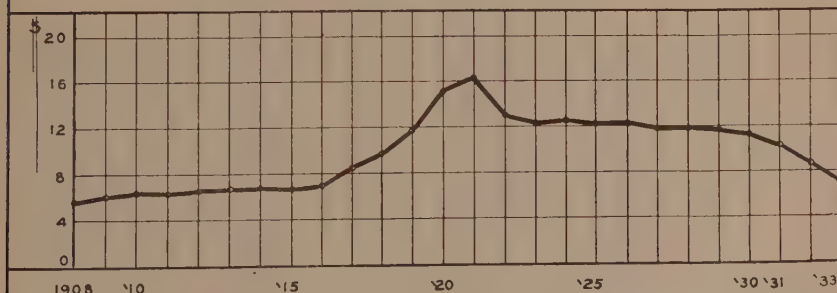


# PULPWOOD PRODUCTION, CONSUMPTION, EXPORT AND VALUE PER CORD.

1908 — 1933



## AVERAGE VALUE PER CORD



**Paper Production.**—The paper-making stage of the industry involves the consumption of wood-pulp and other paper stock in the manufacture of paper and other pulp products. Accurate annual statistics for this part of the industry are available only for the years 1917 to 1933 inclusive. These are given in Table 9.

During 1933 there were 42 combined pulp and paper-mills and 25 mills making paper only. These 67 establishments produced 2,419,420 tons of paper, together with certain miscellaneous pulp products, with a total value of \$97,030,429, as compared to 2,290,767 tons, valued at \$114,115,570 in 1932. Newsprint paper forms over 80 p.c. of the annual paper production in Canada. In 1933, the production of newsprint paper was 2,021,965 tons, valued at \$66,959,501, reaffirming Canada in the position of largest producer of newsprint in the world. The preliminary estimate for 1934 is 2,599,292 tons.

### 9.—Summary of Paper Production in Canada, calendar years 1917-33.

| Year.     | Newsprint Paper. |             | Book and Writing Paper. |                         | Wrapping Paper. |            |
|-----------|------------------|-------------|-------------------------|-------------------------|-----------------|------------|
|           | Quantity.        | Value.      | Quantity.               | Value.                  | Quantity.       | Value.     |
|           | tons.            | \$          | tons.                   | \$                      | tons.           | \$         |
| 1917..... | 689,847          | 38,868,084  | 48,141                  | 9,310,138               | 50,360          | 5,646,750  |
| 1918..... | 734,783          | 46,230,814  | 48,150                  | 10,732,807              | 61,180          | 7,341,372  |
| 1919..... | 794,567          | 54,427,879  | 58,228                  | 12,571,000              | 59,697          | 7,979,418  |
| 1920..... | 875,696          | 80,865,271  | 73,196                  | 21,888,807              | 77,292          | 12,161,303 |
| 1921..... | 805,114          | 78,784,598  | 53,530                  | 12,550,520              | 52,898          | 6,634,211  |
| 1922..... | 1,081,364        | 75,971,327  | 64,808                  | 12,560,504 <sup>1</sup> | 81,793          | 8,219,841  |
| 1923..... | 1,251,541        | 93,213,340  | 76,789                  | 13,582,135              | 84,912          | 7,666,174  |
| 1924..... | 1,388,081        | 100,276,903 | 67,934                  | 12,605,623              | 89,441          | 8,027,918  |
| 1925..... | 1,536,523        | 106,268,641 | 74,724                  | 13,145,407              | 91,417          | 8,130,102  |
| 1926..... | 1,889,208        | 121,004,946 | 80,403                  | 14,765,725              | 97,057          | 8,552,400  |
| 1927..... | 2,082,830        | 132,286,729 | 75,072                  | 12,916,469              | 102,707         | 9,607,828  |
| 1928..... | 2,414,333        | 144,146,632 | 79,138                  | 14,008,406              | 111,667         | 10,424,217 |
| 1929..... | 2,725,351        | 150,800,157 | 73,502                  | 13,636,562              | 91,374          | 9,725,876  |
| 1930..... | 2,497,952        | 136,181,883 | 69,468                  | 12,261,659              | 78,320          | 7,880,224  |
| 1931..... | 2,227,052        | 111,419,637 | 59,580                  | 10,154,171              | 77,194          | 7,479,993  |
| 1932..... | 1,919,205        | 85,539,852  | 56,781                  | 8,687,895               | 69,018          | 6,289,293  |
| 1933..... | 2,021,965        | 66,959,501  | 60,683                  | 8,927,408               | 67,780          | 6,441,695  |

| Year.     | Boards.   |            | Other Paper Products. |           | Totals, Paper. |             |
|-----------|-----------|------------|-----------------------|-----------|----------------|-------------|
|           | Quantity. | Value.     | Quantity.             | Value.    | Quantity.      | Value.      |
|           | tons.     | \$         | tons.                 | \$        | tons.          | \$          |
| 1917..... | 54,080    | 3,543,164  | 11,261                | 1,382,205 | 853,689        | 58,855,258  |
| 1918..... | 87,749    | 5,551,409  | 35,862                | 3,267,142 | 967,724        | 73,123,544  |
| 1919..... | 137,678   | 8,892,046  | 40,065                | 3,882,500 | 1,090,235      | 87,752,843  |
| 1920..... | 158,041   | 12,904,662 | 30,726                | 4,222,724 | 1,214,951      | 132,022,767 |
| 1921..... | 89,120    | 6,225,948  | 18,285                | 2,358,658 | 1,018,947      | 106,553,935 |
| 1922..... | 113,200   | 7,000,081  | 25,650                | 2,508,325 | 1,366,815      | 106,260,078 |
| 1923..... | 130,582   | 8,480,233  | 45,479                | 4,242,488 | 1,589,303      | 127,184,370 |
| 1924..... | 135,252   | 8,228,760  | 38,033                | 4,180,293 | 1,718,741      | 133,319,407 |
| 1925..... | 144,646   | 8,378,621  | 37,395                | 4,237,904 | 1,884,705      | 140,160,675 |
| 1926..... | 155,469   | 8,825,804  | 44,006                | 4,973,352 | 2,266,143      | 158,277,078 |
| 1927..... | 161,497   | 8,985,788  | 46,585                | 4,433,926 | 2,468,691      | 168,445,548 |
| 1928..... | 193,061   | 10,656,200 | 50,940                | 5,069,950 | 2,849,199      | 184,305,405 |
| 1929..... | 250,061   | 13,539,645 | 56,881                | 5,287,012 | 3,197,149      | 192,989,252 |
| 1930..... | 233,217   | 12,193,829 | 47,830                | 4,788,279 | 2,926,787      | 173,626,383 |
| 1931..... | 202,854   | 10,225,732 | 44,545                | 4,350,356 | 2,611,225      | 143,957,264 |
| 1932..... | 209,938   | 9,621,041  | 35,825                | 3,735,042 | 2,290,767      | 114,115,570 |
| 1933..... | 232,190   | 10,598,439 | 36,802                | 3,762,832 | 2,419,420      | 97,030,429  |

<sup>1</sup> Revised since the publication of the 1933 Year Book.

Newsprint made up about 84 p.c. of the total paper production in 1933, with about 10 p.c. of paper boards, 3 p.c. of wrapping paper, 2 p.c. of book and writing paper and about 1 p.c. of other miscellaneous papers.

## 10.—Production of Paper in Canada, by Provinces, 1933.

| Province.                          | Quantity.        | Value.            |
|------------------------------------|------------------|-------------------|
|                                    | tons.            | \$                |
| Quebec.....                        | 1,138,032        | 45,583,472        |
| Ontario.....                       | 790,484          | 34,183,270        |
| British Columbia.....              | 262,301          | 8,885,395         |
| Nova Scotia and New Brunswick..... | 228,603          | 8,378,292         |
| <b>Totals.....</b>                 | <b>2,419,420</b> | <b>97,030,429</b> |

Quebec produced 47 p.c. of the total quantity, Ontario 33 p.c., British Columbia 11 p.c. and Nova Scotia and New Brunswick the remainder.

**World Production of Newsprint.**—The world production of newsprint in 1933 has been estimated at 6,421,000 short tons, of which North America supplied over 50 p.c. and Canada alone almost a third. The estimated production in the leading 23 countries, compared with 1932, and the five-year averages 1929-33, were as follows:—

## 11.—Estimated Quantities of Newsprint Produced in Leading Countries, 1932 and 1933, and the Five-Year Averages, 1929-33.

NOTE.—Countries by order of importance according to the 1933 production.

| Country.           | Production—      |                  | Five-year<br>Average. | Country.            | Production—      |                  | Five-year<br>Average. |
|--------------------|------------------|------------------|-----------------------|---------------------|------------------|------------------|-----------------------|
|                    | 1932.            | 1933.            |                       |                     | 1932.            | 1933.            |                       |
|                    | tons.            | tons.            |                       |                     | tons.            | tons.            |                       |
| <b>Canada.....</b> | <b>1,915,000</b> | <b>2,017,000</b> | <b>2,277,200</b>      | Italy.....          | 74,000           | 72,000           | 67,200                |
| United States..... | 1,007,000        | 946,000          | 1,156,800             | Spain.....          | 65,000           | 65,000           | 50,800                |
| Great Britain..... | 790,000          | 830,000          | 716,800               | Austria.....        | 53,000           | 50,000           | 58,200                |
| Germany.....       | 450,000          | 412,000          | 523,000               | Switzerland.....    | 45,000           | 45,000           | 46,800                |
| France.....        | 275,000          | 335,000          | 260,600               | Belgium.....        | 40,000           | 39,000           | 46,000                |
| Japan.....         | 272,000          | 304,000          | 281,000               | Czechoslovakia..... | 40,000           | 38,000           | 42,200                |
| Finland.....       | 254,000          | 285,000          | 244,000               | Poland.....         | 23,000           | 23,000           | 24,600                |
| Newfoundland.....  | 272,000          | 271,000          | 276,200               | Mexico.....         | 13,000           | 16,000           | 15,400                |
| Sweden.....        | 257,000          | 266,000          | 260,600               | Denmark.....        | 9,000            | 7,000            | 9,400                 |
| Norway.....        | 200,000          | 167,000          | 172,400               | Estonia.....        | 6,000            | 6,000            | 17,000                |
| Russia.....        | 125,000          | 135,000          | 99,600                | Latvia.....         | 5,000            | 5,000            | 4,200                 |
| Netherlands.....   | 85,000           | 87,000           | 82,400                |                     |                  |                  |                       |
|                    |                  |                  |                       | <b>Totals.....</b>  | <b>6,275,000</b> | <b>6,421,000</b> | <b>6,732,400</b>      |

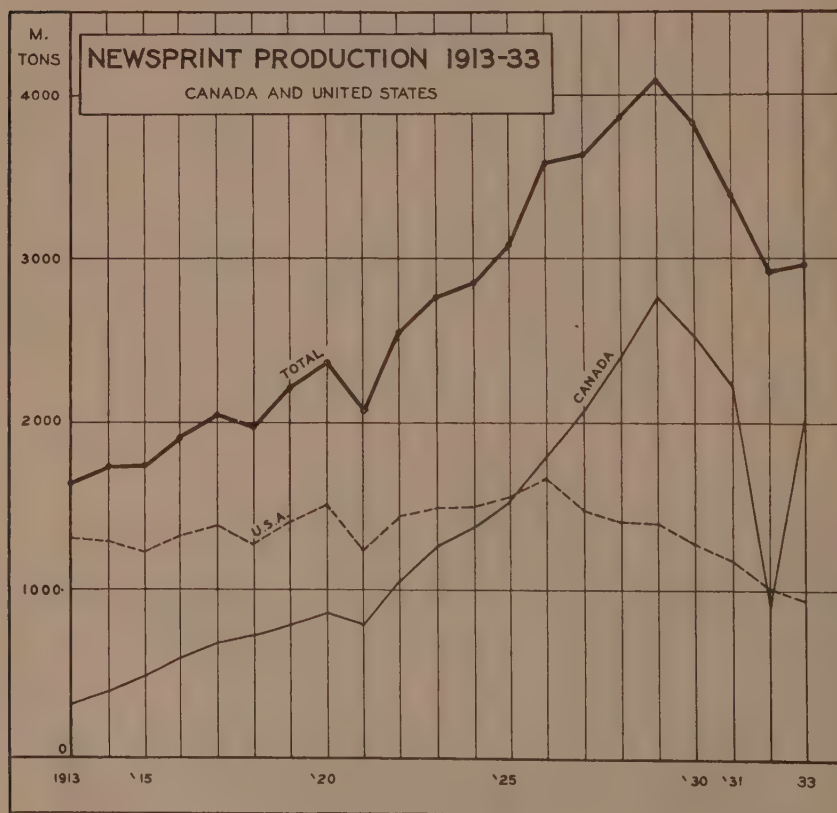
**Exportation of Newsprint Paper.**—In the fiscal year 1908, exports of printing paper were for the first time separately recorded, and valued at \$2,833,535. In the fiscal year 1913, when quantities were first shown, Canada exported 256,661 short tons valued at \$9,980,378. For the fiscal year ended Mar. 31, 1934, our exports of newsprint amounted to 2,024,057 tons valued at \$73,238,482 and ranked second only to wheat among the exports of the Dominion. For exports of newsprint and other paper in the fiscal years ended Mar. 31, 1931-34, see Table 12 of the chapter on External Trade.

As early as 1913 Canada led the world in the exportation of newsprint, and, since that date, her exports have increased more than seven-fold in quantity. The following table shows the exportation of newsprint from the 13 principal exporting countries in 1913, 1931, 1932 and 1933. Canada contributed to the total over 61 p.c. or more than all the other 12 countries combined in 1933. Canada's exports of newsprint paper for the calendar year 1934 were 2,399,624 tons.

## 12.—Exports of Newsprint Paper from Principal Paper-Producing Countries of the World, 1913, 1931, 1932 and 1933.

NOTE.—Countries arranged in order of importance of exports, 1933.

| Rank<br>in<br>1933. | Country.            | Years ended Dec. 31— |                  |                  |                  |
|---------------------|---------------------|----------------------|------------------|------------------|------------------|
|                     |                     | 1913.                | 1931.            | 1932.            | 1933.            |
|                     |                     | tons.                | tons.            | tons.            | tons.            |
| 1                   | Canada .....        | 256,661              | 2,008,241        | 1,776,764        | 1,838,105        |
| 2                   | Finland .....       | 77,213               | 210,350          | 221,445          | 248,497          |
| 3                   | Newfoundland.....   | 49,755               | 299,511          | 278,704          | 217,114          |
| 4                   | Sweden .....        | 67,938               | 201,834          | 204,342          | 201,475          |
| 5                   | Norway .....        | 108,507              | 96,539           | 177,924          | 151,594          |
| 6                   | Germany .....       | 75,761               | 229,233          | 139,087          | 110,988          |
| 7                   | United Kingdom..... | 105,153              | 66,340           | 94,037           | 88,879           |
| 8                   | Austria.....        | 14,855               | 59,729           | 54,857           | 44,945           |
| 9                   | Japan.....          | 3,270                | 61,823           | 34,740           | 41,052           |
| 10                  | Netherlands.....    | —                    | 28,713           | 27,793           | 14,866           |
| 11                  | United States.....  | 43,301               | 9,652            | 8,464            | 11,148           |
| 12                  | Czechoslovakia..... | —                    | 8,648            | 7,569            | 6,592            |
| 13                  | Switzerland.....    | 12                   | 3,675            | 313              | 127              |
|                     | <b>Totals.....</b>  | <b>802,426</b>       | <b>3,281,288</b> | <b>3,026,039</b> | <b>2,975,382</b> |





**Statistics of the Combined Pulp and Paper Industries.**—While the manufacture of pulp and that of paper are properly two industries, the existence of combined pulp and paper-mills makes it impossible to separate many of their statistics. Considering the manufacturing part of the industry as a whole, there were altogether 95 mills in operation in 1933 and 98 in 1932. The capital invested in 1933 amounted to \$559,265,544, the employees numbered 24,037 and their salaries and wages amounted to \$26,591,049. If we disregard pulp made "for own use" in combined pulp and paper-mills, the total value of the raw materials used in the industry as a whole amounted to \$47,632,521, and the gross value of production to \$123,415,492. The difference between these two, or the net value of production, represents the value added by manufacture and amounted in 1933 to \$75,782,971. The pulp and paper industry, now the leading single manufacturing industry in Canada, has been first in wages and salaries paid since 1922, when it first exceeded the sawmills. It has been the leading industry in gross value of production since 1925, when it replaced the flour mills, and also first in net value of production since 1920, when it outstripped the sawmills in this respect. Only the manufacturing stages of the industry are considered in these comparisons, no allowance being made for capital invested, men employed, wages paid nor primary products sold in connection with the woods operations. These form an important part of the industry as a whole but cannot be separated from woods operations carried on in connection with sawmills and other industries. If the \$4,696,459 worth of exported pulpwood be taken into consideration, the gross total contribution of the pulp and paper industry toward a favourable trade balance for Canada in 1933 amounted to \$94,809,504, representing the difference between exports and imports of pulpwood, pulp, paper and paper products.

The United States' market absorbs annually all of Canada's pulpwood exports, 80 p.c. of her pulp and 81 p.c. of her paper shipments. Of the pulp, 4 p.c. goes to Empire and 96 p.c. to foreign countries. Of the paper 13 p.c. goes to Empire and 87 p.c. to foreign countries. About half of the paper consumed in the United States is either of Canadian manufacture or is made from wood or wood-pulp imported from Canada.

### Subsection 3.—The Lumber Industry.

The manufacture of lumber, lath, shingles and other products of the sawmill is the second most important industry in Canada depending on the forest for its raw materials. Annual statistics covering this and other forest industries were collected and published by the Forest Service of the Department of the Interior from 1908 to 1916, since when the work has been carried on by the Dominion Bureau of Statistics, in co-operation with the Forest Service.

The production of sawn lumber in Canada in 1920 reached a total of over four billion feet board measure, the highest cut recorded since 1912. Owing to the subsequent depression the production of lumber in 1921 decreased by over a third and the average value by over \$10 a thousand feet. This was followed, with one exception, by annual increases up to 1929 and then by annual decreases down to 1932. There was an increase in 1933. British Columbia now produces over half the total. Table 13 gives the production of lumber, lath and shingles in each year from 1920 to 1933; comparable figures for 1908 to 1919 inclusive are given at p. 300 of the 1931 Year Book.

### 13.—Quantities and Values of Lumber, Lath, and Shingles Produced in Canada, calendar years 1920-33.

| Year.     | Lumber Cut. |                         | Shingles Cut. |            | Lath Cut. |           |
|-----------|-------------|-------------------------|---------------|------------|-----------|-----------|
|           | Quantity.   | Value.                  | Quantity.     | Value.     | Quantity. | Value.    |
|           | M ft. b.m.  | \$                      | M             | \$         | M         | \$        |
| 1920..... | 4,298,804   | 168,171,987             | 2,855,706     | 14,695,159 | 762,031   | 5,248,879 |
| 1921..... | 2,869,307   | 82,448,585              | 2,986,580     | 10,727,096 | 804,449   | 4,188,121 |
| 1922..... | 3,138,598   | 84,554,172              | 2,506,956     | 10,397,080 | 1,031,420 | 5,690,328 |
| 1923..... | 3,728,445   | 108,290,542             | 2,718,650     | 9,617,114  | 1,153,735 | 6,324,747 |
| 1924..... | 3,878,942   | 104,444,622             | 3,129,501     | 10,406,293 | 1,165,819 | 5,975,253 |
| 1925..... | 3,888,920   | 99,725,519              | 3,156,261     | 11,154,773 | 1,292,963 | 6,415,927 |
| 1926..... | 4,185,140   | 101,071,260             | 3,299,397     | 10,521,723 | 1,378,366 | 6,527,060 |
| 1927..... | 4,098,081   | 97,508,786              | 2,837,281     | 8,716,085  | 1,322,665 | 5,603,396 |
| 1928..... | 4,337,253   | 103,590,035             | 2,865,994     | 10,321,341 | 1,138,417 | 4,802,616 |
| 1929..... | 4,741,941   | 113,349,886             | 2,707,235     | 9,423,363  | 835,799   | 2,860,799 |
| 1930..... | 3,989,421   | 87,710,957              | 1,914,836     | 5,388,837  | 398,254   | 1,154,593 |
| 1931..... | 2,497,553   | 45,977,843 <sup>1</sup> | 1,453,277     | 3,331,229  | 228,050   | 576,080   |
| 1932..... | 1,809,884   | 26,881,924              | 1,802,008     | 3,556,823  | 208,321   | 474,889   |
| 1933..... | 1,957,989   | 27,708,908              | 1,939,519     | 4,448,876  | 151,653   | 332,364   |

<sup>1</sup>Revised since the publication of the 1933 Year Book.

The total number of sawmills, tie, shingle, lath, veneer, stave, heading and hoop mills, and mills for cutting-up and barking or rossing of pulpwood reporting in 1933 was 3,517, as compared with 3,593 in 1932. The capital invested in these mills in 1933 was \$74,304,090, employment amounted to 17,779 man-years and wages and salaries amounted to \$10,040,165. The logs, bolts and other raw materials of the industry were valued at \$22,870,710 and the gross value of production was \$39,438,057. The net production, or the value added by manufacture, in 1933 was \$16,567,347.

The production of sawn lumber increased in quantity from 1932 to 1933 by 5.3 p.c. Lath production decreased by 27.2 p.c., but shingle production increased by 7.6 p.c. Otherwise, increases were reported in the production of all but a few of the minor products. The total gross value of production increased from \$38,506,647 in 1932 to \$39,438,057 in 1933; for production by provinces for the two latest years see Table 14.

### 14.—Quantities and Values of Lumber, and Values of Other and All Sawmill Products Made in Canada, by Provinces, 1932 and 1933.

| Province.          | Lumber Production. |                  |                   |                   | Other Sawmill Products. |                   | Totals.           |                   |
|--------------------|--------------------|------------------|-------------------|-------------------|-------------------------|-------------------|-------------------|-------------------|
|                    | Quantities.        |                  | Values.           |                   | Value.                  | Value.            | Value.            | Value.            |
|                    | 1932.              | 1933.            | 1932.             | 1933.             | 1932.                   | 1933.             | 1932.             | 1933.             |
|                    | M ft. b.m.         | M ft. b.m.       | \$                | \$                | \$                      | \$                | \$                | \$                |
| P. E. Island.....  | 4,911              | 4,946            | 94,930            | 84,021            | 14,921                  | 21,647            | 109,851           | 105,668           |
| Nova Scotia.....   | 79,126             | 101,212          | 1,029,462         | 1,315,925         | 486,792                 | 386,985           | 1,516,254         | 1,702,910         |
| New Brunswick....  | 112,314            | 100,568          | 1,690,464         | 1,439,344         | 518,452                 | 509,756           | 2,208,916         | 1,949,100         |
| Quebec.....        | 358,663            | 275,210          | 5,942,606         | 4,075,215         | 4,004,084               | 2,496,157         | 9,946,690         | 6,571,372         |
| Ontario.....       | 212,140            | 226,711          | 4,745,636         | 4,727,792         | 711,405                 | 1,266,377         | 5,457,041         | 5,994,169         |
| Manitoba.....      | 23,708             | 33,112           | 296,500           | 445,144           | 11,842                  | 25,789            | 308,342           | 470,933           |
| Saskatchewan.....  | 15,549             | 17,639           | 257,993           | 261,795           | 3,459                   | 5,762             | 261,452           | 267,557           |
| Alberta.....       | 69,100             | 65,247           | 915,695           | 736,305           | 53,099                  | 47,890            | 968,704           | 784,195           |
| British Columbia.. | 934,373            | 1,133,344        | 11,908,638        | 14,623,367        | 5,820,759               | 6,968,786         | 17,729,397        | 21,592,153        |
| <b>Totals....</b>  | <b>1,809,884</b>   | <b>1,957,989</b> | <b>26,881,924</b> | <b>27,708,908</b> | <b>11,624,723</b>       | <b>11,729,149</b> | <b>38,506,647</b> | <b>39,438,057</b> |

British Columbia came first in total production, contributing 57·9 p.c. of the total cut in lumber and 82 p.c. of the shingles in 1933. Quebec followed in second place, Ontario was third and New Brunswick fourth. Douglas fir was the most important kind of lumber sawn, being produced almost entirely in British Columbia. Spruce is sawn in every province and comes second, with hemlock, white pine and balsam fir next in order of importance. Cedar is the most important shingle wood sawn. The conifers usually form about 95 p.c. of the total cut of all kinds of wood in this industry, only 5 p.c. being deciduous-leaved trees or hardwoods.

**Lumber Exportation.**—The square-timber trade reached its maximum development in the '60's; thereafter it declined gradually and has now almost entirely disappeared. Simultaneously with its decline came the increased exportation of deals and other sawn lumber, first to Great Britain and later to the United States. Our trade with the latter country has been from the first largely confined to planks, boards and dimension stock. During the American Civil War our exports of forest products of all kinds to the United States for the first time exceeded those to Great Britain, but in late years this has become invariable. The total quantity of sawn lumber and square timber exported from Canada changed little from 1900 to 1929, averaging about two billion ft. b.m. per annum, but decreased considerably in 1930, 1931 and 1932. The exports in 1932 amounted to 790,789 M ft. b.m., valued at \$14,159,315, of which the United States took the greater part. Exports to Empire countries made up 42 p.c. of the total and those to foreign countries, 58 p.c. In 1934, however, exports to Empire countries had increased to 74 p.c. of the total. The exports of lumber and square timber increased in 1934 as compared with 1933, but the exports of shingles and lath decreased. (See Table 15.)

**15.—Exports of Planks, Boards and Square Timber, by Importing Countries, calendar years 1931-34.**

| Country.                     | 1931.            |                   | 1932.          |                   | 1933.            |                   | 1934.            |                   |
|------------------------------|------------------|-------------------|----------------|-------------------|------------------|-------------------|------------------|-------------------|
|                              | Quantity.        | Value.            | Quantity.      | Value.            | Quantity.        | Value.            | Quantity.        | Value.            |
|                              | M ft. b.m.       | \$                | M ft. b.m.     | \$                | M ft. b.m.       | \$                | M ft. b.m.       | \$                |
| British—                     |                  |                   |                |                   |                  |                   |                  |                   |
| United Kingdom...            | 132,159          | 3,649,342         | 195,171        | 3,986,742         | 486,555          | 8,197,350         | 861,193          | 16,266,405        |
| Irish Free State...          | 5,866            | 129,424           | 2,550          | 43,094            | 3,084            | 50,064            | 25,187           | 465,804           |
| New Zealand.....             | 2,287            | 38,091            | 1,195          | 23,948            | 1,613            | 40,482            | 2,999            | 78,771            |
| Australia.....               | 45,327           | 813,127           | 119,085        | 1,416,817         | 124,078          | 1,444,205         | 123,905          | 1,598,933         |
| British South Africa.....    | 5,721            | 100,477           | 5,188          | 87,348            | 14,385           | 191,760           | 20,160           | 355,931           |
| British West Indies          | 5,961            | 156,348           | 12,179         | 256,583           | 14,134           | 262,661           | 17,156           | 332,513           |
| Other British Countries..... | 10,204           | 70,490            | 7,084          | 144,546           | 9,266            | 171,631           | 9,544            | 249,047           |
| Totals, British....          | 207,525          | 4,957,299         | 342,452        | 5,959,078         | 653,115          | 10,358,153        | 1,060,144        | 19,347,404        |
| Foreign—                     |                  |                   |                |                   |                  |                   |                  |                   |
| United States.....           | 665,460          | 14,253,637        | 326,832        | 6,660,965         | 296,864          | 6,418,839         | 233,714          | 5,853,265         |
| China.....                   | 41,692           | 547,303           | 45,105         | 473,946           | 110,694          | 1,174,492         | 103,522          | 1,209,749         |
| Japan.....                   | 129,368          | 1,925,667         | 68,865         | 899,752           | 59,652           | 706,297           | 71,810           | 985,085           |
| Other Foreign Countries..... | 15,897           | 368,660           | 7,535          | 165,574           | 20,216           | 321,725           | 21,936           | 446,764           |
| Totals, Foreign...           | 852,417          | 17,095,267        | 448,337        | 8,200,237         | 487,426          | 8,621,353         | 430,982          | 8,494,863         |
| <b>Grand Totals.....</b>     | <b>1,059,942</b> | <b>22,052,566</b> | <b>790,789</b> | <b>14,159,315</b> | <b>1,140,541</b> | <b>18,979,506</b> | <b>1,491,126</b> | <b>27,842,267</b> |

#### Subsection 4.—Summary of Primary Forest Production.

For the purpose of comparing primary industries such as agriculture, fishing, forestry and mining, forestry production is here understood to consist of the total value of the products of woods operations, together with the value added by manufacture in sawmills and pulp-mills, but not in paper-mills. Forestry production under this system of classification, amounted to \$133,401,946 in 1932 or about 13 p.c. of the total primary production for the Dominion, which was estimated at \$1,051,543,238. Forest production, therefore, stood in third place in this respect, being exceeded by agriculture with \$565,417,704 or 54 p.c. and mining, with \$191,228,225 or 18 p.c.

#### Subsection 5.—Other Forest Industries.

Sawmills and pulp-mills draw their raw material directly from the forest in the form of logs and pulpwood, and produce sawn lumber, other sawmill products and pulp and paper. There are also a number of important industries which use these products as raw material for further manufacture. Some of them produce commodities made almost entirely of wood, wood-pulp or paper, others manufacture articles in which wood is the most important component, and others produce articles in which wood is necessary but forms only a small proportion of the value. There are, in addition, a number of industries which use wood indirectly in the manufacture of articles which do not contain wood as a component part. The first class includes the manufacture of paper, sash, doors and other millwork and planing-mill products; boxes, baskets, cooperage and other containers; canoes, boats and small vessels; kitchen, bakers' and dairy woodenware; wooden pumps, piping, tanks and silos; spools, handles, dowels and turnery. The second class includes the manufacture of furniture, vehicles and vehicle supplies, coffins and caskets, etc., and the use of paper in printing and the manufacture of paper boxes, bags, stationery and paper goods. The third class, where wood has a secondary importance, includes the manufacture of agricultural implements, railway rolling-stock, musical instruments, brooms and brushes, etc. The fourth class can be said to include practically every form of industrial activity, as few, if any, of these are entirely independent of the use of wood, directly or indirectly.

#### Subsection 6.—Manufactures of Wood and Paper.

A classification based on the chief component material in the products of each manufacturing establishment is now largely used in comparing manufacturing industries and for external trade purposes. Under this system most of the forest industries fall in the wood and paper group. In 1933 the gross value of production for all classes of manufactured products amounted to \$2,086,847,847, of which total the wood and paper group contributed \$342,155,077 or over 16 p.c. It was only exceeded in this respect by the vegetable products with over 20 p.c. Of the ten groups of the industrial census the wood and paper group, which includes the manufacture of lumber, pulp and paper as well as the wood- and paper-using industries, was highest in number of establishments with 7,917, in net value of products, with \$207,175,377 and in salary and wage distribution with \$102,500,377.

In few industries did manufacture add, in 1933, a higher percentage to the raw material used than in the wood- and paper-using industries; in the manufacture of pulp and paper this percentage is 159 and in the lumber industry, 66. By the manufacture of lumber into planing-mill products its value is increased by 92 p.c.



For the wood and paper group as a whole the net value of production, or the value added by manufacture, in 1933 was \$207,175,377, or 153 p.c. of the value of raw materials used. Further details are given in the Manufactures chapter of the present volume.

The forests of Canada contribute an important part to her export trade. During the fiscal year ended Mar. 31, 1934, exports of forest origin amounted to \$143,142,398 and made up 25 p.c. of the total value of exports for the period, amounting to \$579,343,145. Exports of forest origin were exceeded only by those of farm origin, which made up 35 p.c. of the total and were followed by products of mineral origin with 21 p.c. Forest products are also prominent among the individual items of exportation. Newsprint paper is second only to wheat on the list, with wood-pulp fourth and sawn lumber fifth. The gross contribution of the forest toward a favourable trade balance for Canada amounted to \$143,710,162 during the same period, exceeding all other groups in this respect.

### Subsection 7.—Forest Depletion and Increment.

**Fire Losses.**—No accurate summing up of forest fire losses in Canada's forests has ever been made, but it has been estimated that 60 p.c. of the original forest has been burned, 13 p.c. has been cut for use and 27 p.c. remains. Though the loss of merchantable timber has been greatly reduced in recent years by forest protective services and the education of the public, it still constitutes a serious drain on our resources. At a low estimate fire destroys annually about 230,000,000 cubic feet of merchantable timber and the young growth on 550,000 acres.

Since the historic Miramichi fire, which burned along the valley of the Miramichi river in New Brunswick in 1825, there have been a number of disastrous fires. About the year 1845 vast areas, west of lake Superior, were burned over. Some years later a very extensive fire burned along the height of land from lake Timiskaming to Michipicoten. In 1871 a fierce fire swept over more than 2,000 square miles of forest from lake Nipissing westward along the north shore of Georgian bay. About the same time the greater part of the Saguenay and Lake St. John district, in Quebec, was swept by one of the most destructive fires on record. Two other fires in 1891 and 1896 devastated more than 2,000 square miles of country in the southern Algoma district; in Quebec, the country along the line of the Quebec and Lake St. John Railway also suffered by a number of disastrous forest fires about this time.

During more recent times a series of disastrous fires swept over northern Ontario. A number of isolated fires around the mining camp of Porcupine culminated, on July 11, 1911, in a conflagration which resulted in the loss of 72 lives and property damage estimated at \$3,000,000. In 1916 fires in the same general region were responsible for the deaths of at least 224 people. In 1922 a third fire destroyed the town of Haileybury and other centres. In 1908 a fire originating in the forest around Fernie, B.C., destroyed that city. Every year thousands of acres are devastated by fires of less individual importance, which in the aggregate are rapidly depleting our forest resources. In 1923 there were unusually disastrous fires, chiefly in Eastern Canada. A total area of over 6,000,000 acres was burned over with a loss of approximately \$46,000,000.

Speaking generally, there are annually two periods in Canada when the forest fire hazard is highest—in the spring, after the disappearance of the snow, when the forest floor is dry and the green underbrush has not yet developed, and again in the fall when the herbaceous growth is dead and the ground covered with dry leaves.

Statistics compiled by the Dominion Forest Service from reports received from the various provincial and private forest protective organizations, show that during the ten-year period, from 1922 to 1931, 86.5 p.c. of all fires reported were due to human agencies and were therefore preventable. The remainder were attributed to lightning. Campers, settlers and railways are responsible for most of the fires whose origin is determined. Other causes, including lumbering operations, lightning and incendiarism, account for smaller proportions.

**Losses through Insects and Fungi.**—From 1912 to 1923 the spruce bud-worm caused tremendous damage to the spruce and balsam fir forests in Eastern Canada. In Quebec it was estimated that 100 million cords of pulpwood were destroyed by this insect, and in New Brunswick the loss was placed at 15 million cords. In this region the active stage of the infestation is now practically over, but the insect is causing damage in northern Ontario and Cape Breton island. Other insects, though not as destructive as this one, entail a heavy drain on the forest. The hemlock looper and a new species closely related to the spruce bud-worm are causing considerable damage in eastern coniferous forests. During the last few years dusting by aeroplane has been developed on a practical basis by the Entomological Branch of the Department of Agriculture and promises to be effective in the control of defoliating insects. Perhaps the most effective means of controlling destructive forest insects is by the introduction of parasites. The Entomological Branch of the Dominion Department of Agriculture has developed this means of attack with marked success in the case of the larch saw fly and has recently secured from Europe some millions of parasitic insects which are being liberated in the forests infested with the spruce saw fly. The loss caused by the various forms of rot and other fungous diseases is probably not less than that caused by insects under normal conditions. The butt rot is especially prevalent in balsam fir, and the value of the hardwoods is also greatly decreased by rot.

**Summary of Losses and Increment.**—The annual consumption of standing timber for use amounts to about 2,970,000,000 cubic feet. During the last few years fire has destroyed annually about 230,000,000 cubic feet of merchantable timber and the young growth of various ages on 550,000 acres. The destruction occasioned by insects, fungi and windfall is not known, but is estimated at 700,000,000 cubic feet per annum. It may be safely estimated that the forests of Canada are being depleted at the rate of upwards of 3,900,000,000 cubic feet per annum. With about 600,000 square miles of accessible timber in a growing condition, an average annual increment of 10 to 11 cubic feet per acre would be quite possible under forest management and would cover this depletion. In view of the destruction of young growth which occurs and the deterioration of the forests and the soil, caused by repeated fires, there is little hope that this increment is being produced at the present time throughout Canada, although particular areas are producing greatly in excess of this quantity. Extensive reproduction and rate of growth surveys being conducted by the Dominion Forest Service indicate that the increment is greater than previously estimated.

## CHAPTER X.—THE FUR TRADE.\*

**Historical Sketch.**—The place which the fur trade held during the French *régime* in Canada, when for a century and a half it was at once the mainspring of discovery and development and the curse of settled industry, is familiar history. Later, the Hudson's Bay Company may be said with truth to have held the West until the Dominion had grown to absorb it, bequeathing to the civilization which followed a native race accustomed to the white man and an example of organization and discipline that was of lasting value. The salient facts in the story are given in the following paragraphs.

From the earliest times the Basque and Breton fishermen from the "Banks" had traded for furs. As the French court demanded more and more furs, adventurers came for the fur trade exclusively. Pont-Gravé and Chauvin built Tadoussac in 1599 as a centre for this trade with the Indians of the Saguenay and, when trade routes were discovered farther inland, the founding of Quebec and Montreal followed. The French Government from the first granted monopolies of the fur trade, always on the condition that the company should bring to Canada a stated number of settlers. But settlement and the fur trade could never go together—settlement, by driving fur-bearing animals farther afield, made trade increasingly expensive, and the great profits of the fur trade, together with its freedom and romance, took the more adventurous from the rational pursuits of settlers. Trade spread west and south by the river routes, convoys bringing the furs yearly to Montreal and Quebec. The de Caen Company, in the seventeenth century, sent yearly to France from 15,000 to 20,000 pelts. "Beaver" was made the Canadian currency.

In the meantime, English navigators had been seeking a Northwest Passage to the Orient. By 1632 their efforts came to an end with little practical result. Hudson bay, however, had been accurately charted, so that when the first English fur-trading ships came some 30 years later, they sailed by charted routes to a safe harbour. The first expedition came at the instigation of Radisson and Grosseilliers, two French *coueurs des bois* who had travelled in the rich fur country north of lake Superior. They had sought aid in France but, being repulsed, turned to England. The charter of the "Adventurers of England trading into Hudson's Bay" was obtained in 1670 by Prince Rupert, uncle of Charles II, who became first Governor of the company (whence the name Rupert's Land). During the struggle with the French, beginning about 1685, no dividends were paid but with the English victory the company resumed payments. Forts were built on Hudson bay and James bay at the mouths of rivers; the company, as monopolist, waited for the furs to be brought to its posts.

With the Seven Years' War, the fur trade from the south passed out of the hands of the French and, until 1771, the English were busy rediscovering the old French routes to the West. A period of open competition followed. The discoverer of a new fur district was soon followed by competitors who undersold him and were undersold by him until some or all were ruined and left for new fields. The Northwest Company, founded in 1783-4, was a result of such competition. No capital was deposited, but each party supplied a proportion of the articles needed for trade. The Northwest Company pursued a vigorous policy, founding posts to control all the best fur districts. The Hudson's Bay Company felt the keenness of the competition, and was forced to abandon its ancient policy of waiting for furs to be brought to the bay. By 1816 the rivals had absorbed or ruined eleven other partnerships and were themselves on the verge of ruin. Finally, in

\*Revised by Miss F. A. Brown, Chief of the Fur Statistics Branch, Dominion Bureau of Statistics. This Branch publishes a detailed Annual Report on the Production of Raw Furs (Wild Life), obtainable from the Dominion Statistician.



1821, the two were joined under the name of the older company. The Northwest Company brought with it the control of the Pacific and Arctic watersheds, to be added to the lands draining into Hudson bay, and over the whole region the Hudson's Bay Company secured legal recognition of its monopoly of the fur trade. There followed 40 years of great prosperity. The company's rights of exclusive trading in Indian territory expired in 1859 and, ten years later, it surrendered its other privileges. In return, Canada granted £300,000 to the company, as well as lands about its trading posts, and one-twentieth of the land in the fertile belt between the North Saskatchewan river and the International Boundary. The Hudson's Bay Company thereupon became a trading company, with no extraordinary privileges.

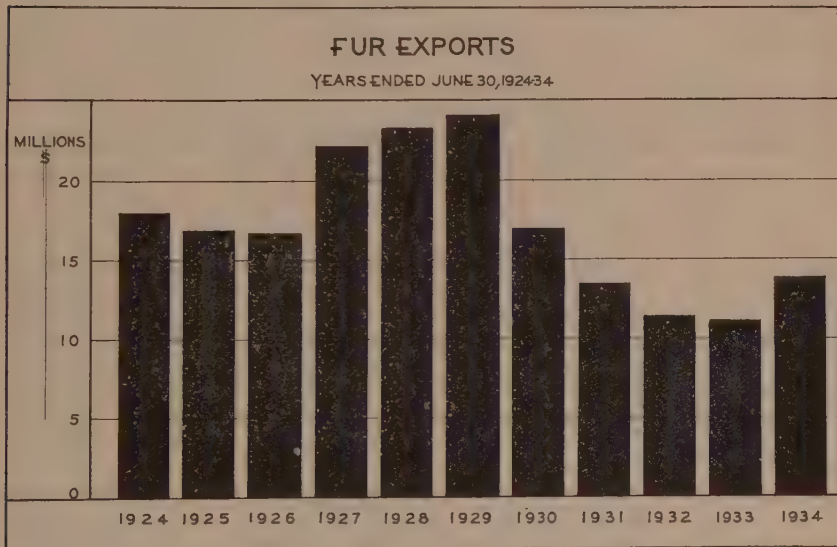
**The Modern Industry.**—Great changes have taken place in the fur trade since the early days, but competition has increased and new territory is as eagerly sought as in the days prior to 1821. The railway has revolutionized conditions wherever its influence reaches. Vessels now ply the larger lakes and rivers and the aeroplane is frequently used for the transportation of furs from the more inaccessible districts. Increase in trapping and improved methods of capture, together with the advance of lumbering, mining and agricultural settlement, have driven fur-bearing animals farther and farther afield, and to conserve the fur resources of the country the provinces have found it necessary to enact laws to regulate the capture of fur-bearing animals and to provide for closed seasons during certain periods of each year. The fur trade has assisted in meeting the demand for furs by popularizing common and previously despised furs and by encouraging the use of the furs of domestic animals. Fur farming is playing an increasingly important part in the fur trade of Canada, the value of pelts of ranch-bred animals now representing about 30 p.c. of the total annual value of the raw fur production of the Dominion. The fox has proved the best suited for domestication, although other kinds of furbearers are being successfully raised in captivity—mink, raccoon, skunk, marten, fisher, and fitch. The successful breeding of the fox on fur farms came in the period of rising prices after 1890 and the introduction of woven wire fencing. About the middle of the last century Persian lamb, astrachan and broadtail, the product of the Karakul sheep, a native of Bokhara, Central Asia, came into general use. A few of these sheep were imported into Canada some years ago, but the industry as a source of supply for pelts has not shown progress in this country. Experiments in the breeding of rabbits for their fur have resulted in the production of several valuable kinds, chief among which are the Chinchilla rabbit, whose fur resembles that of the Bolivian Chinchilla, and the castorrex, named on account of the likeness of its fur to that of the beaver (*castor canadensis Kuhl*). The fitch, a native of Germany, was introduced into Canada in 1929, and fitch farming has since made rapid strides. In 1933 the number of fitch farms was 43.

The important markets for Canadian furs are London and New York. At the close of the Great War, Montreal took a position as an international fur market, holding the first Canadian fur auction sale in 1920 when 949,565 pelts, valued at \$5,057,114, were sold. The most recent figures show that at the auction sales held in Montreal during 1933, there were 2,394,764 pelts disposed of, with a total value of \$3,461,530, lower prices rather than the kind or quality of the pelts accounting for the decrease in total value. Sales are also held at Winnipeg and Edmonton. An important industry in Canada in connection with the fur trade is that of the dressing and dyeing of furs. In 1933 the number of fur skins treated in Canadian plants was 7,320,741 and the amount received for the work, \$1,449,232. The plants in operation numbered 13.



**Exports.**—Though the bison is gone forever and the beaver and the marten are slowly following, the fur trade of Canada is in no immediate danger of extinction. A century ago the value of the export trade in furs exceeded that of any other product. This has been greatly changed, yet the total output has not declined and Canada may be described as one of the great fur preserves of the world. In 1667 exports of furs to France and the West Indies were valued at 550,000 francs. In 1850, the first year for which trade tables of the Province of Canada are available, the value of raw furs exported was £19,395 (\$93,872); for the twelve months ended June 30, 1920, the value was \$20,417,329; for 1925, \$17,131,172; for 1930, \$17,187,399 and for 1932, \$11,495,086. Raw furs to the value of \$11,180,052 were exported during the twelve months ended June 30, 1933, the British market taking \$7,122,874 worth and the United States most of the rest. The area which will continue to furnish the historic peltries when settlement has planted its furthest outpost will still have to be reckoned by the hundreds of thousands of square miles. It is the function of the fur trade to turn this vast domain to perpetual economic use.

For a review of the fur-farming industry of Canada, see Chapter VIII, pp. 275 to 278.



**Conservation.**—The conservation of the wild life of Canada has been made a special object of government policy through the organization, in 1916, of the Advisory Board on Wild Life Protection, to co-ordinate the efforts of various departments and branches of the Dominion Government in matters relating to the conservation of the wild-life resources of Canada. The Northwest Game Act and the Migratory Birds Convention Act are the most important subjects to which the attention of the Board is specially directed and upon which it makes recommendations. In addition, the Board investigates and studies all problems relating to the protection and better utilization of all fur-bearing animals, "big game" mammals and to bird life, whether game birds, insectivorous birds or others. The Board

serves entirely without remuneration and during the whole period of its existence has incurred no expenditure.

In all provinces and territories of the Dominion, regulations governing the taking of fur-bearing animals are in force, and most kinds are protected during certain seasons of the year. In cases where special protection is necessary to avoid extermination of the species, the killing of the animals is prohibited over a period of years. Licences are required for trapping and trading, and direct revenue is derived by the provinces and territories from raw furs. The activities of the Dominion as a whole, with respect to wild life, are co-ordinated through biennial conferences of provincial and Dominion game protection officials. These conferences are called by the Department of the Interior and have assisted in evolving efficient plans for the preservation of Canada's wild-life resources.

**Fur Production Statistics.**—Statistics of the number and value of raw furs and skins taken were collected at the Decennial Census of 1881 and thereafter till 1911, the figures showing a value of \$987,555 taken in 1880, \$768,983 in 1890, \$899,645 in 1900 and \$1,927,550 in 1910. In 1920 the Dominion Bureau of Statistics commenced the annual collection of returns from fur traders, but arrangements were subsequently made with the provinces whereby the provincial game departments undertook to supply annually to the Bureau statements of the number and value of pelts taken in the respective provinces, the information being based on royalties, export taxes, etc. The figures of pelts taken and their values are given for the available years in Table 1. The high value shown for 1920 is due to the inflated prices of that time.

**1.—Summary of the Numbers and Values of Pelts of Fur-Bearing Animals Taken in Canada, years ended June 30, 1920-33.**

| Year ended June 30. | Pelts.    | Value of Pelts.         | Year ended June 30. | Pelts.    | Value of Pelts. |
|---------------------|-----------|-------------------------|---------------------|-----------|-----------------|
|                     | No.       | \$                      |                     | No.       | \$              |
| 1920.....           | 3,600,004 | 21,387,005 <sup>1</sup> | 1927.....           | 4,289,233 | 18,864,126      |
| 1921.....           | 2,936,407 | 10,151,594              | 1928.....           | 3,601,153 | 18,758,177      |
| 1922.....           | 4,366,790 | 17,438,867              | 1929.....           | 5,150,328 | 18,745,473      |
| 1923.....           | 4,963,996 | 16,761,567              | 1930.....           | 3,798,444 | 12,158,376      |
| 1924.....           | 4,207,593 | 15,643,817              | 1931.....           | 4,060,356 | 11,803,217      |
| 1925.....           | 3,820,326 | 15,441,564              | 1932.....           | 4,449,289 | 10,189,481      |
| 1926.....           | 3,686,148 | 15,072,244              | 1933.....           | 4,503,558 | 10,350,154      |

<sup>1</sup> Fur prices in this year were abnormally high. Any comparison of this figure with those of later years should take this into account.

Details by provinces of the numbers of pelts taken in the two latest years are given in Table 2.

**2.—Numbers and Values of Pelts of Fur-Bearing Animals Taken in Canada, years ended June 30, 1932 and 1933.**

| Province or Territory.     | Numbers of Pelts. |                  | Values of Pelts.  |                   |
|----------------------------|-------------------|------------------|-------------------|-------------------|
|                            | 1931-32.          | 1932-33.         | 1931-32.          | 1932-33.          |
|                            |                   |                  | \$                | \$                |
| Prince Edward Island.....  | 20,696            | 17,852           | 693,314           | 466,244           |
| Nova Scotia.....           | 62,546            | 40,492           | 403,882           | 477,742           |
| New Brunswick.....         | 74,779            | 69,763           | 549,329           | 593,748           |
| Quebec.....                | 410,900           | 312,077          | 2,334,262         | 1,558,458         |
| Ontario.....               | 952,885           | 910,384          | 1,857,452         | 2,167,407         |
| Manitoba.....              | 577,607           | 555,424          | 689,396           | 856,289           |
| Saskatchewan.....          | 593,486           | 879,552          | 1,043,739         | 1,201,038         |
| Alberta.....               | 1,121,749         | 1,215,052        | 877,343           | 1,074,917         |
| British Columbia.....      | 201,522           | 181,361          | 576,102           | 668,030           |
| Northwest Territories..... | 375,440           | 269,319          | 1,032,394         | 1,095,226         |
| Yukon.....                 | 57,679            | 52,282           | 132,268           | 146,056           |
| <b>Totals.....</b>         | <b>4,449,289</b>  | <b>4,503,558</b> | <b>10,189,481</b> | <b>10,305,154</b> |

Among the provinces, Ontario occupies first place in value of raw fur production, its output in 1932-33 being valued at \$2,167,407. Quebec is second with \$1,558,458, and Saskatchewan third with \$1,201,038. The relation of the value of raw fur production in each province to the total for Canada in 1932-33 is shown by the following percentages: Ontario, 21·0; Quebec, 15·1; Saskatchewan, 11·7; Northwest Territories, 10·6; Alberta, 10·4; Manitoba, 8·3; British Columbia, 6·5; New Brunswick, 5·8; Nova Scotia, 4·7; Prince Edward Island, 4·5; and Yukon 1·4.

In order of value, silver fox is far ahead of any one of the other kinds, with a total in the season 1932-33 of \$3,135,885. Next in importance is the muskrat, with a total value of \$1,581,606, and following closely is mink, with \$1,438,375. None of the other kinds come to the million dollar mark. Beaver occupied in the season under review only fourth place, the value of output amounting to \$698,660. Otter, mentioned prominently along with beaver in the records of the early trade, had in the season 1932-33 a take of only 8,885 skins, valued at \$138,348. The value of the different kinds of fox, combined, for the season 1932-33 was \$4,891,563, or 47 p.c. of the entire output of Canadian furs in the season. Practically all of the silver fox pelts are from fur farms, and large proportions of the blue, patch or cross, and red fox pelts are likewise from the farms. White fox, on the other hand, is a product of the wilds, most of the pelts being taken in the Northwest Territories, and the northern parts of Quebec and Manitoba.

The following table gives details of raw fur production by kinds for 1932 and 1933.

**3.—Kinds, Numbers, Total Values and Average Values of Pelts of Fur-Bearing Animals Taken in Canada, years ended June 30, 1932 and 1933.**

| Kind.                       | Numbers of Pelts.            |                  | Total Values of Pelts.        |                   | Average Values per Pelt. |          |
|-----------------------------|------------------------------|------------------|-------------------------------|-------------------|--------------------------|----------|
|                             | 1931-32.                     | 1932-33.         | 1931-32.                      | 1932-33.          | 1931-32.                 | 1932-33. |
| Badger.....                 | 4,968                        | 3,159            | \$ 63,130                     | \$ 37,333         | \$ 12·71                 | \$ 11·82 |
| Bear, black and brown.....  | 2,754                        | 2,241            | 9,012                         | 5,257             | 3·27                     | 2·35     |
| Bear, grizzly.....          | 4 <sup>1</sup>               | 8                | 48 <sup>2</sup>               | 96                | 12·00 <sup>2</sup>       | 12·00    |
| Bear, white.....            | 130                          | 73               | 850                           | 914               | 6·54                     | 12·52    |
| Beaver.....                 | 65,276 <sup>2</sup>          | 71,699           | 754,837 <sup>2</sup>          | 698,660           | 11·56 <sup>2</sup>       | 9·74     |
| Coyote or prairie wolf..... | 23,566 <sup>2</sup>          | 22,426           | 211,819 <sup>2</sup>          | 173,915           | 8·99 <sup>2</sup>        | 7·76     |
| Ermine (weasel).....        | 827,646                      | 743,159          | 516,067                       | 402,517           | 0·62                     | 0·54     |
| Fisher or pekan.....        | 2,739                        | 2,530            | 128,202                       | 133,871           | 46·81                    | 52·91    |
| Fitch.....                  | 180                          | 668              | 574                           | 943               | 3·19                     | 1·41     |
| Fox, cross.....             | 11,369 <sup>2</sup>          | 19,658           | 321,433 <sup>2</sup>          | 502,385           | 28·27 <sup>2</sup>       | 25·55    |
| Fox, red.....               | 36,643 <sup>2</sup>          | 52,765           | 409,090 <sup>2</sup>          | 547,321           | 11·16 <sup>2</sup>       | 10·37    |
| Fox, silver.....            | 107,496 <sup>2</sup>         | 102,706          | 3,089,818 <sup>2</sup>        | 3,135,885         | 28·74                    | 30·53    |
| Fox, blue.....              | 1,232                        | 923              | 27,386                        | 19,787            | 22·23                    | 21·44    |
| Fox, white.....             | 67,416                       | 33,385           | 1,373,809                     | 682,059           | 20·38                    | 20·46    |
| Fox, unspecified.....       | 312                          | 387              | 4,116                         | 3,226             | 13·19                    | 8·33     |
| Lynx.....                   | 8,454 <sup>2</sup>           | 11,932           | 167,684 <sup>2</sup>          | 208,681           | 19·83 <sup>2</sup>       | 17·49    |
| Marten or sable.....        | 21,925 <sup>2</sup>          | 23,725           | 291,170 <sup>2</sup>          | 319,278           | 13·28 <sup>2</sup>       | 13·46    |
| Mink.....                   | 132,773 <sup>2</sup>         | 168,592          | 991,234 <sup>2</sup>          | 1,438,375         | 7·47 <sup>2</sup>        | 8·53     |
| Muskrat.....                | 2,632,984 <sup>2</sup>       | 2,731,490        | 1,403,993 <sup>2</sup>        | 1,581,606         | 0·53                     | 0·58     |
| Otter.....                  | 8,276 <sup>2</sup>           | 8,885            | 136,765 <sup>2</sup>          | 138,348           | 16·53 <sup>2</sup>       | 15·57    |
| Rabbit (Chinchilla).....    | 211                          | 49,832           | 143 <sup>2</sup>              | 3,178             | 0·68 <sup>2</sup>        | 0·06     |
| Rabbit (other).....         | 60,464                       | —                | 3,520                         | —                 | 0·06                     | —        |
| Raccoon.....                | 19,840                       | 19,515           | 81,290                        | 77,268            | 4·10 <sup>2</sup>        | 3·96     |
| Skunk.....                  | 113,901                      | 108,461          | 94,282                        | 95,962            | 0·83                     | 0·88     |
| Squirrel.....               | 288,793                      | 316,635          | 28,853                        | 22,160            | 0·10                     | 0·07     |
| Wild cat.....               | 800                          | 1,654            | 4,290                         | 5,369             | 5·36                     | 3·25     |
| Wolf.....                   | 6,876                        | 6,249            | 69,662                        | 66,987            | 10·13                    | 10·72    |
| Wolverine or carcajou.....  | 554 <sup>2</sup>             | 607              | 3,152 <sup>2</sup>            | 2,833             | 5·69 <sup>2</sup>        | 4·67     |
| Deer.....                   | 487                          | —                | 1,948                         | —                 | 4·00                     | —        |
| Moose.....                  | 115                          | —                | 687                           | —                 | 5·97                     | —        |
| Panther or cougar.....      | 701                          | —                | 526                           | —                 | 0·75                     | —        |
| Domestic cat.....           | 404                          | 194              | 91                            | 40                | 0·23                     | 0·21     |
| <b>Totals.....</b>          | <b>4,449,299<sup>2</sup></b> | <b>4,503,558</b> | <b>10,189,451<sup>2</sup></b> | <b>10,305,154</b> | <b>—</b>                 | <b>—</b> |

<sup>1</sup> Coyote or prairie wolf pelts for Manitoba are included with wolf pelts. <sup>2</sup> Revised since the publication of the 1933 Year Book.

## CHAPTER XI.—THE FISHERIES.\*

### Section 1.—The Early Fisheries.

Fishing is one of the earliest and most historic industries of Canada. From a date which precedes authentic record, the Normans, the Bretons and the Basques were on the cod banks of Newfoundland. Cabot, in 1497, when he first sighted the mainland of North America, gave it the name of "Bacalaos", the Basque word for cod fish which he found already in use among those hardy seamen. Cape Breton, one of the oldest place-names in America, is another memorial of the early French fishermen—and the Spaniards and the Portuguese were but little behind. Fernandez de Navarrete mentions all three as frequenters of the Grand Banks before 1502. The fishing was by hand lines over barrels made fast to the bulwarks to prevent fouling, the vessels remaining during fine weather then returning to France with from 30,000 to 50,000 cod. Voyages along the coast soon showed the cod as plentiful inshore as on the outer banks, and it became common for a crew to anchor in a bay, erect a hut on shore, and make daily excursions to the fishing grounds. The product was salted and dried on land and at the end of the season shipped to France. In 1534 Jacques Cartier found traces, in the gulf of St. Lawrence, of these early "Captains Courageous" and their rivalries in arms and in the capture of the teeming product which had tempted them so far from home. An establishment of the kind just mentioned was founded at Tadoussac by Chauvin in 1599. Soon the fishermen began to stay all winter and thus to erect permanent fishing settlements. Fishing, therefore, may well be regarded as the first industry to be systematically prosecuted by Europeans in what is to-day the Canadian domain. It has never since ceased to yield a perennial harvest to both Europe and America.

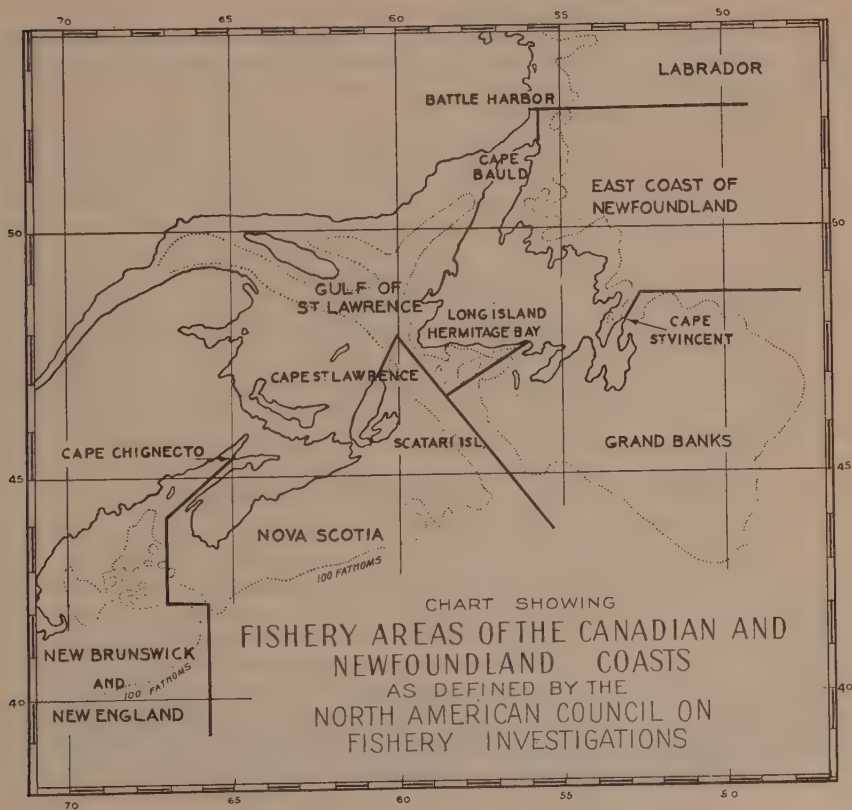
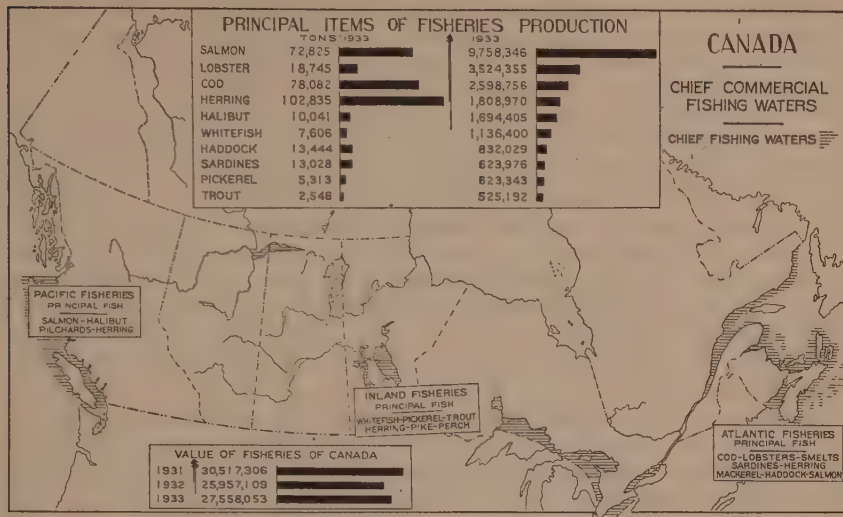
By the Treaty of Utrecht in 1713, Britain became the owner of Newfoundland and excluded the French from fishing and drying fish on certain sections of the coast, but France retained rights of fishing and of drying fish on other sections of the Newfoundland coast together with the fisheries of Cape Breton and the Gulf. These French rights resulted in the French Shore question which remained unsettled for nearly two centuries. The Seven Years' War (1756-63) put a stop to continuous fishing. At its close the Robin family of Jersey came to Canada and gradually acquired the former French fishing stations. Until the arrival of the Loyalists all other fishing but cod was neglected. Inshore fisheries alone (including those of the Labrador coast) were developed during this phase; no deep-sea fishing vessel put out from Lunenburg, now the chief centre of the deep-sea fishery, until 1873.

### Section 2.—The Canadian Fishing Grounds.

The fishing grounds of the Dominion of Canada are perhaps the most extensive in the world. On the Atlantic, from Grand Manan to Labrador, the coast line, not including the lesser bays and indentations, measures over 5,000 miles. The bay of Fundy, 8,000 square miles in extent, the gulf of St. Lawrence, fully ten times that size, and other ocean waters comprise not less than 200,000 square miles, or over four-fifths of the area of the fishing grounds of the North Atlantic.

\*Revised by Miss F. A. Brown, Chief, Fisheries Statistics Branch, Dominion Bureau of Statistics. This Branch publishes an Annual Report on the Fisheries Statistics of Canada, together with advance summaries on Fish Caught, Marketed and Prepared, by provinces. These may be obtained from the Dominion Statistician.





In addition there are on the Atlantic seaboard 15,000 square miles of inshore waters controlled entirely by the Dominion. Large as are these areas, they represent only a part of the fishing grounds of Canada. The Pacific coast of the Dominion measures 7,180 miles in length and is exceptionally well sheltered. Throughout the interior is a series of lakes which together contain more than half of the fresh water on the globe—Canada's share of the Great Lakes alone amounts to over 34,000 square miles, a total which, of course, does not include lake Winnipeg (9,457 square miles), lake Manitoba and others of even greater area.

Still more important than the extent of the Canadian fishing grounds is the quality of their product. It is an axiom among authorities that food fishes improve in proportion to the purity and coldness of the waters from which they are taken. Judged by this standard, the Canadian cod, halibut, herring, mackerel, whitefish and salmon are the peers of any in the world. It is possible, therefore, to state that by far the most valuable fisheries of the western hemisphere, if not of the globe, belong to Canada.

It will be seen from the above that it is impossible to deal adequately with the Canadian fisheries in the aggregate; they are those of a continent rather than of a country, and are of corresponding diversity. Omitting the enormous Hudson Bay and peri-Arctic region, which extends from Ungava to Alaska and the fish resources of which are not known, the Canadian fisheries may be divided into Atlantic, inland and Pacific fisheries.

A detailed description of these respective fishing grounds of Canada, of the fish caught on these grounds, and of the methods of fishing, will be found at pp. 222-225 of the 1932 Year Book.

Lobstering is another distinctive industry. In 1870, there were three lobster canneries on the Atlantic coast of Canada; in 1933 the canneries numbered 329 and gave work to 6,000 people: 30,000,000 lobsters is a normal catch. The difficulty of enforcing regulations as to the capture of undersized and spawning lobsters offers a constant problem in connection with the output, but with the co-operation of the fishermen there is hope that the fishery may be maintained and the annual harvest show no decline. In New Brunswick the canning of "sardines" (locally young herring and not a distinct type of fish) is second only to lobstering. Oysters, once plentiful everywhere, are now found in diminished quantities, but the Government is working towards the restoration of the industry through the development of oyster farming; favourable areas in Prince Edward Island waters have been seeded and the work in connection with oyster culture is being carried on under the direction of experts.

### Section 3.—The Government and the Fisheries.

Upon the organization of the Government at Confederation, the administration of the Canadian fisheries and marine was placed in the charge of a department of the Dominion Government, which then exercised complete jurisdiction over the fisheries under the supervision of a Minister, with a large staff of inspectors, overseers and guardians to enforce the fishery laws. Early in 1930 a change in departmental organization was effected, whereby two departments, each in charge of a Minister, were created to administer respectively the Marine and the Fisheries.

In 1882, 1898, 1913 and 1920, decisions in the courts considerably altered the status of jurisdiction as between the Dominion and the provinces. The Dominion now controls the tidal fisheries of the Maritime Provinces and British Columbia

and the fisheries of Yukon and the Northwest Territories and the Magdalen islands. The non-tidal fisheries of the Maritime Provinces, the Prairie Provinces and Ontario, and both the tidal and non-tidal fisheries of Quebec (except the fisheries of the Magdalen islands) are controlled by the respective provinces, but the right of fisheries legislation for all provinces rests with the Dominion Government. [See the Fisheries Act (R.S.C., 1927, c. 73).] The expenditure of the Dominion on the fisheries in the fiscal year 1933-34, including civil government salaries, contingencies, etc., was \$1,599,567, and the revenue \$132,581.

**Conservation.**—River and lake fisheries certainly, and sea fisheries probably, if left to themselves, conform to the economic law of diminishing returns. The Canadian Government, accordingly, has had for a main object the prevention of depletion, the enforcement of closed seasons, the forbidding of obstructions and pollutions and the regulation of nets, gear and fishing operations generally. In addition, an extensive system of fish culture has been organized; the Dominion, in 1933, operated 24 main hatcheries, 9 subsidiary hatcheries and 8 salmon-retaining ponds at a cost of \$205,682, and distributed 109,500,000 eggs, fry or older fish, mostly salmon and trout. The young fish are distributed gratis if the waters in which they are to be placed are suitable and are open to public fishing. Investigations and experiments directed toward the culture of the oyster have been carried on since 1929 at Malpeque bay, P.E.I., by the Dominion Department of Fisheries.

**Direct Assistance.**—Since 1927 fish collection services have been operated on several stretches of the Atlantic coast by the Department of Fisheries. Fishermen in the waters covered by the fish-collection boats are thus enabled to sell their catches promptly and have them delivered to purchasers at central points at small cost. They are also able to spend their time in catching fish instead of in preparing their catches for the dried-and-cured-fish markets. Again, a system has been established of broadcasting radio reports as to weather probabilities, bait and ice supplies, ice conditions along the coast and prevailing prices. Further, under authority of the Fish Inspection Act (R.S.C., 1927, c. 72), systems of instruction in improved methods of fish-curing and barrel-making have been in operation for several years.

**Scientific Research.**—Stations under the direction of the Biological Board of Canada for the conduct of biological research into the numerous complex problems furnished by the fisheries are established at Halifax, N.S., St. Andrews, N.B., and Nanaimo and Prince Rupert, B.C. The biological stations at St. Andrews and Nanaimo are concerned chiefly with problems of fish life, while at the fisheries experimental stations at Halifax and Prince Rupert, attention is devoted to the practical problems of the fishing industry. A marine biological station, chiefly for oyster investigation work, is conducted at Ellerslie, P.E.I., and a sub-station for salmon investigations at Cultus Lake, B.C. The Biological Board employs a permanent staff of scientists, and in addition, Toronto, McGill, Queen's, Manitoba, British Columbia and the chief Maritime Provinces' universities send workers to the several stations, chiefly professors and trained scientists. The life-histories of edible fishes, the bacteriology of fresh and cured fish, improved methods of handling and preparing fish, and numerous other practical problems have been taken up and scientific memoirs and reports issued.

**International Problems.**—The chief international fisheries problem is the question of the rights of the United States, whose fishermen were granted, by the Treaty of Versailles, 1783, certain privileges in the Canadian inshore fisheries. Losing these by the War of 1812, the United States, after 1818, surrendered all but

their right to call at Canadian ports for shelter, wood, water, or to make repairs, and to fish around the Magdalen islands and on the north shore of the gulf of St. Lawrence from Point Joli eastward, and to dry and cure their fish in any of the unsettled bays on this portion of the North Shore.

Questions of interpretations to be placed on certain parts of the Treaty of 1818 were set at rest for the years 1854-66 by the Reciprocity Treaty. This treaty provided for the free admission into either country of the fish products of the other, and fishermen of each country were allowed to fish in the Atlantic territorial waters of the other, with the exception of specified rivers and other grounds.

In 1871, the Treaty of Washington revived the fishery provisions of the Reciprocity Treaty of 1854, and provided for a commission to determine the compensation to be paid by the United States as the difference in the value of the concessions mutually granted. This commission sat at Halifax in 1877, handing down the "Halifax Award", the amount of which was \$5,500,000. In 1885, however, the United States terminated the fisheries articles of this treaty and a period of disagreement followed. A settlement was negotiated in 1888, when the plenipotentiaries of the two nations agreed to the "Unratified Treaty of 1888", which provided that United States' fishing vessels were to be granted, without fee, annual licences authorizing them to purchase provisions and outfits in Canadian ports, to tranship catches and to ship crews. Out of this treaty grew the so-called *modus vivendi* licences. Since it was recognized that the treaty could not receive official sanction before the commencement of the fishing season, it was agreed that United States' fishing vessels, on payment of \$1.50 per registered ton, should receive annual licences conveying the above privileges. The treaty was rejected by the United States' Senate but Canada continued to issue *modus vivendi* licences up to 1918, when arrangements were made for reciprocal privileges in the ports of either country. The arrangement was discontinued in the United States on July 1, 1921. In the following year the *modus vivendi* licences were revived in Canada but the system was terminated on Dec. 31, 1923, and for several years United States' fishing vessels were limited to the provisions of the Treaty of 1818. In 1933 the two countries made a further arrangement, and the *modus vivendi* licence plan under which United States' vessels are allowed to enter Canadian ports to buy bait or to obtain supplies of water, is again in operation.

On the Great Lakes also, the more important fishery problems, such as restocking and marketing, are necessarily international in character, and are complicated by the number of State governments interested. Much the same situation has developed in British Columbia, where the sockeye of the Fraser are taken by the canners of Puget sound in quantities that largely exceed the catch of the Canadian canners, and by trap nets and other methods forbidden in Canadian waters. In 1906 an international commission first discussed the question, while in 1922 the prohibition of sockeye fishing in the Fraser for five years, with a view to conservation, was recommended by a Parliamentary commission.

*The Halibut Fishery.*—The halibut fishery on this side of the Pacific is engaged in only from Canadian and United States' ports, but, owing to the fact that it is largely carried on beyond territorial waters, neither country alone can control it. At the same time it is in the interests of both countries that the fishery should be permanently maintained in a flourishing condition. The question of finding an adequate method of dealing with the matter was therefore referred to the Canadian-American Fisheries Conference that was appointed in 1918 by the Governments of



the two countries to consider the settlement of outstanding fishery questions between Canada and the United States. In 1922, Canada proposed that the halibut question should be considered by itself. This was agreed to, and resulted in the treaty signed Mar. 2, 1923, "For the Protection of the Pacific Halibut". Under this treaty a closed season in each year was provided for halibut fishing. A further convention, signed by the plenipotentiaries of both countries at Ottawa on May 9, 1930, and ratified by the Governments of the two countries on May 9, 1931, provided certain additional regulations in connection with the division of the waters into fishing areas, changing of dates for closed seasons, etc. This revised convention provides a simpler and more responsive system of control than was previously possible.\*

**Fishing Bounties.**—An important though indirect aftermath of the Washington Treaty remains. By an Act of 1882 (45 Vict., c. 18), for the development of the sea fisheries and the encouragement of boat-building, provision was made for the distribution, annually, among fishermen and the owners of fishing boats on the Atlantic waters of \$150,000 in bounties, representing the interest on the amount of the Halifax Award. An Act of 1891 (54-55 Vict., c. 42) increased the amount to \$160,000, the details of the expenditure to be settled each year by Order in Council. For the year 1933, payment was made under authority of the Deep Sea Fisheries Act (R.S.C., 1927, c. 74) on the following basis: to owners of vessels entitled to receive bounty, \$1 per registered ton, payment to the owner of any one vessel not to exceed \$80; to vessel fishermen entitled to receive bounty, \$6.10 each; to owners of boats measuring not less than 12 feet keel, \$1 per boat; to boat fishermen entitled to receive bounty, \$5.20 each. The claims paid numbered 12,836, compared with 12,292 paid in the previous year. The total amount paid in 1933 was \$159,311. Details of the distribution of bounties for the years 1930 to 1933 are as follows:—

**1.—Government Bounties Paid to Fishermen for the calendar years 1930-33.**

| Province.                 | Numbers of Men who Received Bounties. |               |               |               | Amounts of Bounties Paid. |                |                |                |
|---------------------------|---------------------------------------|---------------|---------------|---------------|---------------------------|----------------|----------------|----------------|
|                           | 1930.                                 | 1931.         | 1932.         | 1933.         | 1930.                     | 1931.          | 1932.          | 1933.          |
|                           | No.                                   | No.           | No.           | No.           | \$                        | \$             | \$             | \$             |
| Prince Edward Island..... | 1,400                                 | 1,498         | 1,668         | 1,984         | 9,809                     | 9,671          | 10,287         | 11,519         |
| Nova Scotia.....          | 10,024                                | 10,512        | 11,151        | 11,386        | 80,050                    | 76,748         | 74,632         | 72,921         |
| New Brunswick.....        | 2,849                                 | 3,221         | 3,326         | 3,462         | 23,414                    | 24,643         | 25,486         | 24,456         |
| Quebec.....               | 6,745                                 | 7,606         | 8,199         | 8,715         | 46,501                    | 48,370         | 49,376         | 50,415         |
| <b>Totals.....</b>        | <b>21,018</b>                         | <b>22,837</b> | <b>24,344</b> | <b>25,547</b> | <b>159,774</b>            | <b>159,432</b> | <b>159,781</b> | <b>159,311</b> |

**Fisheries Statistics.**—The fisheries statistics of Canada are issued under an arrangement for statistical co-operation between the Dominion Bureau of Statistics, the Dominion Department of Fisheries and those branches of the different Provincial Governments having jurisdiction with regard to fisheries. The Department of Fisheries of the Dominion Government exercises jurisdiction over the fisheries of the Maritime Provinces, the Northwest Territories, Yukon and British Columbia; and the Fisheries Branches of Ontario, Quebec, Manitoba, Saskatchewan and

\*For a pamphlet containing the text of this revised convention application should be made to the Department of Fisheries, Ottawa.

Alberta have jurisdiction over the fisheries of their respective provinces, excepting that in the case of Quebec the fisheries of the Magdalen islands are under the jurisdiction of the Dominion authorities. The province of British Columbia has a Fisheries Branch, but it does not engage in independent statistical work. Under the arrangement above referred to, the statistics of the catch and of the products marketed in the fresh state or domestically prepared are collected by the local fishery officers, checked in the Department of Fisheries and compiled in the Dominion Bureau of Statistics. In the case of manufactured fish products, schedules similar to those of other sections of the Census of Industry are sent by the Bureau to the operators of canneries, fish-curing establishments, etc., the fisheries officers assisting in securing expeditious and correct reports.

#### Section 4.—The Modern Fishing Industry.

The existing fishing industry of Canada is in the main the growth of the past half century. No comparable figures of production are available for years prior to the confederation of the provinces, but about 1836 the production of fish in what are now the three Maritime Provinces had an estimated value of something like \$1,500,000, while the production of Lower Canada was probably worth \$1,000,000. In 1870 the total was \$6,600,000 and this was more than doubled by 1878. In the '90's it passed \$20,000,000 and in 1912, \$34,000,000. The highest figure was reached in 1918, with over \$60,000,000, but this was in a period of greatly inflated prices. Between that year and 1921 the total value of the products of the fisheries decreased and in the latter year was back to \$34,000,000. From 1921 to 1926 a steady increase to \$56,000,000 took place and in the following three years the value fluctuated around the \$50,000,000 mark. The prevailing world-wide depression has affected the markets for fish products; the value dropped to \$30,517,306 in 1931 and to \$25,957,109 in 1932. In 1933 conditions were improved, and the value rose to \$27,558,053. These figures represent the total values of fish marketed, whether in a fresh, dried, canned, or otherwise prepared state.

The number of employees, which was 74,882 in 1931, rose to 78,208 in 1932 and to 79,548 in 1933, while the value of the capital investment of the industry, which was \$45,325,514 in 1931, fell to \$41,789,278 in 1932 and to \$40,912,857 in 1933.\*

Among individual fish products the cod and the salmon long disputed the primacy; if the record is taken back to early times, the cod is the most valuable fish; in the past 30 years, however, the salmon has definitely taken the lead, and the heavy pack and relatively high price of lobsters have, in recent years, sent cod down to third place. Halibut, for a number of years prior to 1931, occupied fourth place but has now dropped to fifth place, yielding fourth place to herring. These changes have, of course, affected the relative standing of the provinces, British Columbia now occupying the leading place that in earlier times belonged to Nova Scotia, and producing in recent years fish products to nearly half the total value. The yearly record of production since 1870, the total production by provinces for the past six years, and the record by values of principal fish products for the past five years in descending order of importance, are shown in Tables 2, 3 and 4. The aggregate value of production in 1933, \$27,558,053, shows an increase of 6 p.c. over the figure of \$25,957,109 in 1932.

\* For detailed historical statistics of the fisheries, see pp. 52-56 of Fisheries Statistics of Canada, 1933, obtainable from the Dominion Statistician.

**2.—Total Values of the Products of the Fisheries of Canada, 1870-1933.**

NOTE.—From 1870 to 1906 inclusive, years ended June 30; from 1908 to 1917 (a) inclusive, years ended Mar. 31; since and including 1917 (b), calendar years. No statistics are available for the nine-month period ended Mar. 31, 1907.

| Year.     | Value.     | Year.     | Value.                  | Year.         | Value.                  | Year.     | Value.     |
|-----------|------------|-----------|-------------------------|---------------|-------------------------|-----------|------------|
|           | \$         |           | \$                      |               | \$                      |           | \$         |
| 1870..... | 6,577,391  | 1886..... | 18,679,288              | 1902.....     | 21,959,433              | 1918..... | 60,259,744 |
| 1871..... | 7,573,199  | 1887..... | 18,386,103              | 1903.....     | 23,100,878 <sup>1</sup> | 1919..... | 56,508,479 |
| 1872..... | 9,570,116  | 1888..... | 17,418,508 <sup>1</sup> | 1904.....     | 23,516,439              | 1920..... | 49,241,339 |
| 1873..... | 10,754,997 | 1889..... | 17,655,254 <sup>1</sup> | 1905.....     | 29,479,562              | 1921..... | 34,931,935 |
| 1874..... | 11,681,886 | 1890..... | 17,714,900 <sup>1</sup> | 1906.....     | 26,279,485              | 1922..... | 41,800,210 |
| 1875..... | 10,350,385 | 1891..... | 18,977,874 <sup>1</sup> | 1908.....     | 25,499,349              | 1923..... | 42,565,545 |
| 1876..... | 11,117,000 | 1892..... | 18,941,169 <sup>1</sup> | 1909.....     | 25,451,085              | 1924..... | 44,534,235 |
| 1877..... | 12,005,934 | 1893..... | 20,686,659 <sup>1</sup> | 1910.....     | 29,629,169              | 1925..... | 47,942,131 |
| 1878..... | 13,215,678 | 1894..... | 20,719,570 <sup>1</sup> | 1911.....     | 29,965,142 <sup>1</sup> | 1926..... | 56,360,633 |
| 1879..... | 13,529,254 | 1895..... | 20,199,338              | 1912.....     | 34,667,872              | 1927..... | 49,123,609 |
| 1880..... | 14,499,979 | 1896..... | 20,407,424 <sup>1</sup> | 1913.....     | 33,389,464              | 1928..... | 55,050,973 |
| 1881..... | 15,817,162 | 1897..... | 22,783,544 <sup>1</sup> | 1914.....     | 33,207,748              | 1929..... | 53,518,521 |
| 1882..... | 16,824,092 | 1898..... | 19,667,121              | 1915.....     | 31,264,631              | 1930..... | 47,804,216 |
| 1883..... | 16,958,192 | 1899..... | 21,891,706              | 1916.....     | 35,860,708              | 1931..... | 30,517,306 |
| 1884..... | 17,766,404 | 1900..... | 21,557,639              | 1917 (a)..... | 39,208,378              | 1932..... | 25,957,109 |
| 1885..... | 17,722,973 | 1901..... | 25,737,153              | 1917 (b)..... | 52,312,044              | 1933..... | 27,558,053 |

<sup>1</sup>Revised since the publication of the 1933 Year Book.

**3.—Total Values of the Products of the Fisheries, by Provinces, calendar years 1928-33.**

| Province.                 | 1928.             | 1929.             | 1930.             | 1931.             | 1932.             | 1933.             |
|---------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                           | \$                | \$                | \$                | \$                | \$                | \$                |
| Prince Edward Island..... | 1,196,681         | 1,297,125         | 1,141,279         | 1,078,901         | 988,919           | 842,345           |
| Nova Scotia.....          | 11,681,995        | 11,427,491        | 10,411,202        | 7,986,711         | 6,557,943         | 6,010,601         |
| New Brunswick.....        | 5,001,641         | 5,935,635         | 4,853,575         | 4,169,811         | 2,972,682         | 3,061,152         |
| Quebec.....               | 2,996,614         | 2,933,339         | 2,502,998         | 1,952,894         | 1,815,544         | 2,128,471         |
| Ontario.....              | 4,030,753         | 3,919,144         | 3,294,629         | 2,477,131         | 2,147,990         | 2,089,842         |
| Manitoba.....             | 2,240,314         | 2,745,205         | 1,811,962         | 1,241,575         | 1,204,892         | 1,076,136         |
| Saskatchewan.....         | 563,533           | 572,871           | 234,501           | 317,963           | 186,174           | 186,417           |
| Alberta.....              | 725,050           | 732,214           | 421,258           | 153,897           | 153,789           | 144,518           |
| British Columbia.....     | 26,562,727        | 23,930,692        | 23,103,302        | 11,108,873        | 9,909,116         | 12,001,471        |
| Yukon.....                | 51,665            | 24,805            | 29,510            | 29,550            | 20,060            | 17,100            |
| <b>Totals.....</b>        | <b>55,050,973</b> | <b>53,518,521</b> | <b>47,804,216</b> | <b>30,517,306</b> | <b>25,957,109</b> | <b>27,558,053</b> |

4.—Quantities<sup>1</sup> and Values<sup>2</sup> of the Chief Commercial Fishes, calendar years 1929-33.

| Kind of Fish.                   | 1929.                   | 1930.                   | 1931.                  | 1932.                  | 1933.                  | Increase (+)<br>or<br>Decrease (—)<br>1933<br>compared<br>with 1932. |
|---------------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|----------------------------------------------------------------------|
| Salmon.....cwt.<br>\$           | 1,550,780<br>15,008,825 | 2,362,529<br>17,731,891 | 1,343,701<br>7,972,017 | 1,331,054<br>8,037,904 | 1,456,501<br>9,758,346 | + 125,447<br>+ 1,720,442                                             |
| Lobsters.....cwt.<br>\$         | 372,820<br>5,696,542    | 407,265<br>5,214,643    | 435,490<br>5,037,028   | 483,488<br>4,745,311   | 374,916<br>3,524,355   | — 108,572<br>— 1,220,956                                             |
| Cod.....cwt.<br>\$              | 1,979,440<br>5,394,636  | 1,662,421<br>4,288,813  | 1,463,626<br>2,827,350 | 1,428,941<br>2,193,621 | 1,561,647<br>2,598,756 | + 132,706<br>+ 405,135                                               |
| Herring.....cwt.<br>\$          | 2,317,806<br>3,186,669  | 2,190,776<br>2,623,174  | 2,462,751<br>2,330,044 | 1,862,372<br>1,473,288 | 2,056,706<br>1,808,970 | + 194,334<br>— 335,682                                               |
| Halibut.....cwt.<br>\$          | 335,824<br>4,832,296    | 282,605<br>2,871,455    | 210,926<br>1,780,044   | 193,845<br>1,227,680   | 200,824<br>1,694,405   | + 6,979<br>+ 466,725                                                 |
| Whitefish.....cwt.<br>\$        | 196,386<br>2,453,703    | 169,747<br>1,818,941    | 156,215<br>1,425,311   | 138,478<br>1,193,634   | 152,135<br>1,136,400   | + 13,657<br>— 57,234                                                 |
| Haddock.....cwt.<br>\$          | 545,400<br>1,951,642    | 486,344<br>1,851,724    | 363,850<br>1,362,876   | 360,185<br>1,114,802   | 268,881<br>832,029     | — 91,304<br>— 282,773                                                |
| Sardines.....brl.<br>\$         | 249,194<br>1,626,764    | 129,459<br>1,074,487    | 63,660<br>837,560      | 66,910<br>426,914      | 130,485<br>623,970     | + 63,575<br>+ 197,062                                                |
| Pickarel or doré.....cwt.<br>\$ | 128,500<br>1,453,847    | 103,146<br>939,762      | 92,349<br>765,492      | 89,498<br>707,957      | 106,272<br>623,343     | + 16,774<br>— 84,614                                                 |
| Trout.....cwt.<br>\$            | 90,854<br>1,324,775     | 69,809<br>1,031,979     | 57,420<br>707,522      | 50,198<br>557,988      | 50,932<br>525,192      | + 734<br>— 32,796                                                    |
| Smelts.....cwt.<br>\$           | 83,984<br>1,190,908     | 66,121<br>853,034       | 74,522<br>652,837      | 96,163<br>690,964      | 77,699<br>495,632      | — 18,464<br>— 195,332                                                |
| Mackerel.....cwt.<br>\$         | 152,756<br>536,021      | 178,464<br>598,019      | 196,248<br>502,477     | 178,453<br>276,947     | 263,316<br>396,306     | + 84,863<br>+ 119,359                                                |
| Tullibee.....cwt.<br>\$         | 97,669<br>687,731       | 62,041<br>461,676       | 42,804<br>190,421      | 47,644<br>224,138      | 42,300<br>265,204      | — 5,344<br>+ 41,066                                                  |
| Blue pickarel.....cwt.<br>\$    | 25,831<br>333,220       | 59,284<br>420,917       | 54,048<br>178,359      | 40,610<br>174,623      | 42,164<br>257,201      | + 1,554<br>+ 82,578                                                  |
| Perch.....cwt.<br>\$            | 67,055<br>616,722       | 43,762<br>346,649       | 51,415<br>231,736      | 60,972<br>272,110      | 40,945<br>242,123      | — 20,027<br>— 29,987                                                 |
| Swordfish.....cwt.<br>\$        | 6,336<br>98,241         | 11,933<br>214,806       | 12,629<br>236,617      | 10,359<br>99,585       | 17,137<br>208,038      | + 6,778<br>+ 108,453                                                 |
| Ling cod.....cwt.<br>\$         | 48,489<br>415,776       | 49,591<br>333,564       | 50,987<br>239,014      | 39,960<br>159,534      | 40,282<br>198,570      | + 322<br>+ 39,036                                                    |
| Scallops.....brl.<br>\$         | 17,921<br>116,961       | 18,636<br>95,522        | 11,788<br>41,641       | 23,396<br>77,141       | 43,172<br>161,779      | + 19,776<br>+ 84,638                                                 |
| Hake and cusk.....cwt.<br>\$    | 339,217<br>517,311      | 294,376<br>431,566      | 171,748<br>191,898     | 128,208<br>133,600     | 177,514<br>149,211     | + 49,306<br>— 15,611                                                 |
| Eels.....cwt.<br>\$             | 14,530<br>133,542       | 16,388<br>147,114       | 20,083<br>125,981      | 21,476<br>110,317      | 27,404<br>148,995      | + 5,928<br>+ 38,678                                                  |
| Oysters.....brl.<br>\$          | 24,959<br>226,876       | 23,942<br>205,019       | 24,337<br>193,563      | 23,041<br>115,102      | 22,424<br>126,533      | — 617<br>+ 11,431                                                    |
| Saugers.....cwt.<br>\$          | 8,181<br>63,478         | 8,961<br>62,482         | 18,279<br>74,194       | 18,942<br>105,404      | 24,914<br>115,635      | + 5,972<br>+ 10,231                                                  |
| Pike.....cwt.<br>\$             | 82,546<br>409,970       | 56,464<br>228,905       | 45,452<br>161,674      | 41,400<br>133,250      | 41,146<br>112,312      | — 254<br>— 20,938                                                    |
| Clams and quahaugs..brl.<br>\$  | 67,739<br>346,772       | 64,709<br>319,469       | 56,053<br>227,614      | 49,922<br>167,851      | 38,281<br>107,522      | — 11,641<br>— 60,329                                                 |

<sup>1</sup> Quantities caught.<sup>2</sup> Values marketed.



**Quantities and Values in Recent Years.** The wide variations in prices from year to year make total values misleading. On the other hand, the quantities of different kinds of fish are stated in many different units which make the total volume of production difficult to compare from year to year. An effort is made to overcome these difficulties in Tables 5 and 5A by working out what the values would be in a later year if prices had remained the same as in the preceding year. From 1931 to 1932 there was a decline of 15 p.c. in the total value of the fisheries. The decrease due to lower prices was 11.5 p.c., while that due to a smaller catch was 3.5 p.c. In 1933 there was some improvement and total value increased by 6.2 p.c. over 1932. The increase due to better prices was 4.3 p.c., while larger quantities caught accounted for an increase of 1.9 p.c. in total values. The improvement in 1933, although encouraging as the first change in a declining trend which had persisted since 1928, was not large, so that total values in 1933 were still lower than those of 1931 by 9.7 p.c.—7.9 p.c. due to lower prices and only 1.8 p.c. due to smaller catch. During the longer period from 1928 to 1933 total values have declined from \$55,051,000 to \$27,558,000 or by 50.0 p.c. The decline due to lower prices has been 28.8 p.c., while that due to a reduction in the catch has been 21.2 p.c.

**5.—Yields of the Fisheries of Canada, Compared as to Quantity and Value, for 1931 and 1932. ('000' omitted.)**

| Kind of Fish or Product.    | Actual Value, 1932. | Value at Prices of 1931. | Actual Value, 1931. | Increase (+) or Decrease (-) | Due to Higher (+) or Lower (-) Prices. | Due to Larger (+) or Smaller (-) Quantities. |
|-----------------------------|---------------------|--------------------------|---------------------|------------------------------|----------------------------------------|----------------------------------------------|
|                             | \$                  | \$                       | \$                  |                              |                                        | \$                                           |
| Salmon.....                 | 8,038               | 7,900                    | 7,972               | +                            | 66                                     | 72                                           |
| Lobsters.....               | 4,745               | 5,593                    | 5,037               | -                            | 292                                    | 556                                          |
| Cod.....                    | 2,194               | 2,761                    | 2,827               | -                            | 633                                    | 66                                           |
| Herring.....                | 1,473               | 1,763                    | 2,330               | -                            | 857                                    | 567                                          |
| Halibut.....                | 1,228               | 1,636                    | 1,780               | -                            | 552                                    | 144                                          |
| Whitefish.....              | 1,194               | 1,264                    | 1,425               | -                            | 231                                    | 161                                          |
| Haddock.....                | 1,115               | 1,349                    | 1,363               | -                            | 248                                    | 14                                           |
| Pickeral or doré.....       | 708                 | 742                      | 765                 | -                            | 57                                     | 23                                           |
| Smelts.....                 | 691                 | 843                      | 653                 | +                            | 38                                     | 190                                          |
| Trout.....                  | 558                 | 619                      | 708                 | -                            | 150                                    | 89                                           |
| Sardines.....               | 427                 | 880                      | 838                 | -                            | 411                                    | 42                                           |
| Pilchards.....              | 384                 | 487                      | 808                 | -                            | 424                                    | 321                                          |
| Mackerel.....               | 277                 | 457                      | 502                 | -                            | 225                                    | 45                                           |
| Perch.....                  | 272                 | 275                      | 232                 | +                            | 40                                     | 43                                           |
| Tullibee.....               | 224                 | 212                      | 190                 | +                            | 34                                     | 22                                           |
| Mixed fish.....             | 201                 | 129                      | 177                 | +                            | 24                                     | 48                                           |
| Blue pickerel.....          | 175                 | 134                      | 178                 | -                            | 3                                      | 44                                           |
| Clams and quahaugs.....     | 168                 | 203                      | 228                 | -                            | 60                                     | 25                                           |
| Ling cod.....               | 160                 | 187                      | 239                 | -                            | 79                                     | 52                                           |
| Hake and cusk.....          | 134                 | 143                      | 192                 | -                            | 58                                     | 49                                           |
| Pike.....                   | 133                 | 147                      | 162                 | -                            | 29                                     | 15                                           |
| Oysters.....                | 115                 | 183                      | 194                 | -                            | 79                                     | 11                                           |
| Eels.....                   | 110                 | 135                      | 126                 | -                            | 16                                     | 9                                            |
| Saugers.....                | 105                 | 77                       | 74                  | +                            | 31                                     | 3                                            |
| Swordfish.....              | 100                 | 194                      | 237                 | -                            | 137                                    | 43                                           |
| Sturgeon.....               | 93                  | 127                      | 99                  | -                            | 6                                      | 28                                           |
| Catfish.....                | 84                  | 86                       | 88                  | -                            | 4                                      | 2                                            |
| Scallops.....               | 77                  | 83                       | 42                  | +                            | 35                                     | 41                                           |
| Carp.....                   | 67                  | 77                       | 69                  | -                            | 2                                      | 8                                            |
| Alewives.....               | 67                  | 82                       | 95                  | -                            | 28                                     | 13                                           |
| Pollock.....                | 64                  | 94                       | 62                  | +                            | 2                                      | 32                                           |
| Shad.....                   | 54                  | 91                       | 65                  | -                            | 11                                     | 26                                           |
| Soles.....                  | 47                  | 50                       | 50                  | -                            | 3                                      | -                                            |
| Black cod.....              | 39                  | 43                       | 40                  | -                            | 1                                      | 3                                            |
| Goideyes.....               | 38                  | 35                       | 39                  | -                            | 1                                      | 4                                            |
| Seals.....                  | 30                  | 34                       | 26                  | +                            | 4                                      | 8                                            |
| Flounders, Brill, etc.....  | 27                  | 27                       | 28                  | -                            | 1                                      | 1                                            |
| Shrimps.....                | 20                  | 19                       | 16                  | +                            | 4                                      | 3                                            |
| Grayfish.....               | 12                  | 30                       | 54                  | -                            | 42                                     | 24                                           |
| Tom cod.....                | 8                   | 14                       | 51                  | -                            | 43                                     | 37                                           |
| Fish meal, n.e.s.....       | 130                 | 59                       | 217                 | -                            | 87                                     | 158                                          |
| Other fishery products..... | 171                 | 194                      | 239                 | -                            | 68                                     | 45                                           |
| <b>Totals.....</b>          | <b>25,957</b>       | <b>29,458</b>            | <b>30,517</b>       | <b>-</b>                     | <b>4,560</b>                           | <b>3,501</b>                                 |
| Decreases per cent.....     | -                   | -                        | -                   | -                            | 15.0                                   | 11.5                                         |

**5A.—Yields of the Fisheries of Canada, Compared as to Quantity and Value, for 1932 and 1933. ('000' omitted.)**

| Kind of Fish or Product.    | Actual Value, 1933. | Value at Prices of 1932. | Actual Value, 1932. | Increase(+) or Decrease(-) | Due to Higher (+) or Lower (-) Prices. | Due to Larger (+) or Smaller (-) Quantities. |       |   |       |
|-----------------------------|---------------------|--------------------------|---------------------|----------------------------|----------------------------------------|----------------------------------------------|-------|---|-------|
|                             | \$                  | \$                       | \$                  | \$                         | \$                                     | \$                                           |       |   |       |
| Salmon.....                 | 9,758               | 8,795                    | 8,038               | +                          | 1,720                                  | +                                            | 963   | + | 757   |
| Lobsters.....               | 3,524               | 3,679                    | 4,745               | -                          | 1,221                                  | -                                            | 155   | - | 1,066 |
| Cod.....                    | 2,599               | 2,396                    | 2,194               | +                          | 405                                    | +                                            | 203   | + | 202   |
| Herring.....                | 1,809               | 1,828                    | 1,473               | +                          | 336                                    | +                                            | 183   | + | 153   |
| Halibut.....                | 1,694               | 1,271                    | 1,228               | +                          | 466                                    | +                                            | 423   | + | 43    |
| Whitefish.....              | 1,136               | 1,310                    | 1,194               | -                          | 58                                     | -                                            | 174   | + | 116   |
| Haddock.....                | 832                 | 833                      | 1,115               | -                          | 283                                    | -                                            | 1     | - | 282   |
| Sardines.....               | 624                 | 833                      | 427                 | +                          | 197                                    | +                                            | 209   | + | 406   |
| Pickarel or doré.....       | 623                 | 841                      | 708                 | -                          | 85                                     | -                                            | 218   | + | 133   |
| Trout.....                  | 525                 | 566                      | 558                 | -                          | 33                                     | -                                            | 41    | + | 8     |
| Smelts.....                 | 496                 | 558                      | 691                 | -                          | 195                                    | -                                            | 62    | - | 133   |
| Mackerel.....               | 396                 | 409                      | 277                 | +                          | 119                                    | +                                            | 13    | + | 132   |
| Tullibee.....               | 265                 | 199                      | 224                 | +                          | 41                                     | +                                            | 66    | + | 25    |
| Blue pickerel.....          | 257                 | 181                      | 175                 | +                          | 82                                     | +                                            | 76    | + | 6     |
| Perch.....                  | 242                 | 183                      | 272                 | -                          | 30                                     | -                                            | 59    | - | 89    |
| Swordfish.....              | 203                 | 165                      | 100                 | +                          | 108                                    | +                                            | 43    | + | 65    |
| Ling cod.....               | 199                 | 161                      | 160                 | +                          | 39                                     | +                                            | 38    | + | 1     |
| Mixed fish.....             | 199                 | 247                      | 201                 | -                          | 2                                      | -                                            | 48    | + | 46    |
| Scallops.....               | 162                 | 142                      | 77                  | +                          | 85                                     | +                                            | 20    | + | 65    |
| Hake and cusk.....          | 149                 | 185                      | 134                 | +                          | 15                                     | -                                            | 36    | + | 51    |
| Eels.....                   | 149                 | 141                      | 110                 | +                          | 39                                     | +                                            | 8     | + | 31    |
| Oysters.....                | 127                 | 112                      | 115                 | +                          | 12                                     | +                                            | 15    | - | 3     |
| Saugers.....                | 116                 | 139                      | 105                 | +                          | 11                                     | -                                            | 23    | + | 34    |
| Pike.....                   | 112                 | 132                      | 133                 | -                          | 21                                     | -                                            | 20    | - | 1     |
| Whales.....                 | 110                 | 110                      | -                   | +                          | 110                                    | -                                            | -     | + | 110   |
| Clams and quahaugs.....     | 108                 | 129                      | 168                 | -                          | 60                                     | -                                            | 21    | - | 39    |
| Catfish.....                | 91                  | 95                       | 84                  | +                          | 7                                      | -                                            | 4     | + | 11    |
| Sturgeon.....               | 87                  | 107                      | 93                  | -                          | 6                                      | -                                            | 20    | + | 14    |
| Alewives.....               | 81                  | 84                       | 67                  | +                          | 14                                     | -                                            | 3     | + | 17    |
| Pilchards.....              | 77                  | 53                       | 384                 | -                          | 307                                    | +                                            | 24    | - | 331   |
| Carp.....                   | 64                  | 69                       | 67                  | -                          | 3                                      | -                                            | 5     | + | 2     |
| Shad.....                   | 63                  | 63                       | 54                  | +                          | 9                                      | -                                            | -     | - | 9     |
| Soles.....                  | 57                  | 53                       | 47                  | +                          | 10                                     | +                                            | 4     | + | 6     |
| Pollock.....                | 49                  | 44                       | 64                  | -                          | 15                                     | +                                            | 5     | - | 20    |
| Black cod.....              | 41                  | 37                       | 39                  | +                          | 2                                      | +                                            | 4     | - | 2     |
| Grayfish.....               | 37                  | 33                       | 12                  | +                          | 25                                     | +                                            | 4     | + | 21    |
| Seals.....                  | 35                  | 41                       | 30                  | +                          | 5                                      | -                                            | 6     | + | 11    |
| Crabs.....                  | 35                  | 28                       | 18                  | +                          | 17                                     | +                                            | 7     | + | 10    |
| Goldeyes.....               | 34                  | 35                       | 38                  | -                          | 4                                      | -                                            | 1     | - | 3     |
| Flounders, brill, etc.....  | 27                  | 26                       | 26                  | +                          | 1                                      | +                                            | 1     | - | -     |
| Shrimps.....                | 20                  | 18                       | 20                  | -                          | -                                      | +                                            | 2     | - | 2     |
| Fish meal, n.e.s.....       | 191                 | 177                      | 130                 | +                          | 61                                     | +                                            | 14    | + | 47    |
| Fish skins and bones.....   | 20                  | 23                       | 19                  | +                          | 1                                      | -                                            | 3     | + | 4     |
| Other fishery products..... | 130                 | 125                      | 143                 | -                          | 13                                     | +                                            | 5     | - | 18    |
| Totals.....                 | 27,558              | 26,454                   | 25,957              | +                          | 1,601                                  | +                                            | 1,104 | + | 497   |
| Increases per cent.....     | -                   | -                        | -                   | +                          | 6.2                                    | +                                            | 4.3   | + | 1.9   |

**Operations in 1933: Detailed Record of Production.**—The total value of the products of the Canadian fishing industry in the calendar year 1933 was \$27,558,053, as compared with \$25,957,109 in 1932 and \$30,517,306 in 1931. In Tables 6 and 7 will be found statements for the whole of Canada of each fish and fish product marketed in 1933, with comparative figures for the preceding year—Table 6 dealing with sea fish and Table 7 with products of the inland fisheries. In Tables 8 and 9 the numbers of the fish-canning and -curing establishments are shown, together with the materials used and values of the products.

## 6.—Quantities and Values of Sea Fish and Products Marketed, calendar years 1932 and 1933.

| Kind of Fish or Product.                  | 1932.     |            | 1933.     |            |
|-------------------------------------------|-----------|------------|-----------|------------|
|                                           | Quantity. | Value.     | Quantity. | Value.     |
| Cod, used fresh.....                      | cwt.      | \$ 106,286 | 82,203    | \$ 238,755 |
| “ fresh filets.....                       | “         | 271,857    | 49,633    | 322,177    |
| “ green-salted.....                       | “         | 196,518    | 150,489   | 377,038    |
| “ smoked filets.....                      | “         | 316,475    | 29,181    | 204,889    |
| “ smoked.....                             | “         | 185,132    | 20        | 100        |
| “ dried.....                              | “         | 20         | 283,390   | 1,254,416  |
| “ boneless.....                           | “         | 1,040,545  | 23,031    | 131,808    |
| “ canned.....                             | cases     | 21,088     | 1,195     | —          |
| “ livers.....                             | cwt.      | 239        | 4,677     | —          |
| “ liver oil, medicinal.....               | gal.      | 247        | 57,710    | 35,776     |
| “ oil.....                                | “         | 38,721     | 20,288    | 39,797     |
| Haddock, used fresh.....                  | cwt.      | 111,228    | 31,717    | 137,656    |
| “ fresh filets.....                       | “         | 119,889    | 403,547   | 288,844    |
| “ canned.....                             | cases     | 40,976     | 389,149   | 317,360    |
| “ smoked.....                             | cwt.      | 13,637     | 61,145    | 62,153     |
| “ smoked filets.....                      | “         | 28,558     | 201,015   | 131,243    |
| “ green-salted.....                       | “         | 3,467      | 32,503    | 14,127     |
| “ dried.....                              | “         | 3,377      | 6,203     | 1,020      |
| “ boneless.....                           | “         | 7,195      | 5,118     | 16,586     |
| Hake and cusk, used fresh.....            | “         | 203        | 1,069     | 696        |
| “ fresh filets.....                       | “         | 4,948      | 5,742     | 5,170      |
| “ green-salted.....                       | “         | 5,839      | 38,293    | 18,043     |
| “ canned.....                             | cases     | 16,619     | 24,743    | 43,899     |
| “ smoked filets.....                      | cwt.      | —          | —         | 1,897      |
| “ dried.....                              | “         | 5,057      | 25,861    | 21,428     |
| “ boneless.....                           | “         | 17,430     | 35,999    | 55,273     |
| “ oil.....                                | gal.      | 681        | 2,806     | 2,096      |
| Pollock, used fresh.....                  | cwt.      | 1,020      | 156       | 1,405      |
| “ fresh filets.....                       | “         | 3,582      | 6,825     | 8,333      |
| “ green-salted.....                       | “         | 2,140      | 12,921    | 455        |
| “ dried.....                              | “         | 8,753      | 8,960     | 1,935      |
| Whiting, used fresh.....                  | “         | 16,165     | 35,395    | 39,216     |
| Catfish, fresh.....                       | “         | 35         | 111       | 1,180      |
| “ fresh filets.....                       | “         | 607        | 2,120     | 5,802      |
| Halibut, used fresh.....                  | “         | 21         | 130       | 1,782      |
| “ smoked.....                             | “         | 193,805    | 1,197,711 | 1,644,997  |
| “ canned.....                             | cases     | 6          | 78        | 112        |
| “ livers.....                             | cwt.      | 40         | 320       | 42         |
| Flounders, brill, plaice, used fresh..... | “         | 2,221      | 29,571    | 315        |
| “ fresh filets.....                       | “         | 7,329      | 25,651    | 48,981     |
| “ smoked.....                             | “         | 73         | 788       | 24,486     |
| “ smoked (boneless).....                  | “         | 3          | 21        | 2,980      |
| Skate, used fresh.....                    | “         | 1,928      | 6,326     | 8          |
| Soles, used fresh.....                    | “         | 8,619      | 43,176    | 5,883      |
| “ fresh filets.....                       | “         | 349        | 4,188     | 42,707     |
| “ smoked filets.....                      | “         | 6          | 60        | 14,194     |
| Herring, used fresh.....                  | “         | 117,782    | 183,819   | —          |
| “ canned (round).....                     | cases     | 20,154     | 70,539    | 189,879    |
| “ canned (kippered).....                  | “         | 5,077      | 9,109     | 61,107     |
| “ smoked (round).....                     | cwt.      | 47,006     | 70,918    | 20,369     |
| “ smoked (boneless).....                  | “         | 604        | 3,182     | 8,730      |
| “ kippered.....                           | “         | 6,292      | 43,749    | 52,320     |
| “ dry-salted.....                         | “         | 269,420    | 213,521   | 860        |
| “ pickled.....                            | brl.      | 16,114     | 69,294    | 7,907      |
| “ used as bait.....                       | “         | 184,580    | 278,309   | 513,024    |
| “ fertilizer.....                         | “         | 113,563    | 79,639    | 509,195    |
| “ oil.....                                | gal.      | 209,525    | 24,826    | 30,461     |
| “ meal.....                               | ton       | 6,745      | 223,486   | 165,392    |
| “ scales.....                             | cwt.      | 324        | 972       | 295,133    |
| Mackerel, used fresh.....                 | “         | 50,097     | 107,587   | 85,822     |
| “ fresh filets.....                       | “         | —          | —         | 138,065    |
| “ canned.....                             | cases     | 709        | 3,921     | 98         |
| “ smoked.....                             | cwt.      | 4          | 19        | 569        |
| “ pickled.....                            | brl.      | 39,247     | 152,827   | 125        |
| “ fillets (salted).....                   | “         | 278        | 3,417     | 210,139    |
| “ used as bait.....                       | “         | 4,583      | 9,176     | 2,661      |
| Sardines, canned.....                     | cases     | 113,197    | 395,531   | 6,086      |
| “ sold fresh and salted.....              | brl.      | 38,144     | 31,383    | 180,597    |
| Pilchards, used fresh.....                | cwt.      | 3,940      | 1,098     | 90,352     |
| “ canned.....                             | cases     | 4,622      | 11,093    | 2,946      |
| “ used as bait.....                       | brl.      | 1,603      | 2,891     | 14         |
| “ oil.....                                | gal.      | 1,315,864  | 166,497   | 8,838      |
| “ meal.....                               | ton       | 8,842      | 202,341   | 20         |
| Alewives, used fresh.....                 | cwt.      | 25,664     | 29,768    | 275,879    |
| “ fertilizer.....                         | brl.      | 1,270      | 630       | 1,108      |
| “ salted.....                             | “         | 9,616      | 29,525    | 32,331     |
| “ smoked.....                             | cwt.      | 2,037      | 5,930     | 3,125      |
|                                           |           |            |           | 49,792     |
|                                           |           |            |           | 4,257      |

**6.—Quantities and Values of Sea Fish and Products Marketed, calendar years  
1932 and 1933—concluded.**

| Kind of Fish or Product.                  | 1932.     |           | 1933.      |            |
|-------------------------------------------|-----------|-----------|------------|------------|
|                                           | Quantity. | Value.    | Quantity.  | Value.     |
| Alewives, used as bait.....               | brl.      | 1,554     | \$ 2,662   | —          |
| Bass, used fresh.....                     | cwt.      | 234       | 2,062      | 138        |
| Perch, used fresh.....                    | "         | 759       | 4,707      | 578        |
| Salmon, used fresh.....                   | "         | 218,521   | 1,309,548  | 254,867    |
| " canned.....                             | cases     | 1,082,325 | 6,366,096  | 1,267,630  |
| " smoked.....                             | cwt.      | 324       | 4,185      | 464        |
| " dry-salted.....                         | "         | 127,289   | 172,104    | 82,875     |
| " mild cured.....                         | "         | 12,141    | 138,050    | 18,262     |
| " pickled.....                            | "         | 1,011     | 5,753      | 759        |
| " used as bait.....                       | "         | 373       | 740        | 199        |
| " roe.....                                | "         | 3,202     | 4,016      | 5,315      |
| " meal.....                               | ton       | 149       | 3,372      | 719        |
| Shad, used fresh.....                     | gal.      | 10,370    | 767        | 63,830     |
| " salted.....                             | cwt.      | 5,163     | 27,397     | 7,780      |
| Smelts, used fresh.....                   | brl.      | 678       | 6,576      | 644        |
| Sturgeon, used fresh.....                 | cwt.      | 95,304    | 687,242    | 76,671     |
| Trout, used fresh.....                    | "         | 300       | 4,132      | 540        |
| Black cod, used fresh.....                | "         | 126       | 1,660      | 198        |
| " dried.....                              | "         | 3,363     | 17,776     | 3,657      |
| " green-salted.....                       | "         | —         | —          | 72         |
| " smoked.....                             | "         | 239       | 1,860      | 62         |
| " livers.....                             | "         | 1,282     | 19,118     | 1,081      |
| Ling cod, used fresh.....                 | "         | —         | —          | 219        |
| " smoked.....                             | "         | 39,273    | 155,727    | 40,182     |
| " smoked filets.....                      | "         | 147       | 1,845      | 50         |
| " livers.....                             | "         | 131       | 1,962      | —          |
| Red and rock cod, used fresh.....         | "         | —         | —          | 262        |
| " smoked.....                             | "         | 2,736     | 9,333      | 1,340      |
| " livers.....                             | "         | —         | —          | 21         |
| Tuna, used fresh.....                     | "         | —         | —          | 5          |
| " canned.....                             | cases     | 2,642     | 9,329      | 4,278      |
| Caplin, used fresh.....                   | brl.      | —         | —          | 212        |
| Eels, used fresh.....                     | cwt.      | 3,488     | 5,101      | 6,650      |
| Octopus, used fresh.....                  | "         | 2,169     | 14,019     | 2,454      |
| Oulachons, used fresh.....                | "         | 309       | 1,336      | 278        |
| Squid, used as bait.....                  | brl.      | 184       | 470        | 153        |
| Swordfish, used fresh.....                | cwt.      | 1,301     | 3,974      | 3,420      |
| Tom cod, used fresh.....                  | cwt.      | 10,359    | 98,585     | 17,137     |
| Mixed fish, used fresh.....               | "         | 10,592    | 8,034      | 7,211      |
| Clams and quahaugs, used fresh.....       | brl.      | 9,297     | 45,394     | 9,559      |
| " canned.....                             | cases     | 28,004    | 42,469     | 17,672     |
| Cockles, used fresh.....                  | cwt.      | 21,935    | 126,382    | 20,609     |
| Crabs, used fresh.....                    | "         | —         | —          | 49         |
| " canned.....                             | cases     | 3,152     | 16,026     | 3,941      |
| Lobsters, in shell.....                   | cwt.      | 251       | 1,606      | 999        |
| " meat.....                               | cwt.      | 144,483   | 1,948,143  | 123,925    |
| " canned.....                             | cases     | 1,279     | 60,524     | 1,181      |
| " tomalley.....                           | cases     | 166,799   | 2,707,420  | 122,062    |
| Mussels, fresh.....                       | cwt.      | 3,763     | 29,224     | 3,725      |
| Oysters, used fresh.....                  | brl.      | 116       | 231        | 69         |
| Scallops, shelled.....                    | gal.      | 23,041    | 115,102    | 22,424     |
| " canned.....                             | cases     | 46,452    | 76,401     | 86,280     |
| Shrimps, used fresh.....                  | cwt.      | 74        | 740        | 16         |
| " canned.....                             | cases     | 1,109     | 14,055     | 1,247      |
| Winkles, used fresh.....                  | cwt.      | 209       | 5,933      | 35         |
| Dulse, dried.....                         | "         | 378       | 645        | 654        |
| Tongues and sounds, pickled or dried..... | "         | 822       | 5,183      | 478        |
| Seal skins, fur.....                      | No.       | 580       | 2,332      | 862        |
| " hair.....                               | "         | 1,787     | 4,885      | 1,984      |
| Porpoise skins.....                       | "         | 18,238    | 16,426     | 18,501     |
| Whalebone meal.....                       | ton       | 195       | 975        | 232        |
| Whale fertilizer.....                     | "         | —         | —          | 249        |
| Seal oil.....                             | gal.      | —         | —          | 223        |
| Porpoise oil.....                         | "         | 50,622    | 8,703      | 63,545     |
| Whale oil.....                            | "         | 6,135     | 975        | 7,630      |
| Grayfish oil.....                         | "         | —         | —          | 509,310    |
| Fish oil, n.e.s.....                      | "         | 35,222    | 4,666      | 117,645    |
| Grayfish meal.....                        | ton       | 5,107     | 1,035      | 9,821      |
| Fish meal, n.e.s.....                     | "         | 264       | 7,018      | 786        |
| Fish fertilizer.....                      | "         | 3,050     | 129,624    | 4,157      |
| Fish skins and bones.....                 | cwt.      | 4         | 31         | 14         |
| Fish offal.....                           | ton       | 11,811    | 19,168     | 14,342     |
| Other products.....                       | "         | 1,147     | 1,673      | 572        |
| Totals.....                               | —         | —         | 21,763,087 | —          |
|                                           |           |           |            | 23,494,695 |



## 7.—Quantities and Values of Inland Fish Marketed, calendar years 1932 and 1933.

| Kind of Fish or Product.     | 1932.      |                  | 1933.     |                  |
|------------------------------|------------|------------------|-----------|------------------|
|                              | Quantity.  | Value.           | Quantity. | Value.           |
|                              |            | \$               |           | \$               |
| Alewives, fresh.....         | cwt. 234   | 450              | 420       | 820              |
| “ salted.....                | brl. 43    | 202              | 15        | 99               |
| Bass, fresh.....             | cwt. 727   | 7,006            | 676       | 6,750            |
| Carp, fresh.....             | “ 18,061   | 66,957           | 18,545    | 64,374           |
| Catfish, fresh.....          | “ 10,575   | 81,815           | 10,714    | 83,428           |
| Eels, fresh.....             | “ 19,307   | 96,298           | 24,950    | 133,720          |
| Goideyes, fresh.....         | “ 81       | 810              | 191       | 1,895            |
| “ smoked.....                | “ 1,937    | 36,881           | 1,611     | 31,728           |
| Herring, fresh.....          | “ 36,692   | 201,925          | 34,180    | 158,957          |
| Ling.....                    | “ 1,394    | 1,841            | 1,692     | 2,675            |
| Maskinonge, fresh.....       | “ 775      | 19,036           | 907       | 9,479            |
| Mixed fish, fresh.....       | “ 33,496   | 155,559          | 43,060    | 151,677          |
| Mulletts, fresh.....         | “ 4,000    | 7,925            | 2,362     | 4,321            |
| Perch, fresh.....            | “ 60,213   | 267,403          | 40,367    | 238,660          |
| Pickerei or doré, fresh..... | “ 89,498   | 707,957          | 106,272   | 623,343          |
| Pickerei, blue, fresh.....   | “ 40,610   | 174,623          | 42,164    | 257,201          |
| Pike, fresh.....             | “ 41,400   | 133,250          | 41,146    | 112,312          |
| Salmon, fresh.....           | “ 2,247    | 33,273           | 2,364     | 33,830           |
| Saugers, fresh.....          | “ 18,942   | 105,404          | 24,914    | 115,635          |
| Shad, fresh.....             | “ 3,024    | 16,715           | 3,074     | 16,299           |
| “ salted.....                | brl. 40    | 3,520            | 225       | 2,250            |
| “ smoked.....                | “ 18       | 360              | 20        | 340              |
| Smelts, fresh.....           | cwt. 859   | 3,722            | 1,028     | 4,530            |
| Sturgeon, fresh.....         | “ 5,507    | 85,781           | 6,188     | 78,516           |
| “ caviar.....                | lb. 2,779  | 2,779            | 2,411     | 2,411            |
| Suckers.....                 | cwt. 6,673 | 8,790            | 1,969     | 3,623            |
| Trout, fresh.....            | “ 50,072   | 556,328          | 50,734    | 523,221          |
| Tullibee, fresh.....         | “ 47,564   | 223,764          | 40,677    | 259,162          |
| “ smoked.....                | “ 50       | 374              | 974       | 6,042            |
| Whitefish, fresh.....        | “ 138,449  | 1,193,274        | 152,102   | 1,136,060        |
| “ smoked.....                | “ 18       | 360              | 20        | 340              |
| <b>Totals.....</b>           | <b>—</b>   | <b>4,194,022</b> | <b>—</b>  | <b>4,063,358</b> |

## 8.—Numbers of Fish-Canning and -Curing Establishments, by Provinces, 1932 and 1933.

| Kind of Establishment.                | P.E.I.    | N.S.       | N.B.       | Que.       | B.C.      | Total for Canada. |
|---------------------------------------|-----------|------------|------------|------------|-----------|-------------------|
| 1932.                                 | No.       | No.        | No.        | No.        | No.       | No.               |
| Lobster canneries.....                | 91        | 107        | 108        | 51         | —         | 357               |
| Salmon canneries.....                 | —         | 1          | —          | 14         | 44        | 59                |
| Clam canneries.....                   | 2         | 3          | 9          | —          | 2         | 16                |
| Sardine and other fish canneries..... | —         | 5          | 3          | —          | 2         | 10                |
| Fish-curing establishments.....       | 5         | 65         | 34         | 25         | 27        | 156               |
| Freezing plants.....                  | 1         | 5          | 1          | 4          | 2         | 13                |
| Reduction plants.....                 | —         | 4          | 2          | —          | 12        | 18                |
| <b>Totals.....</b>                    | <b>99</b> | <b>190</b> | <b>157</b> | <b>94</b>  | <b>89</b> | <b>629</b>        |
| 1933.                                 | No.       | No.        | No.        | No.        | No.       | No.               |
| Lobster canneries.....                | 91        | 88         | 99         | 51         | —         | 329               |
| Salmon canneries.....                 | —         | 1          | —          | 22         | 48        | 71                |
| Clam canneries.....                   | —         | 2          | 5          | —          | 1         | 8                 |
| Sardine and other fish canneries..... | —         | 8          | 4          | —          | 3         | 15                |
| Fish-curing establishments.....       | 2         | 71         | 33         | 32         | 32        | 170               |
| Freezing plants.....                  | —         | 3          | 3          | 4          | 1         | 11                |
| Reduction plants.....                 | —         | 4          | 1          | —          | 11        | 16                |
| <b>Totals.....</b>                    | <b>93</b> | <b>177</b> | <b>145</b> | <b>109</b> | <b>96</b> | <b>620</b>        |

**9.—Values of Materials Used and of Products of Fish-Canning and -Curing Establishments, 1929-33.**

| Material and Product.                         | 1929.             | 1930.             | 1931.             | 1932.             | 1933.             |
|-----------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>Materials used—</b>                        | <b>\$</b>         | <b>\$</b>         | <b>\$</b>         | <b>\$</b>         | <b>\$</b>         |
| Fish.....                                     | 17,061,702        | 15,939,137        | 9,137,505         | 7,708,713         | 8,178,543         |
| Salt.....                                     | 413,722           | 348,201           | 351,781           | 170,385           | 216,618           |
| Containers.....                               | 3,802,791         | 4,569,026         | 2,220,770         | 2,190,935         | 2,321,918         |
| Other.....                                    | 218,644           | 225,125           | 210,778           | 193,598           | 243,210           |
| <b>Totals.....</b>                            | <b>21,496,859</b> | <b>21,081,489</b> | <b>11,920,834</b> | <b>10,263,631</b> | <b>10,960,289</b> |
| <b>Products—</b>                              |                   |                   |                   |                   |                   |
| Fish marketed for consumption, fresh..        | 9,057,253         | 7,639,557         | 5,168,401         | 4,243,614         | 4,337,130         |
| Fish canned, cured or otherwise prepared..... | 25,909,007        | 25,333,751        | 13,658,492        | 12,440,511        | 13,043,193        |
| <b>Totals.....</b>                            | <b>34,966,260</b> | <b>32,973,308</b> | <b>18,826,893</b> | <b>16,684,125</b> | <b>17,380,323</b> |

**Capital and Employees.**—In 1933 capital investments in the fisheries were as follows: (a) in vessels, boats, nets, weirs, traps, wharves, ice-houses, etc., used in the primary operations of capturing the fish, \$25,380,082, of which \$21,093,282 was invested in the sea fisheries and \$4,286,800 in the inland fisheries; (b) in fish-canning and -curing establishments (land, buildings, machinery, supplies on hand, cash and operating accounts), \$15,532,775—grand total \$40,912,857. The number of employees engaged in the primary operations of fishing was 65,506 in 1933, and in canning and curing establishments, 14,042, a total of 79,548. The total salaries and wages bill in canneries and fish-curing establishments was \$3,024,068. Tables 10 and 11, herewith, show the items included in the above totals, with comparative figures for 1932, while Table 12 analyses the salaries, wages and earnings of the employees in canneries, etc.

**10.—Numbers and Capital Values of Fishing Vessels, Boats, Nets, Traps, etc., Used in the Fisheries of Canada, and of Establishments Processing the Products, 1932 and 1933.**

| Equipment.                              | 1932.     |                   | 1933.     |                   |
|-----------------------------------------|-----------|-------------------|-----------|-------------------|
|                                         | Number.   | Value.            | Number.   | Value.            |
| <b>Sea Fisheries—</b>                   |           | <b>\$</b>         |           | <b>\$</b>         |
| Steam trawlers.....                     | 6         | 225,000           | 6         | 225,000           |
| Steam fishing vessels.....              | 2         | 37,000            | 5         | 102,000           |
| Sailing and gasoline vessels.....       | 932       | 3,711,090         | 871       | 3,304,610         |
| Boats (sail and row).....               | 15,517    | 533,259           | 15,395    | 498,444           |
| Boats (gasoline).....                   | 18,046    | 6,982,102         | 18,521    | 7,106,943         |
| Carrying smacks and scows.....          | 668       | 553,380           | 533       | 1,777,775         |
| Gill nets.....                          | 70,606    | 955,722           | 70,560    | 902,468           |
| Salmon drift nets.....                  | 12,198    | 1,010,420         | 12,414    | 1,071,666         |
| Salmon drag nets.....                   | 42        | 15,840            | 41        | 17,430            |
| Salmon trap nets.....                   | 786       | 331,122           | 1,094     | 421,773           |
| Trap nets, other.....                   | 698       | 320,101           | 522       | 241,590           |
| Oulachon nets.....                      | 21        | 630               | 24        | 720               |
| Smelt nets.....                         | 16,623    | 393,567           | 16,220    | 357,461           |
| Pound nets.....                         | 78        | 12,400            | 89        | 14,425            |
| Weirs.....                              | 304       | 207,087           | 328       | 247,958           |
| Salmon purse seines.....                | 149       | 239,150           | 203       | 307,950           |
| Seines, other.....                      | 754       | 234,200           | 673       | 237,940           |
| Inshore drags.....                      | 36        | 4,425             | 28        | 3,575             |
| Tubs of trawl.....                      | 29,724    | 242,244           | 20,056    | 249,388           |
| Skates of gear.....                     | 2,792     | 36,321            | 2,481     | 43,170            |
| Hand lines.....                         | 69,469    | 147,448           | 69,025    | 143,911           |
| Crab traps.....                         | 6,507     | 22,955            | 4,177     | 14,780            |
| Eel traps.....                          | 455       | 1,137             | 474       | 857               |
| Lobster traps.....                      | 1,833,689 | 2,133,144         | 1,767,937 | 2,023,178         |
| Lobster pounds.....                     | 56        | 74,315            | 35        | 62,880            |
| Oyster rakes.....                       | 1,818     | 6,029             | 1,615     | 5,341             |
| Scallop drags.....                      | 393       | 10,241            | 891       | 20,127            |
| Quahaug rakes.....                      | 965       | 916               | 87        | 298               |
| Oyster plant and equipment.....         | 1         | 21,208            | 1         | 21,208            |
| Fishing piers and wharves.....          | 1,772     | 782,314           | 1,721     | 691,243           |
| Freezers and ice-houses.....            | 685       | 243,430           | 598       | 234,285           |
| Small fish and smoke-houses.....        | 7,283     | 917,148           | 7,215     | 738,463           |
| Other gear.....                         | —         | 500               | —         | 4,425             |
| <b>Total Values, Sea Fisheries.....</b> | <b>—</b>  | <b>20,405,845</b> | <b>—</b>  | <b>21,093,282</b> |

**10.—Numbers and Capital Values of Fishing Vessels, Boats, Nets, Traps, etc., Used in the Fisheries of Canada, and of Establishments Processing the Products, 1932 and 1933—concluded.**

| Equipment or Kind of Establishment.                            | 1932.      |                   | 1933.      |                   |
|----------------------------------------------------------------|------------|-------------------|------------|-------------------|
|                                                                | Number.    | Value.            | Number.    | Value.            |
|                                                                |            | \$                |            | \$                |
| <b>Inland Fisheries—</b>                                       |            |                   |            |                   |
| Steam vessels or tugs.....                                     | 120        | 807,619           | 114        | 769,546           |
| Boats (sail and row).....                                      | 3,099      | 103,022           | 3,266      | 112,251           |
| Boats (gasolene).....                                          | 1,327      | 783,679           | 1,339      | 766,920           |
| Scows.....                                                     | 2          | 10,250            | 6          | 13,718            |
| Gill nets.....                                                 | —          | 1,290,028         | —          | 1,246,743         |
| Seines.....                                                    | 203        | 24,106            | 175        | 19,834            |
| Pound nets.....                                                | 1,076      | 535,430           | 1,075      | 540,114           |
| Hoop nets.....                                                 | 815        | 30,482            | 772        | 22,133            |
| Dip or roll nets.....                                          | 127        | 634               | 70         | 339               |
| Lines.....                                                     | 2,520      | 19,230            | 2,336      | 13,567            |
| Weirs.....                                                     | 1,136      | 113,394           | 1,226      | 148,713           |
| Eel traps.....                                                 | 60         | 120               | 60         | 120               |
| Fish wheels.....                                               | 9          | 1,350             | 9          | 1,200             |
| Spears.....                                                    | 55         | 341               | 83         | 509               |
| Fishing piers and wharves.....                                 | 453        | 155,693           | 482        | 149,085           |
| Freezers and ice-houses.....                                   | 814        | 408,585           | 834        | 429,458           |
| Small fish and smoke-houses.....                               | 175        | 56,258            | 130        | 52,550            |
| <b>Total Values, Inland Fisheries.....</b>                     | <b>—</b>   | <b>4,340,221</b>  | <b>—</b>   | <b>4,286,800</b>  |
| <b>Fish-Canning and -Curing Establishments<sup>1</sup>—</b>    |            |                   |            |                   |
| Lobster canneries.....                                         | 357        | 1,503,599         | 329        | 1,277,804         |
| Salmon canneries.....                                          | 59         | 7,395,391         | 71         | 7,554,226         |
| Clam canneries.....                                            | 16         | 95,922            | 8          | 65,731            |
| Sardine and other fish canneries.....                          | 10         | 1,434,842         | 15         | 1,412,827         |
| Fish-curing establishments.....                                | 156        | 4,770,648         | 170        | 4,227,815         |
| Freezing plants.....                                           | 13         | 302,580           | 11         | 271,761           |
| Reduction plants.....                                          | 18         | 1,540,230         | 16         | 722,611           |
| <b>Totals for Fish-Canning and -Curing Establishments.....</b> | <b>629</b> | <b>17,043,212</b> | <b>620</b> | <b>15,532,775</b> |
| <b>Grand Totals, Capital Invested in Fisheries.....</b>        | <b>—</b>   | <b>41,789,278</b> | <b>—</b>   | <b>40,912,857</b> |

<sup>1</sup> Comprises values of land, buildings and machinery, products and supplies on hand, accounts and bills receivable, and cash.

**11.—Numbers of Persons Employed in the Fisheries of Canada and in Processing Establishments Connected Therewith, 1931-33.**

| Employed in—               | Sea Fisheries.            |               |               | Inland Fisheries. |               |               |
|----------------------------|---------------------------|---------------|---------------|-------------------|---------------|---------------|
|                            | 1931.                     | 1932.         | 1933.         | 1931.             | 1932.         | 1933.         |
|                            | No.                       | No.           | No.           | No.               | No.           | No.           |
| Steam trawlers.....        | 120 <sup>1</sup>          | 120           | 120           | —                 | —             | —             |
| Vessels.....               | 4,929                     | 4,579         | 4,509         | 504               | 471           | 468           |
| Boats.....                 | 42,172                    | 45,385        | 46,240        | 6,921             | 6,957         | 7,461         |
| Carrying smacks.....       | 690                       | 613           | 865           | 20                | 4             | 9             |
| Fishing, not in boats..... | 2,764                     | 3,214         | 3,011         | 3,691             | 3,141         | 2,823         |
| <b>Totals.....</b>         | <b>50,675<sup>1</sup></b> | <b>53,911</b> | <b>54,745</b> | <b>11,136</b>     | <b>10,573</b> | <b>10,761</b> |

| Fish-Canning and -Curing Establishments. |                           |              |                           |               |              |               |               |              |               |
|------------------------------------------|---------------------------|--------------|---------------------------|---------------|--------------|---------------|---------------|--------------|---------------|
| Employed in—                             | 1931.                     |              |                           | 1932.         |              |               | 1933.         |              |               |
|                                          | Male.                     | Female.      | Total.                    | Male.         | Female.      | Total.        | Male.         | Female.      | Total.        |
|                                          | No.                       | No.          | No.                       | No.           | No.          | No.           | No.           | No.          | No.           |
| Lobster canneries.....                   | 2,617                     | 3,345        | 5,962                     | 2,830         | 3,893        | 6,723         | 2,649         | 3,513        | 6,162         |
| Salmon canneries.....                    | 1,644                     | 1,509        | 3,153                     | 2,038         | 1,856        | 3,894         | 2,586         | 2,187        | 4,773         |
| Clam canneries.....                      | 69                        | 173          | 242                       | 66            | 144          | 210           | 31            | 64           | 95            |
| Sardine and other fish canneries.....    | 202                       | 179          | 381                       | 185           | 152          | 337           | 202           | 285          | 487           |
| Fish-curing establishments.....          | 2,756                     | 352          | 3,108                     | 2,004         | 235          | 2,239         | 2,054         | 126          | 2,180         |
| Freezing plants.....                     | —                         | —            | —                         | 75            | 6            | 81            | 103           | 3            | 106           |
| Reduction plants.....                    | 219                       | 6            | 225                       | 235           | 5            | 240           | 229           | 10           | 239           |
| <b>Totals.....</b>                       | <b>7,507</b>              | <b>5,564</b> | <b>13,071</b>             | <b>7,433</b>  | <b>6,291</b> | <b>13,724</b> | <b>7,854</b>  | <b>6,188</b> | <b>14,042</b> |
| <b>Grand Totals, All Fisheries.....</b>  | <b>69,318<sup>1</sup></b> | <b>5,564</b> | <b>74,882<sup>1</sup></b> | <b>71,917</b> | <b>6,291</b> | <b>78,208</b> | <b>73,360</b> | <b>6,188</b> | <b>79,548</b> |

<sup>1</sup> Revised since the publication of the 1933 Year Book.

### 12.—Employees and Salaries and Wages in Fish-Canning and -Curing Establishments, 1920-33.

| Year.     | On Salaries. |         | On Wages. |           | Contract and Piece-Workers. |           | Totals. |           |
|-----------|--------------|---------|-----------|-----------|-----------------------------|-----------|---------|-----------|
|           | No.          | \$      | No.       | \$        | No.                         | \$        | No.     | \$        |
| 1920..... | 651          | 759,176 | 13,137    | 3,180,701 | 4,711                       | 916,413   | 18,499  | 4,856,290 |
| 1921..... | 487          | 551,330 | 10,534    | 2,023,040 | 3,083                       | 399,016   | 14,104  | 2,973,386 |
| 1922..... | 614          | 682,535 | 11,848    | 2,358,780 | 4,115                       | 600,415   | 16,577  | 3,641,730 |
| 1923..... | 585          | 681,101 | 11,265    | 2,443,971 | 3,597                       | 644,842   | 15,447  | 3,769,914 |
| 1924..... | 574          | 755,631 | 10,583    | 2,588,717 | 4,379                       | 890,413   | 15,536  | 4,234,761 |
| 1925..... | 632          | 806,418 | 10,687    | 3,166,045 | 4,953                       | 998,704   | 16,272  | 4,971,167 |
| 1926..... | 546          | 733,760 | 11,579    | 3,807,533 | 5,283                       | 1,081,544 | 17,408  | 5,622,837 |
| 1927..... | 639          | 871,211 | 11,843    | 3,769,791 | 4,715                       | 732,949   | 16,697  | 5,373,951 |
| 1928..... | 630          | 853,800 | 10,570    | 3,539,070 | 4,225                       | 868,226   | 15,434  | 5,261,096 |
| 1929..... | 660          | 951,669 | 11,122    | 3,668,802 | 4,585                       | 791,384   | 16,367  | 5,411,855 |
| 1930..... | 501          | 918,952 | 9,967     | 3,383,902 | 5,164                       | 1,023,609 | 15,722  | 5,326,463 |
| 1931..... | 540          | 692,270 | 9,577     | 2,069,153 | 2,964                       | 421,452   | 13,071  | 3,182,875 |
| 1932..... | 486          | 602,760 | 9,799     | 1,741,404 | 3,439                       | 477,714   | 13,724  | 2,821,878 |
| 1933..... | 473          | 558,500 | 9,453     | 1,728,885 | 4,116                       | 736,683   | 14,042  | 3,024,068 |

**Trade.**—For reasons already noted, the domestic consumption of fish is relatively small in Canada, and the trade depends largely upon foreign markets. From 60 to 70 p.c. of the annual catch is an average export. In the calendar year 1933 fishery products worth \$8,796,015 went to the United States and \$4,384,007 to the United Kingdom. The most important single export is canned salmon (to Great Britain and European markets), followed closely by canned lobster, while cod, dry-salted (to the West Indies, South America, etc.) is third in order of value. For fresh fish, especially whitefish and lobsters, the United States is the chief market. Canadian imports of fishery products in the calendar year 1933 amounted to \$1,694,325. A general review of the import and export trade in fish for 33 years past is given in Table 13, by fiscal years, while Table 14 gives a comparative record of exports, by countries, during the calendar years 1932 and 1933. Table 15 shows the leading items of export for the calendar years 1931-33. For a complete analysis of imports and exports, as well as of production, see the annual report "Fisheries Statistics", issued by the Dominion Bureau of Statistics.

### 13.—Values of Exports and Imports of Fish and Fish Products, fiscal years 1902-34.

**NOTE.**—In this table "Exports" include seal skins and fish oils, and "Imports" include turtles, whale-bone, shells and their products, seal skins, fish oils and ambergris, in addition to fishery products as shown in Tables 12 and 13 of Chapter XVI of External Trade, in this volume.

| Year.     | Exports,<br>Fisheries,<br>Domestic. | Imports of Fish for<br>Home Consumption. |           | Year.     | Exports,<br>Fisheries,<br>Domestic. | Imports of Fish for<br>Home Consumption. |                        |
|-----------|-------------------------------------|------------------------------------------|-----------|-----------|-------------------------------------|------------------------------------------|------------------------|
|           |                                     | Dutiable.                                | Free.     |           |                                     | Dutiable.                                | Free.                  |
|           | \$                                  | \$                                       | \$        |           | \$                                  | \$                                       | \$                     |
| 1902..... | 14,143,294                          | 620,706                                  | 525,459   | 1919..... | 37,137,072                          | 1,054,848                                | 2,128,970              |
| 1903..... | 11,800,184                          | 659,717                                  | 743,703   | 1920..... | 42,227,996                          | 2,605,379                                | 1,446,493              |
| 1904..... | 10,759,029                          | 734,800                                  | 850,945   | 1921..... | 33,615,119                          | 2,416,152                                | 1,876,303              |
| 1905..... | 11,114,318                          | 752,558                                  | 751,402   | 1922..... | 29,578,392                          | 2,172,850                                | 996,763                |
| 1906..... | 16,025,840                          | 814,540                                  | 1,234,563 | 1923..... | 27,816,935                          | 2,066,300                                | 899,531                |
| 1907..... | 10,362,142                          | 735,045                                  | 924,046   | 1924..... | 30,925,769                          | 1,878,336                                | 648,696                |
| 1908..... | 13,867,367                          | 838,037                                  | 1,103,649 | 1925..... | 33,967,009                          | 2,064,222                                | 997,659                |
| 1909..... | 13,319,664                          | 784,176                                  | 925,173   | 1926..... | 37,487,517                          | 1,949,269                                | 641,240                |
| 1910..... | 15,663,162                          | 952,522                                  | 820,183   | 1927..... | 36,365,454                          | 2,347,890                                | 909,188                |
| 1911..... | 15,675,544                          | 1,175,072                                | 820,019   | 1928..... | 35,660,287                          | 2,595,591                                | 1,181,067              |
| 1912..... | 16,704,678                          | 1,261,096                                | 1,148,522 | 1929..... | 37,962,929                          | 2,956,182                                | 1,218,386              |
| 1913..... | 16,336,721                          | 1,608,663                                | 916,923   | 1930..... | 37,185,185                          | 3,078,385 <sup>2</sup>                   | 1,100,335 <sup>2</sup> |
| 1914..... | 20,623,560                          | 1,558,663                                | 773,109   | 1931..... | 29,693,978                          | 2,393,870 <sup>2</sup>                   | 988,689 <sup>2</sup>   |
| 1915..... | 19,687,068                          | 1,155,186                                | 701,112   | 1932..... | 24,854,088                          | 1,726,622 <sup>2</sup>                   | 701,632 <sup>2</sup>   |
| 1916..... | 22,377,977                          | 895,371                                  | 695,702   | 1933..... | 17,425,228                          | 1,281,466                                | 425,138                |
| 1917..... | 24,889,253                          | 1,347,511                                | 1,128,768 | 1934..... | 20,972,444                          | 1,278,497                                | 539,456                |
| 1918..... | 32,602,151                          | 1,039,585                                | 1,884,041 |           |                                     |                                          |                        |

<sup>1</sup>Nine months. <sup>2</sup>Revised since the publication of the 1933 Year Book.



**14.—Exports of the Fisheries, the Produce of Canada, by Principal Countries, calendar years 1932 and 1933.**

| Exports to—                               | 1932.     | 1933.     | Exports to—                                  | 1932.             | 1933.             |
|-------------------------------------------|-----------|-----------|----------------------------------------------|-------------------|-------------------|
| British Empire.                           | \$        | \$        | Foreign Countries.                           | \$                | \$                |
| United Kingdom.....                       | 4,220,655 | 4,384,007 | Belgium.....                                 | 174,394           | 187,391           |
| Africa, British South.....                | 84,549    | 181,288   | Brazil.....                                  | 55,992            | 49,392            |
| Africa, British West.....                 | 2,194     | 6,703     | China.....                                   | 164,505           | 179,813           |
| Bermuda.....                              | 37,619    | 30,536    | Cuba.....                                    | 99,851            | 93,262            |
| British India.....                        | 27,311    | 20,298    | Denmark.....                                 | 47,491            | 69,827            |
| Ceylon.....                               | 5,238     | 7,129     | France.....                                  | 436,078           | 1,371,157         |
| Straits Settlements.....                  | 3,743     | 4,059     | Germany.....                                 | 238,675           | 352,859           |
| British Guiana.....                       | 56,824    | 81,225    | Haiti.....                                   | 35,697            | 27,306            |
| Barbados.....                             | 88,617    | 76,736    | Italy.....                                   | 392,417           | 548,758           |
| Jamaica.....                              | 526,794   | 397,146   | Japan.....                                   | 478,577           | 603,297           |
| Trinidad and Tobago.....                  | 184,309   | 248,464   | Netherlands.....                             | 269,915           | 73,814            |
| Hong Kong.....                            | 138,969   | 58,384    | Dutch Guiana.....                            | 35,972            | 25,722            |
| Newfoundland.....                         | 79,912    | 40,636    | Norway.....                                  | 7,158             | 24,810            |
| Australia.....                            | 1,049,727 | 1,234,632 | Portugal.....                                | 7,907             | 58,937            |
| Fiji.....                                 | 37,064    | 55,794    | Portuguese Africa.....                       | 21,861            | 22,582            |
| New Zealand.....                          | 213,377   | 175,138   | Santo Domingo.....                           | 131,869           | 137,805           |
| Palestine.....                            | 3,839     | 6,907     | Sweden.....                                  | 220,068           | 176,214           |
|                                           |           |           | United States.....                           | 8,650,853         | 8,796,015         |
|                                           |           |           | Philippine Islands.....                      | 56,257            | 42,392            |
|                                           |           |           | Puerto Rico.....                             | 287,163           | 240,474           |
| Totals, British Empire <sup>1</sup> ..... | 6,838,939 | 7,078,845 | Totals, Foreign Countries <sup>1</sup> ..... | 11,913,168        | 13,144,765        |
|                                           |           |           | <b>Grand Totals, Exports.</b>                | <b>18,752,107</b> | <b>20,223,610</b> |

<sup>1</sup>Totals include other countries not specified.

**15.—Exports of the Fisheries of Canada, by Quantities and Values, calendar years 1931-33.**

| Kind of Fish or Product.                                              | 1931.     |           | 1932.     |           | 1933.     |           |
|-----------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                                                       | Quantity. | Value.    | Quantity. | Value.    | Quantity. | Value.    |
|                                                                       |           | \$        |           | \$        |           | \$        |
| <b>Fish—</b>                                                          |           |           |           |           |           |           |
| Alwivies, salted.....cwt.                                             | 25,346    | 70,378    | 27,623    | 58,560    | 20,212    | 36,410    |
| Bait fish.....ton.                                                    | 2,029     | 49,738    | 1,026     | 18,420    | 621       | 13,653    |
| Clams, canned.....cwt.                                                | 1,774     | 23,598    | 1,683     | 26,969    | 421       | 7,440     |
| Clams, fresh.....cwt.                                                 | 36,772    | 54,235    | 27,144    | 46,108    | 14,856    | 26,907    |
| Codfish, boneless, canned or preserved, n.o.p.....cwt.                | 20,035    | 200,642   | 18,244    | 155,262   | 19,619    | 129,209   |
| Codfish, dried.....cwt.                                               | 374,500   | 2,422,723 | 325,474   | 1,604,378 | 346,869   | 1,801,666 |
| Codfish, fresh and frozen.....cwt.                                    | 5,108     | 39,065    | 6,711     | 42,703    | 7,042     | 43,133    |
| Codfish, green-salted (pickled).....cwt.                              | 72,067    | 277,469   | 79,384    | 224,706   | 118,124   | 310,766   |
| Codfish, smoked.....cwt.                                              | 5,033     | 57,305    | 5,695     | 52,785    | 5,831     | 51,711    |
| Beels, fresh and frozen.....cwt.                                      | 10,786    | 89,414    | 12,520    | 67,373    | 10,126    | 74,018    |
| Haddock, canned.....cwt.                                              | 306       | 3,838     | 266       | 3,866     | 11        | 79        |
| Haddock, dried.....cwt.                                               | 13,179    | 70,579    | 8,743     | 39,712    | 7,906     | 31,770    |
| Haddock, fresh and frozen.....cwt.                                    | 30,518    | 295,971   | 11,255    | 112,685   | 16,593    | 131,420   |
| Haddock, smoked.....cwt.                                              | 12,148    | 124,400   | 9,431     | 78,227    | 7,335     | 60,316    |
| Halibut, fresh and frozen.....cwt.                                    | 38,394    | 391,641   | 13,923    | 111,184   | 41,819    | 338,948   |
| Herrings, lake, fresh and frozen.....cwt.                             | 20,684    | 247,780   | 13,415    | 170,694   | 7,362     | 77,712    |
| Herrings, sea, canned.....cwt.                                        | 1         | 28        | 13        | 111       | 2,968     | 19,848    |
| Herrings, sea, dry-salted.....cwt.                                    | 884,354   | 1,145,738 | 406,017   | 376,930   | 589,539   | 628,213   |
| Herrings, sea, fresh and frozen.....cwt.                              | 92,104    | 94,110    | 78,565    | 62,587    | 151,745   | 97,244    |
| Herrings, sea, pickled.....cwt.                                       | 33,268    | 114,167   | 25,281    | 63,680    | 26,606    | 61,104    |
| Herrings, sea, smoked.....cwt.                                        | 53,844    | 184,885   | 43,723    | 127,291   | 59,751    | 151,337   |
| Lobsters, canned.....cwt.                                             | 67,724    | 3,113,392 | 56,640    | 2,469,550 | 67,294    | 2,450,831 |
| Lobsters, fresh.....cwt.                                              | 95,770    | 1,875,817 | 115,604   | 1,854,392 | 107,075   | 1,605,931 |
| Mackerel, fresh and frozen.....cwt.                                   | 17,984    | 113,595   | 8,813     | 32,235    | 5,714     | 27,956    |
| Mackerel, pickled.....cwt.                                            | 88,932    | 408,434   | 82,571    | 270,658   | 90,617    | 249,618   |
| Oysters, fresh.....cwt.                                               | 4,642     | 41,108    | 1,914     | 14,105    | 1,696     | 9,727     |
| Pilchards, canned.....cwt.                                            | 5,260     | 47,463    | 6,753     | 51,466    | 4,693     | 36,142    |
| Pollock, hake and cusk, boneless, canned or preserved, n.o.p.....cwt. | 25        | 175       | 36        | 215       | 54        | 258       |

**15.—Exports of the Fisheries of Canada, by Quantities and Values, calendar years 1931-33—concluded.**

| Kind of Fish or Product.                                          | 1931.     |                   | 1932.     |                   | 1933.     |                   |
|-------------------------------------------------------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|
|                                                                   | Quantity. | Value.            | Quantity. | Value.            | Quantity. | Value.            |
|                                                                   |           | \$                |           | \$                |           | \$                |
| Fish—concluded.                                                   |           |                   |           |                   |           |                   |
| Pollock, hake and cusk, dried....cwt.                             | 50,136    | 228,479           | 36,917    | 134,721           | 42,151    | 139,406           |
| Pollock, hake and cusk, fresh and frozen.....cwt.                 | 2,557     | 11,119            | 436       | 1,121             | 410       | 2,586             |
| Pollock, hake and cusk, green-salted.....cwt.                     | 4,807     | 10,820            | 3,444     | 4,781             | 15,535    | 19,064            |
| Pollock, hake and cusk, smoked....cwt.                            | —         | —                 | —         | —                 | 8         | 45                |
| Salmon, canned.....cwt.                                           | 410,307   | 5,909,948         | 376,235   | 4,467,596         | 459,644   | 5,270,092         |
| Salmon, dry-salted (chum).....cwt.                                | 424,124   | 750,311           | 173,777   | 209,484           | 95,125    | 168,709           |
| Salmon, fresh and frozen.....cwt.                                 | 98,327    | 1,121,335         | 85,049    | 834,589           | 113,483   | 1,148,520         |
| Salmon, pickled.....cwt.                                          | 16,528    | 209,346           | 15,068    | 161,003           | 22,186    | 279,342           |
| Salmon, smoked.....cwt.                                           | 234       | 3,743             | 121       | 2,490             | 227       | 4,373             |
| Salmon trout or lake trout, fresh and frozen.....cwt.             | 27,516    | 261,696           | 20,239    | 183,135           | 21,957    | 200,075           |
| Sardines (little fish in oil).....cwt.                            | 33,584    | 291,698           | 24,338    | 182,855           | 29,718    | 226,784           |
| Shell fish, other, fresh.....cwt.                                 | 2,301     | 40,236            | 3,153     | 42,760            | 7,509     | 120,938           |
| Smelts, fresh and frozen.....cwt.                                 | 64,094    | 814,917           | 70,796    | 782,973           | 65,878    | 663,301           |
| Sturgeon, fresh and frozen.....cwt.                               | 1,886     | 40,905            | 955       | 23,498            | 844       | 18,668            |
| Swordfish, fresh and frozen.....cwt.                              | 10,756    | 169,691           | 10,661    | 80,690            | 18,265    | 134,527           |
| Tongues and sounds.....cwt.                                       | 894       | 2,925             | 436       | 1,108             | 678       | 3,353             |
| Tullibee, fresh and frozen.....cwt.                               | 31,423    | 183,282           | 22,701    | 136,033           | 20,194    | 90,505            |
| Whitefish, fresh and frozen.....cwt.                              | 94,170    | 1,003,826         | 81,653    | 854,073           | 110,086   | 988,415           |
| Other fresh water fish, fresh and frozen.....cwt.                 | 282,435   | 2,003,831         | 254,197   | 1,576,614         | 270,372   | 1,664,788         |
| Other fresh water fish, salted, dried, smoked or pickled.....cwt. | 469       | 2,868             | 1,667     | 4,619             | 110       | 536               |
| Other sea fish, fresh and frozen.....cwt.                         | 3,934     | 39,402            | 5,252     | 27,271            | 5,597     | 26,958            |
| Other sea fish, salted, dried, smoked or pickled.....cwt.         | 3,667     | 20,715            | 6,037     | 30,432            | 1,412     | 7,869             |
| Other sea fish, canned or preserved, n.o.p.....cwt.               | 26        | 389               | 208       | 3,180             | 94        | 837               |
| Fishery Products—                                                 |           |                   |           |                   |           |                   |
| Fish meal.....cwt.                                                | 317,252   | 661,468           | 333,130   | 520,199           | 150,764   | 287,392           |
| Fish offal or refuse.....cwt.                                     | 11,685    | 19,741            | 15,735    | 26,420            | 8,500     | 15,870            |
| Oils—                                                             |           |                   |           |                   |           |                   |
| Cod-liver oil.....gal.                                            | 232,420   | 115,244           | 84,263    | 45,159            | 49,950    | 21,813            |
| Seal oil.....gal.                                                 | 200       | 90                | 3,883     | 945               | 1,400     | 420               |
| Whale oil.....gal.                                                | 68,806    | 13,474            | —         | —                 | 498,852   | 100,106           |
| Other fish oil.....gal.                                           | 2,211,762 | 284,595           | 1,540,534 | 191,673           | 181,158   | 34,393            |
| Seal skins, undressed.....No.                                     | 10,118    | 18,398            | 12,550    | 15,864            | 10,458    | 16,706            |
| Other products of the fisheries.....                              | —         | 56,374            | —         | 69,960            | —         | 93,820            |
| <b>Totals, Fish and Fishery Products...</b>                       | <b>—</b>  | <b>25,848,585</b> | <b>—</b>  | <b>18,752,107</b> | <b>—</b>  | <b>20,223,610</b> |

## CHAPTER XII.—MINES AND MINERALS.\*

An article on the geology of Canada, referring to the chief mineral-bearing areas of the Dominion, will be found at pp. 18-28 of the present edition of the Year Book. This is followed by an account of the chief discoveries and investigations of mineral-bearing ores in 1932 and 1933, at pp. 29-38; similar articles for earlier years were published in previous editions. These articles furnish references to more detailed sources of information in the publications of the Dominion and Provincial Governments and in the scientific journals.

The Mines and Minerals chapter of the Year Book is divided into six sections: (1) a sketch of the administration of mineral lands and mining laws, (2) a summary of general production, (3) the industrial statistics of the mining industries, (4) production of metallic minerals, (5) production of non-metallic minerals, (6) production of clay products and structural materials.

For more detailed information on the mineral production of Canada the reader is referred to the various reports issued by the Mining, Metallurgical and Chemical Branch of the Dominion Bureau of Statistics.

**Statistics of Mines and Minerals.**—The compilation and publication of statistics of the production of mines and minerals in the Dominion is carried out by the Mining, Metallurgical and Chemical Branch of the Dominion Bureau of Statistics, which works in close co-operation with the Mines Departments of the various Provincial Governments, collecting the data in collaboration with these Departments. Questionnaires sent out to the mining producers are designed to meet the requirements of both the Dominion and the provincial authorities, thus eliminating duplication of labour.

**Annual and Monthly Statistical Reports.**—Detailed statistics of the mineral production of the Dominion are published annually in a comprehensive Dominion-wide report, which includes detailed tables of production, capital invested in the mining industry, number of employees, salaries and wages, fuel and machinery used in mining, together with tables showing imports and exports of minerals and their products, and a résumé of general mining conditions. The latest of these reports available for distribution at the time of writing covers the calendar year 1933 and may be obtained from the Dominion Statistician on request.

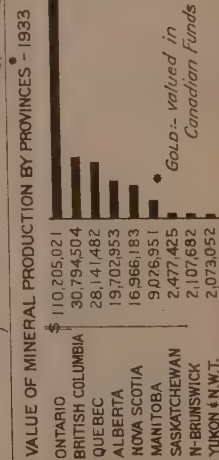
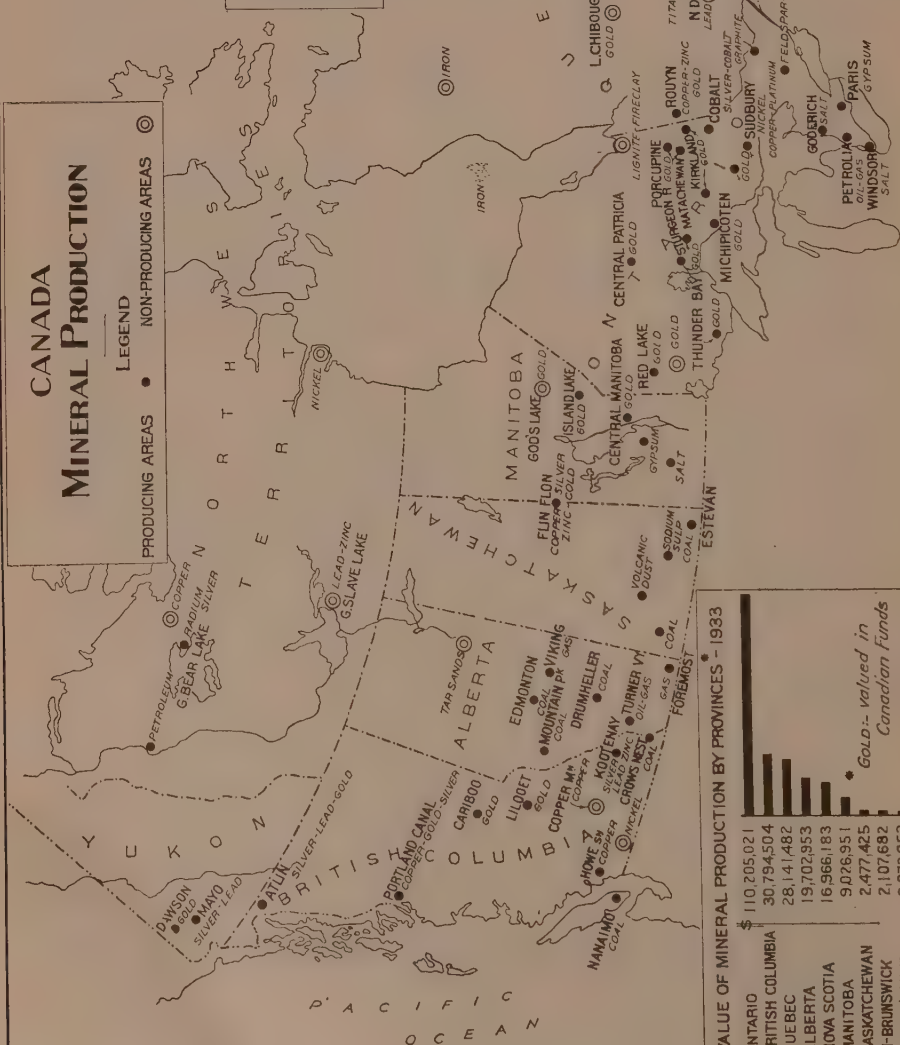
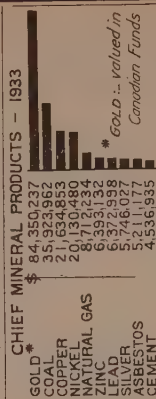
A summarized report on mineral production, giving fairly detailed preliminary figures for the preceding calendar year, is issued about Mar. 15 of each year, and the salient points are reviewed at the Annual Meeting of the Canadian Institute of Mining and Metallurgy held in the first week of April. (The 1934 report is now available.) Further, a bulletin, issued each year at the beginning of January, gives the most accurate estimate then possible for the mineral production of the year just closed. In addition to the above, annual bulletins giving the detailed production of each mineral are issued as soon as the final figures become available in each case.

Monthly statistics of the physical production of 16 of the leading minerals of Canada have been compiled for the past six years and are published separately in monthly bulletins. These figures indicate the current trend of activity in mining operations.

\*Revised by W. H. Losee, B.Sc., Chief of the Mining, Metallurgical and Chemical Branch, Dominion Bureau of Statistics. A complete list of the publications of this Branch appears in Chapter XXIX, Section I, under "Production".

# CANADA MINERAL PRODUCTION

LEGEND  
● PRODUCING AREAS  
○ NON-PRODUCING AREAS





**Coal Statistics.**—Coal is perhaps the most important of all minerals, from the point of view of the general public. This special position is recognized in some measure by the publication of an annual report on coal statistics, giving complete details of coal-mining operations in the various coal-producing provinces and showing the imports and exports of coal by kinds and by ports of entry and exit, together with industrial statistics in relation to coal mining. Monthly bulletins and quarterly reports on coal and coke statistics are also issued, giving coal and coke production and imports and exports, the quarterly printed reports showing in detailed form production of coal by areas, and imports and exports by ports of entry and exit.

## Section 1.—Mineral Lands Administration and Mining Laws.

The mineral lands of Canada, like other Crown lands, are administered by either the Dominion or the Provincial Governments. The Dominion Government administers the mineral lands of Yukon and the Northwest Territories as well as those in all Indian Reserves, and in National Parks in the Prairie Provinces and British Columbia. Since the transfer of the natural resources to the Prairie Provinces in 1930, all other mineral lands lying within the boundaries of the several provinces have been administered by the respective Provincial Governments.

### Subsection 1.—Dominion Mining Laws and Regulations.\*

Dominion lands to which these regulations apply are those administered by the Department of the Interior, and lie within Yukon and the Northwest Territories. Titles issued for Dominion lands, the property of the Dominion Government, in the territories of Canada, reserve to the Crown the mines and minerals which may be found on or under such lands, together with the right of operation.

**Placer.**—Claims 500 feet long and from 1,000 to 2,000 feet wide, according to location, may be staked out and acquired by any person 18 years of age or over. Claims to be marked by two legal posts, one at each end, and the line joining them marked. Creek claims are staked along the base line of the creek, and extend 1,000 feet on each side. River claims are 500 feet on one side of the river and extend back 1,000 feet. Other claims are staked parallel to the creek or river on which they front, 500 feet long by 1,000 feet. Expenditure in development of each claim to be incurred and proved each year, \$200 in Yukon and \$100 elsewhere. Royalty  $2\frac{1}{2}$  p.c. under Yukon Placer Mining Act.

**Quartz.**—"Mineral" under this heading means all deposits of metals and other useful minerals other than placer deposits, peat, coal, petroleum, natural gas, bitumen and oil shales.

Under the newer regulations, effective Apr. 2, 1932, applicable to the Northwest Territories, any prospector or locator of a mineral claim, whether an individual, mining partnership or a company, must hold a miner's licence, the fee being \$5 for an individual, from \$5 to \$20 for mining partnerships, and larger amounts proportionate to their capitalization for mining companies. A licensee may stake out 6 claims on his own licence and 12 more for two other licensees, not exceeding 18 in all in any one licence year in any mining division. A mineral claim shall be rectangular and marked by a post at each corner—maximum area 51.65 acres, being 1,500 feet

\*For copies of any of the regulations referred to, application may be made to the Lands, Northwest Territories and Yukon Branch, Department of the Interior, Ottawa.

square. Entry is granted by a mining recorder, fee \$5 for a claim located by a licensee on his own licence, and \$10 if located on behalf of another licensee. Grant is renewable from year to year, subject to representation work to the value of \$100 being done on the location each year. A maximum of 36 claims may be grouped for purposes of representation work. When prescribed representation work to the value of \$500 has been done and confirmed, discovery of mineral in place shown to have been made, a survey made by a Dominion land surveyor at grantee's expense and certain other requirements met, a lease is issued for a term of 21 years, renewable, the rental for the full term of a claim not exceeding 51.65 acres being \$50. The cost of the survey, reckoned as \$100, may be counted as work done on the claim. When the profits of a mine exceed \$10,000 in any calendar year, there is a royalty of from 3 to 6 p.c. or higher, proportionate to profits. Miners' licences are not required in Yukon under the Yukon Quartz Mining Act, but the general provisions of the Act are similar to those of the Quartz Mining Regulations above, except that the fee for a grant is \$10 and only 8 mineral claims can be grouped for operation.

In addition to these Quartz and Placer Mining Regulations, applicable to the Northwest Territories, and the Yukon Quartz and Placer Mining Acts, the following regulations regarding minerals are in force: *Yukon*.—Dredging Regulations; Petroleum and Natural Gas Regulations. *Yukon and Northwest Territories*.—Alkali Mining Regulations; Carbon-Black Regulations; Coal Mining Regulations; Potash Regulations and Domestic Coal Permits. *Northwest Territories*.—Dredging Regulations; Oil and Gas Regulations; Quarrying Regulations and Permits to remove sand, stone and gravel from beds of rivers.

### Subsection 2.—Provincial Mining Laws and Regulations.

**Nova Scotia.**—All minerals in Nova Scotia, except limestone, gypsum and building materials, are the property of the Crown. They are dealt with under the provisions of the Mines Act (c. 22, R.S.N.S., 1923) and amending Acts of 1927 (c. 17), 1929 (c. 22) and 1933 (c. 12), and are administered by the Minister of Public Works and Mines, at whose office in the Parliament Buildings, Halifax, all records of mining titles are kept.

The chief mineral product of Nova Scotia is coal, which is subject to a royalty of 12½ cents per long ton. Coal used in mining operations, or for domestic purposes by workmen employed about the mine, is exempted from royalty. Other important minerals of Nova Scotia are gold, salt, lead, zinc, copper, diatomaceous earth, manganese, antimony, gypsum and limestone.

Licences to search for mineral, good for a year, are issued at a nominal fee. More permanent holding is obtained by lease, which, in the case of minerals other than gold and silver, is granted for 20 years (subject to payment of an annual rental and the performance of work), the lease carrying the right to three successive renewals of 20 years each. A lease for gold and silver is given for 40 years, subject to a small annual rental and performance of work.

Full information concerning minerals and mining laws may be obtained by writing the Department of Public Works and Mines at the above address.

**New Brunswick.**—In most grants of Crown land since about the year 1805, all mines and minerals are reserved to the Crown and regarded as property separate from the soil. Prior to that time, most of the grants reserved only gold, silver, copper, lead and coal. Royalties levied are 10 cents per long ton on coal and 5 p.c.

on the value at the well's mouth for petroleum and natural gas. Prospectors must obtain a licence costing \$10, good for the calendar year, entitling the prospector to stake up to 10 claims of 40 acres each. Claims must be registered within 30 days and 25 days' work done on each claim within the year, after which a mining licence, renewable annually on the payment of \$10 per claim, will be granted. Administration is carried on under the provisions of the Mining Act (c. 35, R.S.N.B., 1927). For full information apply to the Department of Lands and Mines, Fredericton, N.B.

**Quebec.**—The mining lands of Quebec are administered by the Minister of Mines, subject to the provisions of the Quebec Mining Act (c. 80, R.S.Q., 1925) and amendments.

In townships the Crown retains full mining rights on lands granted subsequently to July 24, 1880, and, in the case of gold and silver, on lands granted previously to that date. All mining rights belong to the Crown in most of the seigneuries.

Mining lands up to 200 acres can be acquired by staking the ground as prescribed by the Mining Act. Claims must be recorded and 25 days work per claim done within 12 months, when a mining licence is granted upon payment of 50 cents an acre and a recording fee of \$10. The licence is renewable annually. When a mineral occurrence of importance has been found, the mining rights can be purchased as a mining concession for \$5 per acre for superior minerals and \$3 per acre for inferior minerals.

Mining operators must make annual returns to the Minister. Taxes are payable on annual profits at rates graduated up from 3 p.c. A mining inspector is appointed in each mining division for the administration of the mining laws and regulations.

Information and statistics on mining operations and geological explorations are to be found in the Annual Report of the Quebec Bureau of Mines.

**Ontario.**—Ontario owns and administers for mining purposes, through her Department of Mines, all the Crown lands within her boundaries except Indian lands. Mining lands are subject to the provisions of the Mining Act (c. 45, R.S.O., 1927). Title is a grant in fee simple, except in provincial forests, where the lands are leased. A resident mining recorder is appointed for each mining division in the mineral areas. There is a tax of 5 cents per acre per annum on patented and leased mining lands in unorganized territory. Other taxation is on the net profits, the rate being 3 p.c. up to \$1,000,000; 5 p.c. from \$1,000,000 to \$5,000,000 and 6 p.c. on the excess above \$5,000,000. The first \$10,000 of profit is exempt. There is no apex law, all claim boundaries extending vertically downwards. Disputes are settled by the recorder, or, on appeal, by the judge of the Mining Court of Ontario.

A miner's licence is necessary to stake out or acquire Crown lands for mining purposes, fee \$5 per year for an individual; for companies, \$100 on each million dollars capital. The holder may stake out for himself three claims in any and every mining division, and six additional for other licence holders, but not more than three for any individual licensee. A mining claim in unsurveyed territory is a square of 20 chains to a side (40 acres) with lines N.-S. and E.-W. astronomically. Where land is subdivided into lots a claim may be an eighth, a quarter or a half lot, *i.e.*, up to 50 acres.



There are special provisions regarding petroleum, natural gas, coal and salt on the James Bay slope, where these substances may be searched for under authority of a boring permit. A total of 1,920 acres may be taken up by an individual in blocks of 640 acres. Certain areas have been withdrawn from staking.

Full information concerning mineral resources and mining laws may be obtained by writing the Department of Mines, Parliament Buildings, Toronto, Ontario.

**Manitoba.**—With the transfer of the natural resources to Manitoba on July 15, 1930, control of most of the public lands passed to the Department of Mines and Natural Resources of the Manitoba Government.

The Mines Act (c. 27, 1930) and regulations thereunder govern the administration and leasing of: (1) Mineral claims—gold, silver, copper, zinc, etc.; (2) Boring permits—coal, natural gas, oil shale, petroleum and salt; (3) Quarrying locations—granite, limestone, marble, slate or any building stone, gypsum, gravel, marl, peat and sand.

A miner's licence is necessary to stake out Crown lands for mining purposes; fee is \$5 for an individual and larger amounts for mining partnerships and mining companies. A licensee may, in any one licence year and in any one mining division, stake out for himself not more than three mineral claims and not more than six for other licensees, being a maximum of nine in all, provided that not more than three claims shall be staked out or applied for on behalf of any other such licensee. He may also obtain one boring permit or one quarrying location.

A mineral claim in unsurveyed territory is a square of 1,500 feet (51.65 acres) with lines N.-S. and E.-W. astronomically. A boring permit allows 640 acres to be taken up and a quarrying location may cover an area up to 40 acres. The fee is \$5 for recording a claim located by the licensee and \$10 if recorded on behalf of another licensee. After recording, 25 days work per claim must be done per year for 5 years. A maximum of nine claims may be grouped for the purpose of this work. When 125 days work has been done, and certain other requirements complied with, a lease is granted. The cost of the survey may be reckoned as one years work done on the claim.

A boring permit good for one year is necessary to search for oil, coal, gas or salt. If mineral is discovered a 21-year lease may be obtained subject to annual rental and certain annual work.

Lands containing granite, limestone, marble, slate or any building stone, together with clay, gravel, gypsum or sand may be leased at an annual rental, provided \$2.50 per acre per annum be expended in taking out the material.

For a copy of the regulations governing the disposal of mineral rights, apply to the Director, Mines Branch, Department of Mines and Natural Resources, Winnipeg, Manitoba. Mining recorders' offices are located at Winnipeg and The Pas.

**Saskatchewan.**—On Oct. 1, 1930, Saskatchewan came into control of its natural resources, which had previously been controlled and administered by the Dominion. By the Mineral Resources Act of 1931, regulations, differing somewhat from those of former Dominion laws, have been brought into force dealing with coal, petroleum and natural gas, and placer. Except for these changes, the regulations are similar to the former Dominion ones.

**Coal.**—The area which may be taken for a location is now from 20 to 640 acres. Application may be made by mail or in person and any eligible person may apply



for three locations. The length of a location must not exceed three times the breadth. The minimum required to be mined annually is 5 tons per acre. Prior to commencing, a lessee must secure a permit to operate.

*Petroleum and Natural Gas.*—Applications may be made by mail or in person. The area of a location for unsurveyed land may be 160 to 1,920 acres but, while one applicant is allowed three locations, the total area must not exceed 1,920 acres. A permit must be obtained before commencing operations and all drillers must secure a licence of competency to ensure that drilling will be efficiently carried out. The record of a driller may be obtained by payment of a fee. Operators are required to furnish a substantial bond to guarantee compliance with the regulations.

Permits to prospect for oil and gas are granted under similar regulations except that a cash rental of 10 cents per acre is required and a bond of 40 cents per acre which is forfeited if work to determine structure is not carried out within one year.

*Placer.*—These regulations remain as under Dominion administration except that 30 instead of 10 adjoining claims may now be grouped.

The Saskatchewan Mines Act provides for the competency of mine managers and pit bosses, for the reporting of accidents, and generally for the welfare and safety of those employed in the production of minerals.

For further information apply to the Department of Natural Resources, Regina, Saskatchewan.

**Alberta.**—Since the Dominion Government in 1930 transferred control of the natural resources lying within the boundaries of Alberta to the Provincial Government, the leasing or disposal of mineral lands or rights is administered under provincial laws and regulations. However, mineral lands or rights within the province are being administered by the Provincial Government in accordance with the Dominion mining laws and regulations in force at the time of the transfer.

The Coal Mines Regulation Act of the province of Alberta and regulations made thereunder make provision for the safe operation of mines in the province, applying to mines of coal, ironstone, shale, clay and other minerals. Operations must be under the control of officials who hold certificates granted after suitable examination. A staff of inspectors is provided to administer the regulations. Monthly reports of operations must be returned to the Minister.

The Coal Sales Act requires that all coal mines shall be registered by name and all coal produced in Alberta sold under the registered name. The Coal Miners' Wages Security Act requires all coal operators to provide bond to insure the payment of wages, unless exemption is obtained through the Board of Public Utility Commissioners.

**British Columbia.**—The Department of Mines, organized under the provisions of c. 163, R.S.B.C., and amendments, administers mineral lands, and has charge of all matters relating to mining, including the Bureau of Mines and all offices established under the Bureau of Mines Act and all Government offices in connection with the mining industry.

The terms of the mining laws are favourable to the prospector, fees and rentals being small. On a lode mine of 51 acres an expenditure of \$500 in work, which may be spread over 5 years, is required to obtain a Crown grant, while surface rights are obtainable at a figure in no case exceeding \$5 per acre. Any person over the age of

18 and any joint stock company can obtain a "free miner's certificate" on payment of a fee, which for the individual is \$5 per annum and for a joint stock company either \$50 or \$100 per annum depending on capitalization. Mineral claims located under the provisions of the Mineral Act must not exceed 1,500 square feet.

*Placer.*—Placer mining is governed by the Placer Mining Act and its scope is defined as "the mining of any natural stratum or bed of earth, gravel, or cement mined for gold or other precious minerals or stones".

*Placer Claims.*—Placer claims are of 3 classes, as follows: (1) Creek diggings—250 feet long and 1,000 feet wide, 500 feet on each side of the stream; (2) Bard diggings—250 feet square on a bar covered at high water, or a strip 250 feet long at high water, extending between high-water mark and extreme low-water mark; (3) Dry diggings, over which water never extends—250 feet square.

A placer claim must be worked by the owner, or someone on his behalf, continuously during working hours. Discontinuance for 72 hours, except in closed season, lay-over, leave of absence, sickness or other reason satisfactory to the Gold Commissioner, is deemed abandonment. To hold a placer claim more than one year, it must be again recorded before expiration of the year.

*Placer Leases.*—Leases of unoccupied Crown lands approximately 80 acres in extent may be granted by the Gold Commissioner of the district, the annual rental for same being \$30 and the annual expenditure required in development work \$250. Dredging leases on rivers below low-water mark also are granted for 5 miles; the annual rental for same is \$25 per mile and the annual expenditure required in development is \$1,000 per mile, the value of any new plant or machinery employed to count as development. Leases of precious stone diggings, 10 acres in extent, may also be obtained.

## Section 2.—Summary of General Production.

Since 1886, the first year that the Geological Survey issued complete returns of mineral production, Canada has shown a fairly steady growth in mineral output. In that year the per capita production was only \$2.23; in 1901, five years after the Yukon discoveries, production totalled \$12.16 per capita, but there was a falling-off from 1902 to 1904. Thereafter, owing to the discovery of silver in the Cobalt area, the development of the copper-nickel ores of the Sudbury district, the opening up of the gold mines of Porcupine and Kirkland Lake in Ontario, the improvements in metallurgical practice which led to the recoveries of large quantities of lead and zinc from British Columbian ores, and the discoveries and developments in Quebec and Manitoba, the per capita production rose to \$31 in 1929, although owing to world-wide economic depression it dropped to \$18.20 in 1932, later increasing to \$20.73 in 1933 and about \$25.62 in 1934 with the general improvement in economic conditions.

In 1933, the latest year for which complete world figures of the Imperial Institute are available, Canada stood first in the production of asbestos and nickel, second in the output of gold and cobalt, third in copper, silver, zinc, and lead, and thirteenth in the production of coal. During that year Canada produced approximately 82 p.c. of the world production of nickel, 75 p.c. of the asbestos, 20 p.c. of the cobalt, 13.2 p.c. of the gold, 9.3 p.c. of the silver, 13.4 p.c. of the copper, 10.2 p.c. of the lead and 10.2 p.c. of the zinc.

The Preliminary Report on the mineral production of Canada, based on a special survey of the industry by the Bureau and released on Mar. 17, 1935, shows a total valuation of \$277,492,263 for the mineral output of the Dominion in 1934 compared with \$221,495,253 in 1933. This represents an increase of 26 p.c. and reflects the continuation of the improved conditions commencing in 1933.

Prospecting for gold ores and the exploration and development of known auriferous deposits were more extensively carried on throughout Canada during 1932, 1933 and 1934 than for many years. These activities were common to both the older producing camps and new areas. The higher price for gold stimulated the study and examination of new deposits or ore zones heretofore considered of doubtful economic importance. In certain of the older camps properties closed prior to the revaluation of gold were reopened and placed in production or further explored as to their possibilities. In some of the producing mines the higher price for the metal permitted a very considerable extension or increase of pay ore with the resultant milling of rock of lower gold content and important increases in ore reserves. During 1933, notable gains in production, compared with 1932, were recorded in the base metal mining industry and these gains were extended during 1934. The more outstanding of these were in copper, lead, nickel and zinc and it is creditable to the organizations engaged in the production of these particular metals that they should be able to expand production at the prevailing low level of prices.

Production of various non-metallic minerals, especially asbestos and coal, realized important gains in 1933 and 1934. The gains in the structural materials industries were particularly encouraging during 1934, as recessions had been severe during the period of business depression.

### Subsection 1.—General Statistics of Mineral Production.

In Table 1 will be found the total values of the minerals produced in Canada in each year since 1886, while Table 2 gives the details of the mineral production of 1932 and 1933, with the percentage of increase or decrease in the latter year, and Table 2A preliminary figures of production for the principal minerals in 1934.

1.—Value<sup>1</sup> of Mineral Production in Canada, calendar years 1886-1934.

| Calendar Year. | Total Value. | Value per capita. | Calendar Year. | Total Value. | Value per capita. | Calendar Year.          | Total Value.             | Value per capita.  |
|----------------|--------------|-------------------|----------------|--------------|-------------------|-------------------------|--------------------------|--------------------|
|                | \$           | \$                |                | \$           | \$                |                         | \$                       | \$                 |
| 1886.....      | 10,221,255   | 2-23              | 1902.....      | 63,231,836   | 11-51             | 1918....                | 211,301,897              | 25-93              |
| 1887.....      | 10,321,331   | 2-23              | 1903.....      | 61,740,513   | 10-90             | 1919.....               | 176,686,890              | 21-26              |
| 1888.....      | 12,518,894   | 2-67              | 1904.....      | 60,082,771   | 10-31             | 1920.....               | 227,859,665              | 26-63              |
| 1889.....      | 14,013,113   | 2-96              | 1905.....      | 69,078,999   | 11-51             | 1921.....               | 171,923,342              | 19-56              |
| 1890.....      | 16,763,353   | 3-51              | 1906.....      | 79,286,697   | 12-86             | 1922.....               | 184,287,242              | 20-66              |
| 1891.....      | 18,976,616   | 3-93              | 1907.....      | 86,865,202   | 13-55             | 1923.....               | 214,079,331              | 23-76              |
| 1892.....      | 16,623,415   | 3-40              | 1908.....      | 85,557,101   | 12-92             | 1924.....               | 209,583,406              | 22-92              |
| 1893.....      | 20,035,082   | 4-06              | 1909.....      | 91,831,441   | 13-50             | 1925.....               | 226,553,333              | 24-38              |
| 1894.....      | 19,931,158   | 4-00              | 1910.....      | 106,823,623  | 15-29             | 1926.....               | 240,437,123              | 25-44              |
| 1895.....      | 20,505,917   | 4-08              | 1911.....      | 103,220,994  | 14-32             | 1927.....               | 247,356,695              | 25-67              |
| 1896.....      | 22,474,256   | 4-42              | 1912.....      | 135,048,296  | 18-28             | 1928.....               | 274,989,487              | 27-97              |
| 1897.....      | 28,485,023   | 5-56              | 1913.....      | 145,634,812  | 19-08             | 1929.....               | 310,850,246              | 31-00              |
| 1898.....      | 38,412,431   | 7-42              | 1914.....      | 128,863,075  | 16-36             | 1930.....               | 279,873,578              | 27-42              |
| 1899.....      | 49,234,005   | 9-41              | 1915.....      | 137,109,171  | 17-18             | 1931.....               | 230,434,726 <sup>3</sup> | 22-21 <sup>3</sup> |
| 1900.....      | 64,420,877   | 12-15             | 1916.....      | 177,201,534  | 22-15             | 1932.....               | 191,228,225 <sup>3</sup> | 18-20 <sup>3</sup> |
| 1901.....      | 65,797,911   | 12-25             | 1917.....      | 189,646,821  | 23-53             | 1933.....               | 221,495,253              | 20-73              |
|                |              |                   |                |              |                   | 1934 <sup>2</sup> ..... | 277,492,263              | 25-62              |

<sup>1</sup>Beginning with 1931 exchange equalization on gold production is included in total value. <sup>2</sup>Figures for 1934 are subject to revision. <sup>3</sup>Revised since the publication of the 1933 Year Book.

## 2.—Mineral Production of Canada, calendar years 1932 and 1933.

| Item.                                                                 | 1932.       |             | 1933.       |             | P.C. Increase (+)<br>or Decrease (—) in 1933. |         |
|-----------------------------------------------------------------------|-------------|-------------|-------------|-------------|-----------------------------------------------|---------|
|                                                                       | Quantity.   | Value.      | Quantity.   | Value.      | Quantity.                                     | Value.  |
| <b>METALLICS.</b>                                                     |             | \$          |             | \$          | p.c.                                          | p.c.    |
| Arsenic (As <sub>2</sub> O <sub>3</sub> )..... lb.                    | 2,424,342   | 98,714      | 1,468,022   | 56,534      | —                                             | 42.7    |
| Bismuth..... lb.                                                      | 16,855      | 7,340       | 78,303      | 81,526      | +                                             | 1,010.7 |
| Cadmium..... lb.                                                      | —           | 26,824      | —           | 78,733      | —                                             | 193.5   |
| Chromite..... tons                                                    | 78          | 1,113       | 30          | 343         | —                                             | 69.2    |
| Cobalt..... lb.                                                       | 490,631     | 587,957     | 466,702     | 597,752     | —                                             | 1.7     |
| Copper..... lb.                                                       | 247,679,070 | 15,294,058  | 299,982,448 | 21,634,853  | +                                             | 41.5    |
| Gold..... fine oz.                                                    | 3,044,387   | 62,933,063  | 2,949,309   | 60,967,626  | —                                             | 3.1     |
| Estimated equalization ex-<br>change paid for gold pro-<br>duced..... | —           | 8,546,310   | —           | 23,382,611  | —                                             | 173.6   |
| Lead..... lb.                                                         | 255,947,378 | 5,409,704   | 266,475,191 | 6,372,998   | +                                             | 17.8    |
| Nickel..... lb.                                                       | 30,327,968  | 7,179,862   | 83,264,658  | 20,130,480  | +                                             | 180.4   |
| Palladium, Rhodium, Irid-<br>ium, etc..... fine oz.                   | 37,613      | 901,890     | 31,009      | 645,043     | —                                             | 28.5    |
| Platinum..... fine oz.                                                | 27,343      | 1,099,393   | 24,786      | 857,590     | —                                             | 22.0    |
| Selenium..... lb.                                                     | —           | —           | 48,221      | 70,345      | —                                             | —       |
| Silver..... fine oz.                                                  | 18,347,907  | 5,811,081   | 15,187,950  | 5,746,027   | —                                             | 1.1     |
| Zinc..... lb.                                                         | 172,283,558 | 4,144,454   | 199,131,984 | 6,393,132   | +                                             | 54.3    |
| <b>Totals, Metallic Minerals..</b>                                    | —           | 112,041,763 | —           | 147,015,593 | —                                             | 31.2    |
| <b>NON-METALLICS.</b>                                                 |             |             |             |             |                                               |         |
| <b>Fuels.</b>                                                         |             |             |             |             |                                               |         |
| Coal..... tons                                                        | 11,738,913  | 37,117,695  | 11,903,344  | 35,923,962  | +                                             | 3.2     |
| Natural gas..... M cu. ft.                                            | 23,420,174  | 8,899,462   | 23,138,103  | 8,712,234   | —                                             | 2.1     |
| Peat..... tons                                                        | 3,248       | 7,593       | 1,131       | 3,449       | —                                             | 54.6    |
| Petroleum, crude..... bbl.                                            | 1,044,412   | 3,022,592   | 1,145,333   | 3,138,791   | +                                             | 3.9     |
| <b>Totals, Fuels.....</b>                                             | —           | 49,047,342  | —           | 47,778,436  | —                                             | 2.6     |
| <b>Other Non-Metallic Minerals.</b>                                   |             |             |             |             |                                               |         |
| Asbestos..... tons                                                    | 122,977     | 3,039,721   | 158,367     | 5,211,177   | +                                             | 71.4    |
| Barytes..... "                                                        | —           | —           | 20          | 60          | —                                             | —       |
| Bituminous sands..... "                                               | 343         | 1,372       | 466         | 1,662       | +                                             | 21.1    |
| Diatomite..... "                                                      | 1,496       | 29,509      | 1,789       | 36,648      | +                                             | 24.2    |
| Feldspar..... "                                                       | 7,047       | 81,982      | 10,658      | 105,117     | +                                             | 28.2    |
| Fluorspar..... "                                                      | 32          | 464         | 73          | 1,064       | +                                             | 129.3   |
| Graphite..... "                                                       | 346         | 18,483      | 406         | 18,367      | +                                             | 0.6     |
| Grindstones..... "                                                    | 328         | 15,735      | 498         | 21,919      | +                                             | 39.3    |
| Gypsum..... "                                                         | 438,629     | 1,080,379   | 382,736     | 675,822     | —                                             | 37.4    |
| Iron oxides (ochres)..... "                                           | 5,240       | 46,161      | 4,357       | 53,450      | —                                             | 15.8    |
| Magnesitic dolomite..... "                                            | —           | 262,860     | —           | 360,128     | —                                             | 37.0    |
| Magnesium sulphate..... tons                                          | —           | —           | 120         | 3,360       | —                                             | —       |
| Mica..... "                                                           | 309         | 6,828       | 944         | 49,284      | +                                             | 621.8   |
| Mineral water..... Imp. gal.                                          | 76,714      | 7,170       | 38,818      | 5,441       | —                                             | 24.1    |
| Phosphate..... tons                                                   | 1,316       | 12,333      | 2,214       | 5,475       | +                                             | 55.6    |
| Quartz..... "                                                         | 189,132     | 276,147     | 185,783     | 297,820     | +                                             | 7.9     |
| Salt..... "                                                           | 263,543     | 1,947,551   | 280,115     | 1,939,874   | +                                             | 0.4     |
| Silica brick..... M                                                   | 93          | 4,304       | 636         | 23,185      | +                                             | 438.7   |
| Soapstone..... "                                                      | —           | 46,751      | —           | 47,680      | —                                             | 2.0     |
| Sodium carbonate..... tons                                            | 495         | 5,450       | 559         | 5,773       | +                                             | 5.9     |
| Sodium sulphate..... "                                                | —           | 271,736     | —           | 485,416     | —                                             | 78.6    |
| Sulphur..... tons                                                     | 53,172      | 470,014     | 57,373      | 510,299     | +                                             | 8.6     |
| Talc..... "                                                           | 12,103      | 112,287     | 15,181      | 143,156     | +                                             | 27.5    |
| Volcanic dust..... "                                                  | 180         | 3,600       | 118         | 2,360       | —                                             | 34.4    |
| <b>Totals, Other Non-Metallic<br/>Minerals.....</b>                   | —           | 7,740,837   | —           | 10,004,537  | —                                             | 29.3    |
| <b>Totals, Non-Metallic<br/>Minerals.....</b>                         | —           | 56,788,179  | —           | 57,782,973  | —                                             | 1.8     |



## 2.—Mineral Production of Canada, calendar years 1932 and 1933—concluded.

| Item.                                                           | 1932.      |             | 1933.      |             | P.C. Increase (+)<br>or Decrease (—) in 1933. |         |
|-----------------------------------------------------------------|------------|-------------|------------|-------------|-----------------------------------------------|---------|
|                                                                 | Quantity.  | Value.      | Quantity.  | Value.      | Quantity.                                     | Value.  |
| CLAY PRODUCTS AND OTHER<br>STRUCTURAL MATERIALS.                |            | \$          |            | \$          | p.c.                                          | p.c.    |
| <i>Clay Products.</i>                                           |            |             |            |             |                                               |         |
| Brick—                                                          |            |             |            |             |                                               |         |
| Soft mud process—                                               |            |             |            |             |                                               |         |
| {face..... M                                                    | 6,188      | 108,582     | 2,482      | 41,737      | —                                             | 59.9 —  |
| {common..... M                                                  | 12,801     | 182,372     | 12,389     | 156,769     | —                                             | 3.2 —   |
| Stiff mud process<br>(wire cut)—                                |            |             |            |             |                                               |         |
| {face..... M                                                    | 30,197     | 664,756     | 19,602     | 412,367     | —                                             | 35.1 —  |
| {common..... M                                                  | 40,753     | 638,922     | 23,894     | 356,498     | —                                             | 41.4 —  |
| Dry press—                                                      |            |             |            |             |                                               |         |
| {face..... M                                                    | 5,522      | 119,547     | 4,544      | 101,252     | —                                             | 17.7 —  |
| {common..... M                                                  | 4,248      | 46,762      | 3,916      | 44,377      | —                                             | 7.8 —   |
| Fancy or ornamental                                             |            |             |            |             |                                               |         |
| brick..... M                                                    | 125        | 6,237       | 630        | 7,824       | +                                             | 404.0 + |
| Sewer brick..... M                                              | 643        | 12,156      | 243        | 3,693       | —                                             | 62.2 —  |
| Paving brick..... M                                             | 6          | 155         | 1          | 42          | —                                             | 83.3 —  |
| Firebrick..... M                                                | 1,580      | 71,757      | 1,547      | 73,226      | —                                             | 2.1 +   |
| Fireclay and other clay tons                                    | 990        | 11,826      | 1,421      | 11,273      | +                                             | 43.5 —  |
| Fireclay blocks and shapes.                                     | —          | 75,209      | —          | 80,625      | —                                             | +       |
| Hollow blocks..... tons                                         | 48,118     | 421,672     | 26,747     | 160,059     | —                                             | 44.4 —  |
| Roofing tile..... No.                                           | 48,939     | 3,900       | 20,469     | 1,136       | —                                             | 58.2 —  |
| Floor tile (quarries).....sq. ft.                               | 94,316     | 21,502      | 91,495     | 14,297      | —                                             | 3.0 —   |
| Drain tile..... M                                               | 7,385      | 186,670     | 10,057     | 222,829     | +                                             | 36.2 +  |
| Sewer pipe, copings, flue lin-<br>ings, etc.                    | —          | 813,224     | —          | 354,458     | —                                             | —       |
| Pottery, glazed or unglazed.                                    | —          | 244,861     | —          | 202,500     | —                                             | —       |
| Bentonite..... tons                                             | 7          | 176         | 55         | 1,363       | +                                             | 685.7 + |
| Other clay products.....                                        | —          | 19,932      | —          | 16,510      | —                                             | —       |
| Totals, Clay Products..                                         | —          | 3,650,218   | —          | 2,262,835   | —                                             | —       |
| <i>Other Structural Materials.</i>                              |            |             |            |             |                                               |         |
| Cement..... brl.                                                | 4,498,721  | 6,930,721   | 3,007,432  | 4,536,935   | —                                             | 33.2 —  |
| Lime..... tons                                                  | 320,650    | 2,394,537   | 823,540    | 2,432,306   | +                                             | 0.9 +   |
| Sand and gravel..... "                                          | 14,469,942 | 4,480,596   | 11,738,823 | 4,464,285   | —                                             | 18.9 —  |
| Slate..... "                                                    | 250        | 3,750       | 250        | 3,750       | —                                             | —       |
| Stone—                                                          |            |             |            |             |                                               |         |
| Granite..... "                                                  | 490,822    | 1,110,582   | 256,723    | 679,585     | —                                             | 47.7 —  |
| Limestone..... "                                                | 3,687,241  | 3,227,715   | 2,572,911  | 2,142,516   | —                                             | 30.2 —  |
| Marble..... "                                                   | 12,379     | 250,706     | 10,897     | 65,913      | —                                             | 12.0 —  |
| Sandstone..... "                                                | 500,480    | 349,458     | 99,043     | 108,562     | —                                             | 80.2 —  |
| Totals, Other Structural<br>Materials.....                      | —          | 18,748,065  | —          | 14,433,852  | —                                             | —       |
| Totals, Clay Products and<br>Other Structural<br>Materials..... | —          | 22,398,283  | —          | 16,696,687  | —                                             | —       |
| Grand Totals (Canadian<br>Funds).....                           | —          | 191,228,225 | —          | 221,495,253 | —                                             | +       |

†Sulphur content of pyrites shipped and estimated sulphur contained in the sulphuric acid made from smelter gases.

2A.—Mineral Production of Canada, calendar year 1934.<sup>1</sup>

| Item.                                                 | Quantity.   | Value.             | Item.                                                            | Quantity.  | Value.             |
|-------------------------------------------------------|-------------|--------------------|------------------------------------------------------------------|------------|--------------------|
| <b>METALLICS.</b>                                     |             |                    | <b>CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS.</b>             |            |                    |
| Arsenic (As <sub>2</sub> O <sub>3</sub> )..... lb.    | 1,659,513   | 56,652             | <i>Clay Products.</i>                                            |            |                    |
| Bismuth..... lb.                                      | 253,644     | 301,215            | <i>Brick—</i>                                                    |            |                    |
| Cadmium..... lb.                                      | —           | 91,019             | Soft mud—                                                        |            |                    |
| Chromite..... tons                                    | 46          | 723                | (face..... M                                                     | 5,980      | 99,257             |
| Cobalt..... lb.                                       | 588,566     | 589,933            | (common..... "                                                   | 12,912     | 167,589            |
| Copper..... "                                         | 364,890,860 | 26,681,069         | Stiff mud (wire cut)—                                            |            |                    |
| Gold valued at standard rate..... fine oz.            | 2,969,680   | 61,388,732         | (face..... "                                                     | 22,627     | 467,093            |
| Estimated exchange equalization on gold produced..... | —           | 41,065,228         | (common..... "                                                   | 28,793     | 405,349            |
| Lead..... lb.                                         | 346,270,062 | 8,436,524          | Dry press—                                                       |            |                    |
| Nickel..... "                                         | 128,687,340 | 32,139,425         | (face..... "                                                     | 5,621      | 124,335            |
| Palladium, rhodium, iridium, etc..... fine oz.        | 83,932      | 1,699,282          | (common..... "                                                   | 5,669      | 62,048             |
| Platinum..... "                                       | 116,230     | 4,490,763          | Fancy or ornamental brick..... "                                 | 14         | 835                |
| Silver..... "                                         | 16,441,361  | 7,803,218          | Sewer brick..... "                                               | 307        | 5,992              |
| Titanium ore..... tons                                | 2,023       | 14,161             | Paving brick..... "                                              | —          | —                  |
| Zinc..... lb.                                         | 298,579,581 | 9,087,568          | Firebrick..... "                                                 | 1,948      | 92,458             |
| <b>Totals, Metallics<sup>2</sup>...</b>               | <b>—</b>    | <b>193,845,512</b> | Fireclay and other clay..... tons                                | 787        | 10,674             |
| <b>NON-METALLICS.</b>                                 |             |                    | Fireclay blocks and shapes.....                                  | —          | 80,112             |
| <i>Fuels.</i>                                         |             |                    | Structural Tile—                                                 |            |                    |
| Coal..... tons                                        | 13,795,649  | 41,922,253         | Hollow blocks.... tons                                           | 30,674     | 243,027            |
| Natural gas..... M cu. ft.                            | 21,948,855  | 8,419,073          | Roofing tile..... No.                                            | 44,115     | 1,852              |
| Peat..... tons                                        | 563         | 783                | Floor tile (quarries)..... sq. ft.                               | 87,604     | 18,886             |
| Petroleum, crude.... brl.                             | 1,417,368   | 3,558,482          | Drain tile..... M                                                | 6,757      | 219,369            |
| <b>Totals, Fuels.....</b>                             | <b>—</b>    | <b>53,900,591</b>  | Sewer pipe, copings, etc.....                                    | —          | 387,738            |
| <i>Other Non-Metallic Minerals.</i>                   |             |                    | Pottery, glazed or unglazed.....                                 | —          | 224,295            |
| Actinolite..... tons                                  | 30          | 365                | Bentonite..... tons                                              | 63         | 1,578              |
| Asbestos..... "                                       | 155,980     | 4,936,326          | Kaolin..... "                                                    | 48         | 504                |
| Barytes..... "                                        | —           | —                  | Other clay products.....                                         | —          | 10,987             |
| Bituminous sands.... "                                | 862         | 3,449              | <b>Totals, Clay Products</b>                                     | <b>—</b>   | <b>2,623,978</b>   |
| Diatomite..... "                                      | 1,370       | 54,750             | <i>Other Structural Materials.</i>                               |            |                    |
| Feldspar..... "                                       | 17,335      | 140,975            | Cement..... brl.                                                 | 3,783,226  | 5,667,946          |
| Fluorspar..... "                                      | 150         | 2,100              | Lime..... tons                                                   | 367,317    | 2,752,787          |
| Graphite..... "                                       | —           | 71,424             | Sand and gravel.... "                                            | 13,521,257 | 4,387,281          |
| Grindstones..... tons                                 | 887         | 46,478             | Slate..... "                                                     | 3,661,800  | 3,801,090          |
| Gypsum..... "                                         | 461,194     | 864,204            | Stone..... "                                                     | —          | —                  |
| Iron oxides (ochre).... "                             | 4,919       | 65,966             | <b>Totals, Other Structural Materials.....</b>                   | <b>—</b>   | <b>16,609,114</b>  |
| Magnetite dolomite.... "                              | —           | 382,927            | <b>Totals, Clay Products and Other Structural Materials.....</b> |            |                    |
| Magnesium sulphate. tons                              | 42          | 1,100              |                                                                  |            |                    |
| Mica..... "                                           | 998         | 97,071             |                                                                  |            |                    |
| Mineral waters... Imp. gal.                           | 97,340      | 18,013             |                                                                  |            |                    |
| Phosphate..... tons                                   | 81          | 683                |                                                                  |            |                    |
| Quartz..... "                                         | 272,075     | 489,872            |                                                                  |            |                    |
| Salt..... "                                           | 321,753     | 1,954,953          |                                                                  |            |                    |
| Silica brick..... M                                   | 2,611       | 93,268             |                                                                  |            |                    |
| Soapstone..... "                                      | —           | 44,297             |                                                                  |            |                    |
| Sodium carbonate.... tons                             | 244         | 1,920              |                                                                  |            |                    |
| Sodium sulphate..... "                                | 65,392      | 590,325            |                                                                  |            |                    |
| Sulphur <sup>3</sup> ..... "                          | 51,537      | 515,502            |                                                                  |            |                    |
| Talc..... "                                           | 13,959      | 136,480            |                                                                  |            |                    |
| Volcanic dust..... "                                  | 31          | 620                |                                                                  |            |                    |
| <b>Totals, Other Non-Metallic Minerals...</b>         | <b>—</b>    | <b>10,513,068</b>  | <b>Grand Totals.....</b>                                         | <b>—</b>   | <b>277,492,263</b> |
| <b>Totals, Non-Metallics...</b>                       | <b>—</b>    | <b>64,413,659</b>  |                                                                  |            |                    |

<sup>1</sup>According to Preliminary Report, March, 1935. All figures are subject to revision.<sup>2</sup>Exclusive of a small production of selenium, tellurium, radium and uranium, statistics of which cannot be published owing to there being less than three producers.<sup>3</sup>Sulphur content of pyrites shipped and estimated sulphur contained in sulphuric acid made from smelter gases.

**Volume of Mineral Production in Recent Years.**—An interesting comparison of the mineral production of the two years 1932 and 1933, as to quantities and values, is furnished in Table 3.

The percentage increase or decrease in quantity production of individual minerals is shown in Table 2, pp. 376-377, but, owing to the many different units in which the quantities of different minerals are expressed, the total volume of production from year to year is difficult to compare, while the wide variations in prices make comparisons of total values misleading. Table 3 constitutes an attempt to overcome these difficulties by working out what the values would have been in the later year if prices had remained the same as in the earlier, thus obtaining the increases or decreases due to changes in quantity alone; these are shown in the last column.

The total value of mineral production in 1932 decreased 16.1 p.c. from 1931. Reduced quantities accounted for a decrease of 15.5 p.c. The contraction was particularly severe in the quantity of clay products (51.8 p.c.), other structural materials (44.4 p.c.) and non-metallic minerals (24.7 p.c.). Mineral production in 1933 recovered from the low level of 1932 to a value approaching that of 1931. However, Table 3 shows that this recovery of value was made up in large measure of higher prices which accounted for an increase of 10.9 p.c. in value, while larger quantities accounted for an increase of only 4.9 p.c. The recovery from 1932 was largely in both the quantities and prices of metallic minerals. The quantities of clay products and other structural materials produced in 1933 were below the low levels established in 1932.

Mineral production in Canada reached its highest recorded total value of \$310,850,000 in 1929. During 1930 the production of metallic minerals increased still further in volume by 11.8 p.c., though declining prices reduced the total value of metal production, while non-metallic minerals and structural materials declined in both volume and value. By 1931 declining prices curtailed the volume of metallic minerals so that in that year and the next (1932) there were declines in both volume and value in all the major branches of mineral production. However, the production of metallic minerals in 1932 was still 3.7 p.c. greater in volume than in 1929, although there had been drastic declines in prices resulting in a reduction of 27.5 p.c. in total value. In that same year the production of fuels was 28.9 p.c., of other non-metallics 47.8 p.c., of clay products 72.1 p.c., and of other structural materials 57.6 p.c. smaller in volume than in 1929. The general decline in prices was arrested by 1933 and in that year the prices of metallic minerals and of non-metallics other than fuels showed a stronger trend. This was accompanied by an increased volume of production in both metallic and non-metallic minerals, although there were further declines in structural materials. Compared with 1929 the volume of production during 1933 was 12.3 p.c. greater for metals, 28 p.c. lower for fuels, 41.2 p.c. lower for other non-metallics, 80.1 p.c. lower for clay products and 68.7 p.c. lower for other structural materials. The grand total value of mineral production in 1933 was \$89,355,000 (28.7 p.c.) less than in 1929. The decline due to lower prices was 11.7 p.c., while that due to a generally smaller volume was 17 p.c., the increased volume of metals being more than offset by the contraction in other branches of the mineral industry. Preliminary figures for 1934 indicate a change

to an upward trend in structural materials, the most severely restricted branch of the industry, and a continuation of the upward trend in metals, fuels and other non-metallic minerals. The favorable change in the production of structural materials during the past year accompanied an increase in the activity of the construction industry.

**3.—Mineral Production of Canada, Compared as to Quantity and Value, calendar years 1932 and 1933. ("000" omitted.)**

| Item.                                           | Actual Value 1933. | Value at Prices of 1932. | Actual Value 1932. | Actual Increase (+) or Decrease (-). | Due to Higher (+) or Lower (-) Prices. | Due to Larger (+) or Smaller (-) Quantities. |
|-------------------------------------------------|--------------------|--------------------------|--------------------|--------------------------------------|----------------------------------------|----------------------------------------------|
|                                                 | \$                 | \$                       | \$                 | \$                                   | \$                                     | \$                                           |
| <b>METALLICS.</b>                               |                    |                          |                    |                                      |                                        |                                              |
| Arsenic.....                                    | 57                 | 60                       | 99                 | - 42                                 | - 3                                    | - 39                                         |
| Bismuth.....                                    | 81                 | 34                       | 7                  | + 74                                 | + 47                                   | + 27                                         |
| Cadmium.....                                    | 79                 | 146                      | 27                 | + 52                                 | + 67                                   | + 119                                        |
| Cobalt.....                                     | 598                | 560                      | 588                | + 10                                 | + 38                                   | + 28                                         |
| Copper.....                                     | 21,635             | 18,520                   | 15,294             | + 6,341                              | + 3,115                                | + 3,226                                      |
| Gold.....                                       | 60,968             | 60,968                   | 62,933             | - 1,965                              | -                                      | - 1,965                                      |
| Gold exchange equalization.                     | 23,383             | 8,273                    | 8,546              | + 14,837                             | + 15,110                               | + 273                                        |
| Lead.....                                       | 6,373              | 5,633                    | 4,510              | + 963                                | + 740                                  | + 223                                        |
| Nickel.....                                     | 20,130             | 19,715                   | 7,180              | + 12,950                             | + 415                                  | + 12,535                                     |
| Palladium, rhodium, etc.                        | 645                | 744                      | 902                | - 257                                | - 99                                   | - 158                                        |
| Platinum.....                                   | 858                | 995                      | 1,099              | - 241                                | - 137                                  | - 104                                        |
| Selenium.....                                   | 70                 | 70                       | -                  | + 70                                 | -                                      | + 70                                         |
| Silver.....                                     | 5,746              | 4,808                    | 5,811              | - 65                                 | + 938                                  | + 1,003                                      |
| Zinc.....                                       | 6,393              | 4,792                    | 4,145              | + 2,248                              | + 1,601                                | + 647                                        |
| Other metallics.....                            | -                  | -                        | 1                  | - 1                                  | -                                      | - 1                                          |
| <b>Totals, Metallic Minerals.....</b>           | <b>147,016</b>     | <b>125,318</b>           | <b>112,042</b>     | <b>+ 34,974</b>                      | <b>+ 21,698</b>                        | <b>+ 13,276</b>                              |
| <b>NON-METALLICS.</b>                           |                    |                          |                    |                                      |                                        |                                              |
| <i>Fuels.</i>                                   |                    |                          |                    |                                      |                                        |                                              |
| Coal.....                                       | 35,024             | 37,634                   | 37,118             | - 1,194                              | - 1,710                                | + 516                                        |
| Natural gas.....                                | 8,712              | 8,795                    | 8,899              | - 187                                | - 83                                   | + 104                                        |
| Petroleum, crude.....                           | 3,139              | 3,313                    | 3,023              | + 116                                | - 174                                  | + 290                                        |
| Peat.....                                       | 3                  | 3                        | 7                  | - 4                                  | -                                      | - 4                                          |
| <b>Totals, Fuels.....</b>                       | <b>47,778</b>      | <b>49,745</b>            | <b>49,047</b>      | <b>- 1,269</b>                       | <b>- 1,967</b>                         | <b>+ 698</b>                                 |
| <i>Other Non-Metallic Minerals.</i>             |                    |                          |                    |                                      |                                        |                                              |
| Asbestos.....                                   | 5,211              | 3,914                    | 3,040              | + 2,171                              | + 1,297                                | + 874                                        |
| Diatomite.....                                  | 37                 | 35                       | 30                 | + 7                                  | + 2                                    | + 5                                          |
| Feldspar.....                                   | 105                | 124                      | 82                 | + 23                                 | - 19                                   | + 42                                         |
| Graphite.....                                   | 18                 | 22                       | 18                 | -                                    | - 4                                    | + 8                                          |
| Grindstones.....                                | 22                 | 24                       | 16                 | + 6                                  | - 2                                    | + 8                                          |
| Gypsum.....                                     | 676                | 943                      | 1,080              | - 404                                | - 267                                  | + 137                                        |
| Iron oxides.....                                | 54                 | 38                       | 46                 | + 8                                  | + 16                                   | + 8                                          |
| Magnesite.....                                  | 360                | 299                      | 263                | + 97                                 | + 61                                   | + 36                                         |
| Mica.....                                       | 49                 | 21                       | 7                  | + 42                                 | + 28                                   | + 14                                         |
| Mineral water.....                              | 5                  | 4                        | 7                  | - 2                                  | + 1                                    | - 3                                          |
| Phosphate.....                                  | 6                  | 21                       | 12                 | + 6                                  | - 15                                   | + 9                                          |
| Quartz.....                                     | 298                | 272                      | 276                | + 22                                 | + 26                                   | + 4                                          |
| Salt.....                                       | 1,940              | 2,070                    | 1,948              | - 3                                  | + 130                                  | + 122                                        |
| Silica brick.....                               | 23                 | 29                       | 4                  | + 19                                 | + 6                                    | + 25                                         |
| Soapstone.....                                  | 48                 | 66                       | 47                 | + 1                                  | - 18                                   | + 19                                         |
| Sodium sulphate.....                            | 485                | 606                      | 272                | + 213                                | + 121                                  | + 334                                        |
| Sulphur.....                                    | 510                | 507                      | 470                | + 40                                 | + 3                                    | + 37                                         |
| Talc.....                                       | 143                | 141                      | 112                | + 31                                 | + 2                                    | + 29                                         |
| Other non-metallics.....                        | 14                 | 15                       | 11                 | + 3                                  | + 1                                    | + 4                                          |
| <b>Totals, Other Non-Metallic Minerals.....</b> | <b>10,004</b>      | <b>9,151</b>             | <b>7,741</b>       | <b>+ 2,263</b>                       | <b>+ 853</b>                           | <b>+ 1,410</b>                               |



**3.—Mineral Production of Canada, Compared as to Quantity and Value, calendar years 1932 and 1933 ('000' omitted.)—concluded.**

| Item.                                            | Actual<br>Value<br>1933. | Value<br>at Prices<br>of 1932. | Actual<br>Value<br>1932. | Actual<br>Increase<br>(+) or<br>Decrease<br>(-). | Due to<br>Higher<br>(+) or<br>Lower (-)<br>Prices. | Due to<br>Larger (+)<br>or Smaller<br>(-)<br>Quantities. |       |   |     |
|--------------------------------------------------|--------------------------|--------------------------------|--------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------------------------------|-------|---|-----|
|                                                  | \$                       | \$                             | \$                       | \$                                               | \$                                                 | \$                                                       |       |   |     |
| CLAY PRODUCTS AND OTHER<br>STRUCTURAL MATERIALS. |                          |                                |                          |                                                  |                                                    |                                                          |       |   |     |
| Clay Products.                                   |                          |                                |                          |                                                  |                                                    |                                                          |       |   |     |
| Brick—Soft mud/face.....                         | 42                       | 44                             | 109                      | — 67                                             | — 2                                                | — 65                                                     |       |   |     |
| process common...                                | 157                      | 177                            | 182                      | — 25                                             | — 20                                               | — 5                                                      |       |   |     |
| Stiff mud/face.....                              | 412                      | 432                            | 665                      | — 253                                            | — 20                                               | — 233                                                    |       |   |     |
| process common...                                | 357                      | 375                            | 639                      | — 282                                            | — 18                                               | — 264                                                    |       |   |     |
| (wire cut) face.....                             | 101                      | 98                             | 119                      | — 18                                             | +                                                  | — 21                                                     |       |   |     |
| Dry press common...                              | 44                       | 43                             | 47                       | — 3                                              | +                                                  | — 4                                                      |       |   |     |
| Fancy or ornamental                              | 8                        | 31                             | 6                        | +                                                | — 23                                               | +                                                        | 25    |   |     |
| Sewer brick.....                                 | 4                        | 5                              | 12                       | — 8                                              | — 1                                                | — 7                                                      |       |   |     |
| Fire brick.....                                  | 73                       | 70                             | 72                       | +                                                | +                                                  | — 2                                                      |       |   |     |
| Fireclay and other clay.....                     | 11                       | 17                             | 12                       | — 1                                              | — 3                                                | — 5                                                      |       |   |     |
| Fireclay blocks, etc.....                        | 81                       | 77                             | 75                       | +                                                | +                                                  | — 2                                                      |       |   |     |
| Hollow blocks.....                               | 160                      | 235                            | 422                      | — 262                                            | — 75                                               | — 187                                                    |       |   |     |
| Floor tile.....                                  | 14                       | 21                             | 21                       | — 7                                              | — 7                                                | —                                                        |       |   |     |
| Drain tile.....                                  | 223                      | 254                            | 187                      | +                                                | — 31                                               | — 67                                                     |       |   |     |
| Sewer pipe, copings, etc.....                    | 354                      | 404                            | 813                      | — 459                                            | — 50                                               | — 409                                                    |       |   |     |
| Pottery, glazed or not.....                      | 203                      | 226                            | 245                      | — 42                                             | — 23                                               | — 19                                                     |       |   |     |
| Other clay products.....                         | 19                       | 21                             | 24                       | — 5                                              | — 2                                                | — 3                                                      |       |   |     |
| Totals, Clay Products.                           | 2,263                    | 2,530                          | 3,650                    | — 1,387                                          | — 267                                              | — 1,120                                                  |       |   |     |
| Other Structural Materials.                      |                          |                                |                          |                                                  |                                                    |                                                          |       |   |     |
| Cement.....                                      | 4,537                    | 4,633                          | 6,931                    | — 2,394                                          | — 96                                               | — 2,298                                                  |       |   |     |
| Lime.....                                        | 2,432                    | 2,416                          | 2,394                    | +                                                | — 38                                               | — 22                                                     |       |   |     |
| Sand and gravel.....                             | 4,464                    | 3,633                          | 4,481                    | — 17                                             | — 831                                              | — 848                                                    |       |   |     |
| Stone.....                                       | 3,001                    | 3,126                          | 4,942                    | — 1,941                                          | — 125                                              | — 1,816                                                  |       |   |     |
| Totals, Other Structural Materials.....          | 14,434                   | 13,808                         | 18,748                   | — 4,314                                          | — 626                                              | — 4,940                                                  |       |   |     |
| Grand Totals.....                                | 221,495                  | 200,552                        | 191,228                  | +                                                | 30,267                                             | +                                                        | 9,324 |   |     |
| Increases per cent.....                          | —                        | —                              | —                        | +                                                | 15.8                                               | +                                                        | 10.9  | + | 4.9 |

**Subsection 2.—Provincial Distribution of Mineral Production.**

The principal mineral-producing province of Canada in recent years has been Ontario, which accounted for 41.6 p.c. of the Dominion total in 1932 and 49.8 p.c. in 1933. The rise in the price of gold has been especially favorable to Ontario's mineral production, while the Sudbury nickel-copper deposits are another outstanding feature in the mineral resources of the province. British Columbia holds second place in the value of minerals produced with 14 p.c. and 13.9 p.c. of the Dominion totals in 1932 and 1933, respectively. The mineral resources of British Columbia are probably more varied than those of any other province, since its production includes most of the important metals as well as substantial quantities of coal. Mineral production in Quebec has increased greatly in the post-war period, accounting for 12.8 p.c. of the total for Canada in 1932 and 12.7 p.c. in 1933. Whereas formerly non-metallics (especially asbestos) and structural materials made up nearly all of its mineral production, more than half the value is now made up of metals, particularly gold and copper. Nova Scotia and Alberta are the most important coal-producing provinces. Manitoba in recent years has been making a growing contribution to the production of gold, copper and zinc in the Dominion. The total value of mineral production in each of the provinces for each year since 1910 is given in Table 4.



## 5.—Mineral Production of Canada, by Provinces, calendar year 1932—continued.

| Mineral.                          | Nova Scotia.      | New Brunswick.   | Quebec.           | Ontario.          | Manitoba.        | Saskatchewan.    | Alberta.             | British Columbia. |
|-----------------------------------|-------------------|------------------|-------------------|-------------------|------------------|------------------|----------------------|-------------------|
| <b>METALLICS—con.</b>             |                   |                  |                   |                   |                  |                  |                      |                   |
| Nickel..... lb.                   | —                 | —                | —                 | 30,327,968        | —                | —                | —                    | —                 |
| \$                                | —                 | —                | —                 | 7,179,862         | —                | —                | —                    | —                 |
| Palladium, rhodium, etc. fine oz. | —                 | —                | —                 | 37,613            | —                | —                | —                    | —                 |
| \$                                | —                 | —                | —                 | 901,890           | —                | —                | —                    | —                 |
| Platinum... fine oz.              | —                 | —                | —                 | 27,284            | —                | —                | —                    | 59                |
| \$                                | —                 | —                | —                 | 1,097,021         | —                | —                | —                    | 2,372             |
| Silver..... fine oz.              | 47                | —                | 628,902           | 6,335,788         | 1,036,497        | 14               | 9                    | 7,293,462         |
| \$                                | 15                | —                | 199,184           | 2,006,048         | 328,275          | 4                | 3                    | 2,309,958         |
| Zinc..... lb.                     | —                 | —                | —                 | —                 | 41,736,600       | —                | —                    | 130,546,958       |
| \$                                | —                 | —                | —                 | —                 | 1,004,016        | —                | —                    | 3,140,438         |
| <b>Totals, Metals.</b>            | <b>22,649</b>     | <b>—</b>         | <b>13,914,085</b> | <b>69,823,880</b> | <b>7,571,444</b> | <b>262</b>       | <b>1,952</b>         | <b>18,705,615</b> |
| <b>NON-METALLICS.</b>             |                   |                  |                   |                   |                  |                  |                      |                   |
| <i>Fuels.</i>                     |                   |                  |                   |                   |                  |                  |                      |                   |
| Coal..... tons                    | 4,084,581         | 212,695          | —                 | —                 | 1,552            | 887,139          | 4,870,648            | 1,681,490         |
| \$                                | 15,167,793        | 794,168          | —                 | —                 | 3,684            | 1,229,449        | 13,526,309           | 6,392,801         |
| Natural gas M cu.ft.              | —                 | 662,452          | —                 | 7,386,154         | 600              | —                | 15,370,968           | —                 |
| \$                                | —                 | 326,191          | —                 | 4,719,297         | 180              | —                | 3,853,794            | —                 |
| Peat..... tons                    | —                 | —                | 762               | 2,486             | —                | —                | —                    | —                 |
| \$                                | —                 | —                | 2,286             | 5,307             | —                | —                | —                    | —                 |
| Petroleum, crude..... bbl.        | —                 | 6,408            | —                 | 130,343           | —                | —                | 907,661 <sup>1</sup> | —                 |
| \$                                | —                 | 14,332           | —                 | 247,468           | —                | —                | 2,760,792            | —                 |
| <b>Totals, Fuels.</b>             | <b>15,167,793</b> | <b>1,134,691</b> | <b>2,286</b>      | <b>4,972,072</b>  | <b>3,864</b>     | <b>1,229,449</b> | <b>20,140,895</b>    | <b>6,392,801</b>  |
| <i>Other Non-Metallics.</i>       |                   |                  |                   |                   |                  |                  |                      |                   |
| Asbestos..... tons                | —                 | —                | 122,977           | —                 | —                | —                | —                    | —                 |
| \$                                | —                 | —                | 3,039,721         | —                 | —                | —                | —                    | —                 |
| Bituminous sands..... tons        | —                 | —                | —                 | —                 | —                | —                | 343                  | —                 |
| \$                                | —                 | —                | —                 | —                 | —                | —                | 1,372                | —                 |
| Diatomite..... tons               | 1,438             | —                | —                 | 11                | —                | —                | —                    | 47                |
| \$                                | 28,760            | —                | —                 | 309               | —                | —                | —                    | 440               |
| Feldspar..... tons                | —                 | —                | 3,390             | 3,657             | —                | —                | —                    | —                 |
| \$                                | —                 | —                | 39,062            | 42,920            | —                | —                | —                    | —                 |
| Fluorspar..... tons               | —                 | —                | —                 | 32                | —                | —                | —                    | —                 |
| \$                                | —                 | —                | —                 | 464               | —                | —                | —                    | —                 |
| Graphite..... tons                | —                 | —                | —                 | 346               | —                | —                | —                    | —                 |
| \$                                | —                 | —                | —                 | 18,483            | —                | —                | —                    | —                 |
| Grindstones... tons               | 12                | 256              | —                 | —                 | —                | —                | —                    | 60                |
| \$                                | 433               | 11,802           | —                 | —                 | —                | —                | —                    | 3,500             |
| Gypsum..... tons                  | 341,508           | 38,019           | —                 | 35,655            | 12,719           | —                | —                    | 10,728            |
| \$                                | 398,861           | 297,520          | —                 | 186,175           | 113,789          | —                | —                    | 84,084            |
| Iron oxides (ochre)..... tons     | —                 | —                | 5,017             | —                 | —                | —                | —                    | 223               |
| \$                                | —                 | —                | 44,161            | —                 | —                | —                | —                    | 2,000             |
| Magnesian dolomite.... \$         | —                 | —                | 262,860           | —                 | —                | —                | —                    | —                 |
| Mica..... lb.                     | —                 | —                | 81,137            | 537,212           | —                | —                | —                    | —                 |
| \$                                | —                 | —                | 4,076             | 2,752             | —                | —                | —                    | —                 |
| Mineral waters. Imp. gal.         | —                 | —                | 15,506            | 61,208            | —                | —                | —                    | —                 |
| \$                                | —                 | —                | 4,697             | 2,473             | —                | —                | —                    | —                 |
| Phosphate... tons                 | —                 | —                | 1,316             | —                 | —                | —                | —                    | —                 |
| \$                                | —                 | —                | 12,333            | —                 | —                | —                | —                    | —                 |
| Quartz..... tons                  | —                 | —                | 20,123            | 66,135            | 87,253           | —                | —                    | 15,621            |
| \$                                | —                 | —                | 71,645            | 93,574            | 102,493          | —                | —                    | 8,435             |
| Salt..... tons                    | 31,897            | —                | —                 | 231,138           | 508              | —                | —                    | —                 |
| \$                                | 150,708           | —                | —                 | 1,789,751         | 7,092            | —                | —                    | —                 |
| Silica brick... M                 | —                 | —                | —                 | 93                | —                | —                | —                    | —                 |
| \$                                | —                 | —                | 46,751            | 4,304             | —                | —                | —                    | —                 |
| Soapstone..... \$                 | —                 | —                | —                 | —                 | —                | —                | —                    | —                 |
| Sodium carbonate... tons          | —                 | —                | —                 | —                 | —                | —                | —                    | 495               |
| \$                                | —                 | —                | —                 | —                 | —                | —                | —                    | 5,450             |
| Sodium sulphate..... \$           | —                 | —                | —                 | —                 | —                | 271,736          | —                    | —                 |

<sup>1</sup> Includes a small production from the Fort Norman Well in N.W.T.

## 5.—Mineral Production of Canada, by Provinces, calendar year 1932—concluded.

| Mineral.                                             | Nova Scotia.   | New Brunswick. | Quebec.          | Ontario.         | Manitoba.      | Saskatchewan.  | Alberta.       | British Columbia. |
|------------------------------------------------------|----------------|----------------|------------------|------------------|----------------|----------------|----------------|-------------------|
| <i>Other Non-Metallics—con.</i>                      |                |                |                  |                  |                |                |                |                   |
| Sulphur <sup>1</sup> ..... tons                      | -              | -              | 17,954           | 3,332            | -              | -              | -              | 31,886            |
| \$                                                   | -              | -              | 133,838          | 33,320           | -              | -              | -              | 302,856           |
| Talc..... tons                                       | -              | -              | -                | 12,064           | -              | -              | -              | 39                |
| \$                                                   | -              | -              | -                | 111,585          | -              | -              | -              | 702               |
| Volcanic dust..... tons                              | -              | -              | -                | -                | -              | 180            | -              | -                 |
| \$                                                   | -              | -              | -                | -                | -              | 3,600          | -              | -                 |
| <b>Totals, Other Non-Metallies \$</b>                | <b>578,762</b> | <b>309,322</b> | <b>3,659,144</b> | <b>2,286,110</b> | <b>223,324</b> | <b>275,336</b> | <b>1,372</b>   | <b>407,467</b>    |
| <b>CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS.</b> |                |                |                  |                  |                |                |                |                   |
| <i>Clay Products.</i>                                |                |                |                  |                  |                |                |                |                   |
| Brick—                                               |                |                |                  |                  |                |                |                |                   |
| Soft mud process—                                    |                |                |                  |                  |                |                |                |                   |
| Face..... M                                          | 160            | -              | 300              | 5,716            | -              | -              | -              | 12                |
| \$                                                   | 2,008          | -              | 3,000            | 103,390          | -              | -              | -              | 184               |
| Common.. M                                           | 540            | 1,269          | 18               | 6,525            | 1,337          | 660            | 697            | 1,755             |
| \$                                                   | 6,780          | 18,180         | 912              | 98,828           | 18,166         | 6,929          | 8,345          | 24,232            |
| Stiff mud process (wire cut)—                        |                |                |                  |                  |                |                |                |                   |
| Face..... M                                          | 347            | 487            | 13,180           | 15,315           | 320            | 115            | 277            | 156               |
| \$                                                   | 6,754          | 13,628         | 300,649          | 323,077          | 7,472          | 3,127          | 6,386          | 3,663             |
| Common.. M                                           | 2,229          | 520            | 28,063           | 7,816            | 416            | 220            | 989            | 500               |
| \$                                                   | 31,206         | 7,949          | 448,470          | 122,905          | 6,861          | 2,256          | 11,648         | 7,627             |
| Dry press—                                           |                |                |                  |                  |                |                |                |                   |
| Face..... M                                          | -              | -              | 319              | 4,667            | -              | 6              | 310            | 220               |
| \$                                                   | -              | -              | 9,563            | 97,897           | -              | 138            | 3,876          | 8,073             |
| Common.. M                                           | -              | -              | -                | 1,522            | -              | -              | 2,726          | -                 |
| \$                                                   | -              | -              | -                | 24,070           | -              | -              | 22,692         | -                 |
| Fancy or ornamental brick..... M                     | -              | -              | 89               | 36               | -              | -              | -              | -                 |
| \$                                                   | -              | -              | 4,447            | 1,790            | -              | -              | -              | -                 |
| Sewer brick.. M                                      | -              | -              | -                | 638              | -              | -              | -              | 5                 |
| \$                                                   | -              | -              | -                | 12,071           | -              | -              | -              | 85                |
| Paving brick..... M                                  | -              | -              | -                | -                | -              | -              | -              | 6                 |
| \$                                                   | -              | -              | -                | -                | -              | -              | -              | 153               |
| Firebrick... M                                       | -              | -              | -                | -                | -              | 309            | 11             | 1,260             |
| \$                                                   | -              | -              | -                | -                | -              | 15,200         | 547            | 56,010            |
| Fireclay..... tons                                   | 45             | 50             | -                | -                | -              | 415            | -              | 480               |
| \$                                                   | 280            | 1,956          | -                | -                | -              | 3,111          | -              | 6,479             |
| Fireclay blocks and shapes.. \$                      | 277            | 836            | -                | -                | -              | 66,688         | -              | 7,408             |
| Structural tile—                                     |                |                |                  |                  |                |                |                |                   |
| Hollow blocks..... tons                              | 3,162          | 134            | 20,170           | 18,941           | 1,167          | 1,322          | 2,106          | 1,116             |
| \$                                                   | 30,208         | 1,120          | 193,335          | 144,471          | 11,965         | 11,781         | 17,055         | 11,737            |
| Roofing tile..... No.                                | -              | -              | -                | 48,939           | -              | -              | -              | -                 |
| \$                                                   | -              | -              | -                | 3,900            | -              | -              | -              | -                 |
| Floor tile (quarries) sq. ft.                        | -              | -              | -                | 94,316           | -              | -              | -              | -                 |
| \$                                                   | -              | -              | -                | 21,502           | -              | -              | -              | -                 |
| Drain tile.... M                                     | 71             | 3              | 545              | 5,886            | 103            | -              | 130            | 647               |
| \$                                                   | 2,974          | 120            | 20,609           | 135,004          | 5,309          | -              | 1,322          | 21,332            |
| Sewer pipe, copings, flue linings, etc..... \$       | 92,070         | -              | 83,566           | 466,371          | -              | -              | 112,810        | 58,407            |
| Pottery, glazed or unglazed.... \$                   | -              | 24,362         | -                | 67,866           | -              | 4              | 144,903        | 7,726             |
| Bentonite..... tons                                  | -              | -              | -                | -                | -              | -              | -              | 7                 |
| \$                                                   | -              | -              | -                | -                | -              | -              | -              | 176               |
| Other clay products.... \$                           | -              | -              | -                | 16,366           | -              | 505            | -              | 3,061             |
| <b>Totals, Clay Products... \$</b>                   | <b>172,557</b> | <b>68,151</b>  | <b>1,064,551</b> | <b>1,639,508</b> | <b>49,773</b>  | <b>109,739</b> | <b>329,584</b> | <b>216,355</b>    |

<sup>1</sup> Sulphur content of pyrites shipped and estimated sulphur contained in sulphuric acid made from waste smelter gases.



5.—Mineral Production of Canada, by Provinces, calendar year 1932—concluded.

| Mineral.                                        | Nova Scotia.      | New Brunswick.   | Quebec.           | Ontario.          | Manitoba.        | Saskatchewan.    | Alberta.          | British Columbia. |
|-------------------------------------------------|-------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|
| <i>Other Structural Materials.</i>              |                   |                  |                   |                   |                  |                  |                   |                   |
| Cement..... brl.                                | -                 | -                | 2,210,584         | 1,599,342         | 242,112          | -                | 193,571           | 253,112           |
| \$                                              | -                 | -                | 3,155,702         | 2,288,975         | 549,594          | -                | 399,922           | 536,528           |
| Lime..... tons                                  | 6,533             | 11,572           | 93,813            | 166,703           | 18,235           | -                | 6,642             | 17,152            |
| \$                                              | 35,534            | 109,134          | 587,901           | 1,273,230         | 172,110          | -                | 56,577            | 160,001           |
| Sand and gravel..... tons                       | 423,487           | 569,150          | 3,458,128         | 6,994,447         | 440,309          | 362,841          | 734,067           | 1,487,513         |
| \$                                              | 136,677           | 447,239          | 893,896           | 1,971,239         | 188,974          | 66,942           | 250,025           | 525,604           |
| Slate..... tons                                 | -                 | -                | -                 | -                 | -                | -                | -                 | 250               |
| \$                                              | -                 | -                | -                 | -                 | -                | -                | -                 | 3,750             |
| Stone..... tons                                 | 34,661            | 16,805           | 2,246,825         | 1,905,138         | 78,423           | -                | 1,428             | 407,642           |
| \$                                              | 87,307            | 154,918          | 2,360,901         | 1,655,016         | 299,282          | -                | 2,985             | 378,052           |
| <b>Totals, Other Structural Materials... \$</b> | <b>259,518</b>    | <b>711,341</b>   | <b>6,998,400</b>  | <b>7,188,460</b>  | <b>1,209,960</b> | <b>66,942</b>    | <b>709,509</b>    | <b>1,603,935</b>  |
| <b>Grand Totals. \$</b>                         | <b>16,198,573</b> | <b>2,223,505</b> | <b>24,512,470</b> | <b>79,509,239</b> | <b>8,714,459</b> | <b>1,681,697</b> | <b>21,183,079</b> | <b>26,767,522</b> |

5A.—Mineral Production of Canada, by Provinces, calendar year 1933.

NOTE.—The mineral production of Yukon and the Northwest Territories during the calendar year 1933 was as follows in quantities and values: Gold 39,493 fine oz., \$1,129,500 (including premium); lead 3,099,505 pounds, \$74,128; silver 2,227,476 fine oz., \$842,717; coal 862 tons, \$3,670; and petroleum 4,608 brl., \$23,037; total \$2,073,052. Radium and uranium salts were produced in Canada during 1933 from ores mined in the N.W.T., but statistics pertaining to these minerals are not available for publication. For Dominion totals see pp. 376-377.

| Mineral.                                       | Nova Scotia.  | New Brunswick. | Quebec.           | Ontario.          | Manitoba.        | Saskatchewan.  | Alberta.     | British Columbia. |
|------------------------------------------------|---------------|----------------|-------------------|-------------------|------------------|----------------|--------------|-------------------|
| <b>METALLICS.</b>                              |               |                |                   |                   |                  |                |              |                   |
| Arsenic } lb.                                  | -             | -              | -                 | 1,468,022         | -                | -              | -            | -                 |
| (As <sub>2</sub> O <sub>3</sub> ) } \$         | -             | -              | -                 | 56,534            | -                | -              | -            | -                 |
| Bismuth..... lb.                               | -             | -              | -                 | 7,580             | -                | -              | -            | 70,723            |
| \$                                             | -             | -              | -                 | 3,731             | -                | -              | -            | 77,795            |
| Cadmium..... \$                                | -             | -              | -                 | -                 | -                | -              | -            | 78,733            |
| Chromite..... tons                             | -             | -              | 30                | -                 | -                | -              | -            | -                 |
| \$                                             | -             | -              | 343               | -                 | -                | -              | -            | -                 |
| Cobalt..... lb.                                | -             | -              | -                 | 466,702           | -                | -              | -            | -                 |
| \$                                             | -             | -              | -                 | 597,752           | -                | -              | -            | -                 |
| Copper..... lb.                                | -             | -              | 69,943,882        | 145,504,720       | 38,163,181       | 3,223,941      | -            | 43,146,724        |
| \$                                             | -             | -              | 5,214,177         | 10,118,847        | 2,844,989        | 240,338        | -            | 3,216,502         |
| Gold..... fine oz.                             | 1,382         | -              | 382,886           | 2,155,519         | 125,310          | 5,400          | 324          | 238,995           |
| \$                                             | 28,568        | -              | 7,914,956         | 44,558,531        | 2,590,388        | 111,628        | 6,698        | 4,940,465         |
| Gold exchange equalization \$                  | 10,957        | -              | 3,035,583         | 17,089,312        | 993,478          | 42,812         | 2,569        | 1,894,792         |
| Lead..... lb.                                  | -             | -              | -                 | 29,910            | -                | -              | -            | 263,345,776       |
| \$                                             | -             | -              | -                 | 692               | -                | -              | -            | 6,298,178         |
| Nickel..... lb.                                | -             | -              | -                 | 83,264,658        | -                | -              | -            | -                 |
| \$                                             | -             | -              | -                 | 20,130,480        | -                | -              | -            | -                 |
| Palladium, rhodium, iridium, etc..... fine oz. | -             | -              | -                 | 31,009            | -                | -              | -            | -                 |
| \$                                             | -             | -              | -                 | 645,043           | -                | -              | -            | -                 |
| Platinum.. fine oz.                            | -             | -              | -                 | 24,746            | -                | -              | -            | 40                |
| \$                                             | -             | -              | -                 | 856,190           | -                | -              | -            | 1,400             |
| Selenium..... lb.                              | -             | -              | 22,131            | 26,090            | -                | -              | -            | -                 |
| \$                                             | -             | -              | 16,600            | 53,745            | -                | -              | -            | -                 |
| Silver..... fine oz.                           | 104           | -              | 471,419           | 4,535,680         | 1,101,578        | 114,604        | 32           | 6,737,057         |
| \$                                             | 39            | -              | 178,351           | 1,715,975         | 416,758          | 43,358         | 12           | 2,548,817         |
| Zinc..... lb.                                  | -             | -              | -                 | 43,516,037        | 2,789,683        | 89,563         | -            | 152,826,264       |
| \$                                             | -             | -              | -                 | 1,397,082         | -                | -              | -            | 4,906,487         |
| <b>Totals, Metallics... \$</b>                 | <b>39,564</b> | <b>-</b>       | <b>16,360,010</b> | <b>95,826,832</b> | <b>8,242,695</b> | <b>527,699</b> | <b>9,279</b> | <b>23,963,169</b> |

## 5A.—Mineral Production of Canada, by Provinces, calendar year 1933—continued.

| Mineral.                                          | Nova.<br>Scotia.  | New<br>Brunswick. | Quebec.          | Ontario.         | Mani-<br>toba. | Saskat-<br>chewan. | Alberta.          | British<br>Columbia. |
|---------------------------------------------------|-------------------|-------------------|------------------|------------------|----------------|--------------------|-------------------|----------------------|
| <b>NON-METALLICS.</b>                             |                   |                   |                  |                  |                |                    |                   |                      |
| <i>Fuels.</i>                                     |                   |                   |                  |                  |                |                    |                   |                      |
| Coal.....tons                                     | 4,557,590         | 312,303           | -                | -                | 3,880          | 927,649            | 4,718,788         | 1,382,272            |
| \$                                                | 15,969,793        | 1,041,744         | -                | -                | 9,214          | 1,285,996          | 12,307,258        | 5,306,287            |
| Natural<br>gas...M cu. ft.                        | -                 | 618,033           | -                | 7,166,659        | 600            | -                  | 15,352,811        | -                    |
| \$                                                | -                 | 302,706           | -                | 4,523,085        | 180            | -                  | 3,886,263         | -                    |
| Peat.....tons                                     | -                 | -                 | 681              | 450              | -              | -                  | -                 | -                    |
| \$                                                | -                 | -                 | 2,549            | 900              | -              | -                  | -                 | -                    |
| Petroleum,<br>crude.....brl.                      | -                 | 8,835             | -                | 136,058          | -              | -                  | 995,832           | -                    |
| \$                                                | -                 | 18,111            | -                | 253,486          | -              | -                  | 2,844,157         | -                    |
| <b>Totals, Fuels</b> \$                           | <b>15,969,793</b> | <b>1,362,561</b>  | <b>2,549</b>     | <b>4,777,471</b> | <b>9,394</b>   | <b>1,285,996</b>   | <b>19,037,678</b> | <b>5,306,287</b>     |
| <i>Other<br/>Non-Metallics.</i>                   |                   |                   |                  |                  |                |                    |                   |                      |
| Asbestos.....tons                                 | -                 | -                 | 158,367          | -                | -              | -                  | -                 | -                    |
| \$                                                | -                 | -                 | 5,211,177        | -                | -              | -                  | -                 | -                    |
| Barytes.....tons                                  | -                 | -                 | -                | 20               | -              | -                  | -                 | -                    |
| \$                                                | -                 | -                 | -                | 60               | -              | -                  | -                 | -                    |
| Bituminous<br>sands.....tons                      | -                 | -                 | -                | -                | -              | -                  | 466               | -                    |
| \$                                                | -                 | -                 | -                | -                | -              | -                  | 1,662             | -                    |
| Diatomite.....tons                                | 1,747             | -                 | -                | 28               | -              | -                  | -                 | 14                   |
| \$                                                | 34,940            | -                 | -                | 1,298            | -              | -                  | -                 | 410                  |
| Feldspar.....tons                                 | -                 | -                 | 6,183            | 4,387            | 88             | -                  | -                 | -                    |
| \$                                                | -                 | -                 | 59,283           | 45,350           | 484            | -                  | -                 | -                    |
| Fluorspar.....tons                                | -                 | -                 | -                | 73               | -              | -                  | -                 | -                    |
| \$                                                | -                 | -                 | -                | 1,064            | -              | -                  | -                 | -                    |
| Graphite.....tons                                 | -                 | -                 | 43               | 362              | -              | -                  | -                 | -                    |
| \$                                                | -                 | -                 | 2,222            | 16,145           | -              | -                  | -                 | -                    |
| Grindstones.....tons                              | 21                | 277               | -                | -                | -              | -                  | -                 | 200                  |
| \$                                                | 868               | 12,051            | -                | -                | -              | -                  | -                 | 9,000                |
| Gypsum.....tons                                   | 315,948           | 30,391            | -                | 24,460           | 6,830          | -                  | -                 | 5,107                |
| \$                                                | 363,528           | 88,500            | -                | 112,319          | 65,471         | -                  | -                 | 46,004               |
| Iron oxides<br>(ochre).....tons                   | -                 | -                 | 4,192            | -                | -              | -                  | -                 | 165                  |
| \$                                                | -                 | -                 | 51,965           | -                | -              | -                  | -                 | 1,485                |
| Magnetitic<br>dolomite... \$                      | -                 | -                 | 360,128          | -                | -              | -                  | -                 | -                    |
| Magnesium<br>sulphate.....tons                    | -                 | -                 | -                | -                | -              | -                  | -                 | 120                  |
| \$                                                | -                 | -                 | -                | -                | -              | -                  | -                 | 3,000                |
| Mica.....lb.                                      | -                 | -                 | 511,467          | 1,331,430        | -              | -                  | -                 | 45,500               |
| \$                                                | -                 | -                 | 39,060           | 9,371            | -              | -                  | -                 | 853                  |
| Mineral<br>waters Imp.gal.                        | -                 | -                 | 9,024            | 29,794           | -              | -                  | -                 | -                    |
| \$                                                | -                 | -                 | 3,094            | 2,347            | -              | -                  | -                 | -                    |
| Phosphate.....tons                                | -                 | -                 | 105              | -                | -              | -                  | -                 | 2,109                |
| \$                                                | -                 | -                 | 805              | -                | -              | -                  | -                 | 4,670                |
| Quartz.....tons                                   | 1,017             | -                 | 28,294           | 66,562           | 7,736          | 59,506             | -                 | 22,668               |
| \$                                                | 1,447             | -                 | 109,533          | 86,146           | 23,507         | 59,506             | -                 | 17,681               |
| Salt.....tons                                     | 34,278            | -                 | -                | 244,107          | 1,499          | 231                | -                 | -                    |
| \$                                                | 161,889           | -                 | -                | 1,755,087        | 18,388         | 4,510              | -                 | -                    |
| Silica brick... M                                 | 463               | -                 | -                | 183              | -              | -                  | -                 | -                    |
| \$                                                | 15,834            | -                 | -                | 7,351            | -              | -                  | -                 | -                    |
| Soapstone.... \$                                  | -                 | -                 | 47,680           | -                | -              | -                  | -                 | -                    |
| Sodium<br>carbonate.....tons                      | -                 | -                 | -                | -                | -              | -                  | -                 | 559                  |
| \$                                                | -                 | -                 | -                | -                | -              | -                  | -                 | 5,773                |
| Sodium sul-<br>phate..... \$                      | -                 | -                 | -                | -                | -              | 485,416            | -                 | -                    |
| Sulphur.....tons                                  | -                 | -                 | 19,167           | 8,196            | -              | -                  | -                 | 30,010               |
| \$                                                | -                 | -                 | 146,261          | 81,960           | -              | -                  | -                 | 282,078              |
| Talc.....tons                                     | -                 | -                 | -                | 15,114           | -              | -                  | -                 | 67                   |
| \$                                                | -                 | -                 | -                | 142,134          | -              | -                  | -                 | 1,022                |
| Volcanic dust tons                                | -                 | -                 | -                | -                | -              | 118                | -                 | -                    |
| \$                                                | -                 | -                 | -                | -                | -              | 2,360              | -                 | -                    |
| <b>Totals, Other<br/>Non-<br/>Metallics...</b> \$ | <b>578,506</b>    | <b>100,551</b>    | <b>6,031,208</b> | <b>2,260,632</b> | <b>107,850</b> | <b>551,792</b>     | <b>1,662</b>      | <b>372,336</b>       |

<sup>1</sup> Sulphur content of pyrites shipped and estimated sulphur contained in sulphuric acid made from waste smelter gases.

## 5A.—Mineral Production of Canada, by Provinces, calendar year 1933—continued.

| Mineral.                                      | Nova Scotia. | New Brunswick. | Quebec. | Ontario.  | Manitoba. | Saskatchewan. | Alberta. | British Columbia. |
|-----------------------------------------------|--------------|----------------|---------|-----------|-----------|---------------|----------|-------------------|
| CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS. |              |                |         |           |           |               |          |                   |
| <i>Clay Products.</i>                         |              |                |         |           |           |               |          |                   |
| Brick—                                        |              |                |         |           |           |               |          |                   |
| Soft mud process—                             |              |                |         |           |           |               |          |                   |
| Face..... M                                   | 60           | —              | —       | 2,292     | —         | 11            | —        | 119               |
| \$                                            | 900          | —              | —       | 38,360    | —         | 333           | —        | 2,144             |
| Common. M                                     | 480          | 678            | 1,241   | 6,796     | 1,091     | 23            | —        | 2,080             |
| \$                                            | 5,680        | 9,992          | 9,862   | 87,644    | 16,035    | 369           | —        | 27,187            |
| Stiff mud process (wire cut)—                 |              |                |         |           |           |               |          |                   |
| Face..... M                                   | 422          | 118            | 7,234   | 11,660    | 70        | 17            | 64       | 17                |
| \$                                            | 10,233       | 3,676          | 153,990 | 240,738   | 1,683     | 624           | 1,078    | 345               |
| Common. M                                     | 1,671        | 411            | 17,483  | 3,191     | —         | 62            | 711      | 365               |
| \$                                            | 20,046       | 6,972          | 270,483 | 46,337    | —         | 641           | 6,542    | 5,477             |
| Dry press—                                    |              |                |         |           |           |               |          |                   |
| Face..... M                                   | —            | —              | 601     | 3,302     | —         | 8             | 476      | 157               |
| \$                                            | —            | —              | 18,166  | 72,194    | —         | 185           | 4,557    | 6,150             |
| Common. M                                     | —            | —              | —       | 1,834     | —         | —             | 2,082    | —                 |
| \$                                            | —            | —              | —       | 29,357    | —         | —             | 15,020   | —                 |
| Fancy or ornamental brick..... M              | —            | —              | —       | 6         | —         | —             | 624      | —                 |
| \$                                            | —            | —              | —       | 387       | —         | —             | 7,437    | —                 |
| Sewer brick M                                 | —            | —              | —       | 242       | —         | —             | —        | 1                 |
| \$                                            | —            | —              | —       | 3,683     | —         | —             | —        | 10                |
| Paving brick..... M                           | —            | —              | —       | —         | —         | —             | —        | 1                 |
| \$                                            | —            | —              | —       | —         | —         | —             | —        | 42                |
| Fire brick. M                                 | —            | —              | —       | —         | —         | 391           | 12       | 1,144             |
| \$                                            | —            | —              | —       | —         | —         | 19,705        | 506      | 53,015            |
| Fireclay and other clay. tons                 | 22           | 4              | —       | —         | —         | 371           | —        | 1,024             |
| \$                                            | 220          | 157            | —       | —         | —         | 2,902         | —        | 7,994             |
| Fireclay blocks and shapes                    | 75           | —              | —       | 90        | —         | 64,381        | —        | 16,079            |
| Structural tile—                              |              |                |         |           |           |               |          |                   |
| Hollow blocks..... tons                       | 1,759        | 65             | 7,676   | 8,196     | 44        | 201           | 628      | 8,178             |
| \$                                            | 17,590       | 631            | 66,197  | 60,438    | 532       | 2,210         | 5,637    | 6,824             |
| Roofing tile No.                              | —            | —              | —       | 20,469    | —         | —             | —        | —                 |
| \$                                            | —            | —              | —       | 1,136     | —         | —             | —        | —                 |
| Floor tile (quarries) sq. ft.                 | —            | —              | —       | 81,808    | —         | —             | 9,687    | —                 |
| \$                                            | —            | —              | —       | 12,490    | —         | —             | 1,807    | —                 |
| Drain tile.... M                              | 107          | 1              | 533     | 8,746     | 45        | —             | 22       | 603               |
| \$                                            | 3,237        | 64             | 15,420  | 179,015   | 2,716     | —             | 1,249    | 21,128            |
| Sewer pipe, copings, flue linings, etc.....   | 67,519       | —              | 45,890  | 185,048   | —         | —             | 35,793   | 20,208            |
| Pottery, glazed or unglazed...\$              | —            | 25,425         | —       | 52,650    | —         | —             | 118,747  | 5,678             |
| Bentonite..... tons                           | —            | —              | —       | —         | —         | —             | —        | 55                |
| \$                                            | —            | —              | —       | —         | —         | —             | —        | 1,363             |
| Other clay products....                       | —            | —              | 80      | 15,012    | —         | 857           | —        | 561               |
| Totals, Clay Products.. \$                    | 125,500      | 46,917         | 580,088 | 1,024,579 | 20,966    | 92,207        | 198,373  | 174,205           |

**5A.—Mineral Production of Canada, by Provinces, calendar year 1933—concluded.**

| Mineral.                                       | Nova Scotia.      | New Brunswick.   | Quebec.           | Ontario.           | Manitoba.        | Saskatchewan.    | Alberta.          | British Columbia. |
|------------------------------------------------|-------------------|------------------|-------------------|--------------------|------------------|------------------|-------------------|-------------------|
| <i>Other Structural Materials.</i>             |                   |                  |                   |                    |                  |                  |                   |                   |
| Cement.....bbl.                                | —                 | —                | 1,517,555         | 1,095,845          | 129,540          | —                | 149,206           | 115,286           |
| \$                                             | —                 | —                | 2,128,900         | 1,587,812          | 295,351          | —                | 299,530           | 225,342           |
| Lime.....tons                                  | 3,914             | 16,849           | 110,334           | 146,193            | 18,032           | —                | 7,501             | 20,717            |
| \$                                             | 30,160            | 134,786          | 647,558           | 1,227,197          | 167,640          | —                | 62,037            | 162,928           |
| Sand and gravel.....tons                       | 282,228           | 496,961          | 3,356,232         | 5,967,994          | 288,214          | 104,400          | 281,122           | 961,672           |
| \$                                             | 126,031           | 331,497          | 942,429           | 2,517,230          | 108,828          | 19,731           | 85,577            | 332,962           |
| Slate.....tons                                 | —                 | —                | —                 | —                  | —                | —                | —                 | 250               |
| \$                                             | —                 | —                | —                 | —                  | —                | —                | —                 | 3,750             |
| Stone.....tons                                 | 41,449            | 16,714           | 1,342,493         | 1,253,906          | 33,190           | —                | 1,550             | 250,272           |
| \$                                             | 96,629            | 131,370          | 1,448,740         | 983,268            | 74,227           | —                | 8,817             | 253,525           |
| <b>Totals, Other Structural Materials.. \$</b> | <b>252,820</b>    | <b>597,653</b>   | <b>5,167,627</b>  | <b>6,315,507</b>   | <b>646,046</b>   | <b>19,731</b>    | <b>455,961</b>    | <b>978,507</b>    |
| <b>Grand Totals \$</b>                         | <b>16,966,183</b> | <b>2,107,682</b> | <b>28,141,482</b> | <b>110,203,021</b> | <b>9,026,951</b> | <b>2,477,425</b> | <b>19,702,953</b> | <b>30,794,504</b> |

### Section 3.—Industrial Statistics of Mines and Minerals— Capital, Labour, Wages, etc., in Principal Industries.

Annual statistical reports on the mineral production of Canada have been published for many years, first by the Geological Survey, later by the Mines Branch of the Department of Mines and, since 1921, by the Dominion Bureau of Statistics. Prior to that year the annual statistics of mines were confined chiefly to a presentation of the quantity production of each of the minerals and their value at average market prices for the year. The scope of the statistics now includes a general review of the principal mineral industries, such as the copper-gold, silver-lead-zinc and nickel-copper industries, as well as a section on metallurgical works. The additional data include such features as capital employed, numbers of employees, wages and salaries paid, and gross and net production. The aim has been to extend the mining statistics beyond a summary of the production of individual minerals by approaching the subject from the standpoint of industrial organization, definitely illustrating the place which mining holds in the scheme of Canadian productive enterprise.

The values produced by the metallic industries given in Tables 6 and 7 are those reported by the operating companies, and are in each case the settlements received for shipments by mine operators and the additional value obtained when the smelting of these ores is completed in Canada. The totals indicate more nearly the actual return to the different industries than do the values for the several metals in Table 2 of this chapter, where, in the cases of copper, lead, zinc and silver, the values are computed by using the average prices for the year in the principal metal markets. Furthermore, the production figures of Table 2 include all quantities shipped from the mines, while metals absorbed in new metallurgical operations or remaining in stock at smelters and refineries are not included in the industrial figures of Tables 6 and 7. On the other hand, some imported ores and concentrates are treated in Canadian non-ferrous smelting and refining works. The net value of the products



of these plants includes, therefore, the net value of the metals recovered from these imported ores and to this extent the net sales shown in Tables 6 and 7 include products not of Canadian origin. Furthermore, up to and including 1931 the total value of Canadian mineral production as shown in Table 1 was computed with gold valued at the standard price of \$20.671834 per fine oz., and thereafter at the same price plus the estimated amount of exchange equalization paid the producer, whereas the totals given in Tables 6 and 7 include the actual receipts for gold produced as reported by the producers. For these reasons the industrial statistics are somewhat at variance with the figures representing the computed value of metallic mineral production.

The total net value of products of the fuel industries in Table 7 is less than the total production of fuels in Table 2, because the net value of products of the industries is confined to that for which the operators receive some economic return, while the production of the fuel commodities includes all of those commodities produced, whether the producer actually receives payment in any form for them or not. Thus in coal mining, the industrial values in Table 7 include only coal sold, supplied to employees for domestic consumption, or used in making coke and briquettes, whereas the figures of coal production as shown in Table 2 include, in addition to the above, coal consumed for power and other purposes in the coal-mining operations and also the difference between coal put on the bank and lifted from the bank. Petroleum producers have a larger monetary return than the actual value of the petroleum produced because many oil wells also produce large quantities of natural gas. On the other hand, the natural gas industry receives a smaller return than the total value of all natural gas produced because some of the gas is produced by the petroleum industry, because of leakage or other loss in piping gas to the consumers, and because a small amount of natural gas is produced by private individuals or groups from their own wells for their own consumption, without any industrial organization intervening between producer and consumer.

For other non-metallic minerals (if the small production of peat normally included with fuels is deducted) and clay products and structural materials, returns to the producing industries are the same in each case as the total value of the mineral commodities produced.

**The Growth of the Mining Industry in Recent Years.**—Annual publication of industrial statistics of the mining industry, showing capital employed, the number of employees, the salaries and wages paid, the cost of fuel and electricity, and the net value of the products did not commence until 1921. In connection with the item of capital, operators are requested to report *only the capital actually invested in the enterprises*, including (1) present value of lands, buildings, plant, machinery and tools, (2) cost of materials on hand, supplies, finished products and ore on dump, and (3) cash, trading and operating accounts and bills receivable. It should be specially noted that no estimate of undeveloped ores is included in the capital. Indeed, capital expenditures in mining ventures are frequently very difficult to designate. For instance, purely exploratory workings should be charged to current expenses, but if these exploratory workings open up new ore resources and become the channel by which such ore is utilized, such workings become part of the productive plant and as such their cost is an item of capital. In these circumstances, the actual amount of capital employed in mining enterprises is uncertain and the figures of capital should be used with such reservations in mind.

The substantial growth of the mining industry in Canada during the post-war years is established by the summary statistics of Table 6. From 1922 to 1929—a period of slowly declining prices—the output increased by 72 p.c., capital investment by 76 p.c., employment by 53 p.c., and the salaries and wages paid by 65 p.c. Progress was most rapid in the metallic mineral industries, where the expansion in net production amounted to 170 p.c. with proportionate increases in capital and employment. The period from 1922 to 1929 was marked by a rising cycle of activity in construction. This is reflected in the expansion of industries engaged in the production of clay products and other structural materials. The output of this group of industries increased by 47 p.c. during the period, while, within the group, progress was much greater in industries producing cement, gravel and stone than in the clay products industries. The group of non-metallic mineral industries remained relatively stationary in contrast to the other two main groups during this period of rapid expansion. This may be attributed to the fact that coal mining is the predominant industry in the non-metallic group and, under increasing competition from oil fuels and hydro-electric power, did not participate in the general industrial expansion of the period.

Since 1929 the mining industry in Canada has been affected by the world-wide economic disturbances which have so greatly influenced industries in all countries. It is instructive to trace the effects of the depression in the industrial statistics of mining. The course of the depression was accompanied by a very drastic decline in the prices of most of the principal metals, especially copper, lead, zinc and silver. Indeed, while prices of these metals at the beginning of 1935 have risen somewhat above their low points, they are still at a low level. In the case of gold, on the other hand, since 1931 the price has risen to a level about 69 p.c. above that formerly prevailing. Under the influence of these price changes, the value of the net production of the metallic mineral industries declined by 27 p.c. from 1929 to 1932, with a decline of 29 p.c. in employees, 30 p.c. in salaries and wages paid and 24 p.c. in the value of fuel and electricity used. But, since the higher price for gold stimulated its production and the readjustment of costs stabilized the base metal industries, metal production in 1933 showed a good recovery, the net sales in 1933 being only 8 p.c. below those of 1929, employees 18 p.c. below, salaries and wages 25 p.c. below, and the cost of fuel and electricity 8 p.c. above 1929. While industrial statistics for 1934 are not yet available, the production figures for this latest year indicate a metal production valued at about 18 p.c. more than the former peak year 1929. Doubtless in reaching this new record the influence of gold is important through increased production, higher value, and its association with other metals, especially copper. However, in 1934, not only gold but nickel, copper, lead and zinc were all produced in Canada in larger quantities than ever before, from which it must be concluded that the producers of these metals are able to operate profitably at even the low prices prevailing for copper, lead and zinc, and that a return to former average price levels would find the Canadian metal-mining industry firmly established on a much larger scale than ever before.

Among the non-metallic industries the most important is coal mining. During the depression, the demand for coal declined owing to reduced requirements for fuel in industrial and transportation activities. Similarly the demand for asbestos and gypsum has been affected by the lower level of industrial and construction operations. Salt has been an exception to the general rule, as its production has been well maintained throughout. Indeed, in 1932 and 1933 the net sales of the salt-

producing industry were about 23 p.c. above those of 1929. Taking the group of non-metallic industries as a whole, net sales declined by 32 p.c. from 1929 to 1932, employment by 21 p.c. and salaries and wages by 36 p.c., and, while net sales increased slightly in 1933 from the low point of 1932, the decline continued in employment and total remuneration of employees. Production in 1934 showed a decided improvement, probably indicating that costs have been so readjusted within the group as to place production again on a profitable basis and ready to expand with increasing demand.

The production of clay products and other structural materials is directly dependent upon construction activities within Canada. During the early years of the depression, these activities were partly maintained by governmental relief projects and by the carrying to completion of some large operations which had commenced before 1930. As a result, construction reached its lowest level in Canada during 1933, and the group of industries producing clay products and other structural materials was at a lower level of operations in that year than in any other year recorded since 1921. From 1929 to 1933 there was a decline of 71 p.c. in net sales, 69 p.c. in employees, 74 p.c. in salaries and wages and 76 p.c. in expenditures for fuel and electricity, a large item in the cost of production in these industries. However, construction was more active in Canada in 1934 than in 1933 (see p. 512) and this increased activity was accompanied by a welcome change to a rising trend in the production of clay products and other structural materials.

**6.—Summary of the Principal Statistics of the Mineral Industries in Canada, by Groups, 1921-33, and by Provinces, 1932 and 1933.**

| Group and Year.        | Firms. <sup>1</sup> | Capital Employed. | Employees. | Salaries and Wages. | Fuel and Electricity.  | Net Sales. <sup>2</sup> |
|------------------------|---------------------|-------------------|------------|---------------------|------------------------|-------------------------|
| METALLIC MINERALS.     | No.                 | \$                | No.        | \$                  | \$                     | \$                      |
| 1921.....              | 378                 | 200,007,449       | 12,133     | 16,232,998          | 3,914,615 <sup>3</sup> | 48,133,974              |
| 1922.....              | 408                 | 165,975,343       | 13,138     | 18,361,667          | 1,649,856 <sup>3</sup> | 60,347,043              |
| 1923.....              | 339                 | 240,889,284       | 16,472     | 25,794,032          | 7,904,820              | 68,612,936              |
| 1924.....              | 296                 | 281,828,285       | 19,809     | 29,692,896          | 7,788,506              | 86,825,610              |
| 1925.....              | 323                 | 290,534,965       | 20,664     | 32,732,782          | 8,721,063              | 105,700,838             |
| 1926.....              | 396                 | 320,248,840       | 23,742     | 36,033,798          | 10,023,885             | 115,939,119             |
| 1927.....              | 479                 | 335,708,206       | 26,343     | 40,284,887          | 10,411,397             | 121,062,811             |
| 1928.....              | 508                 | 435,327,646       | 28,582     | 44,687,131          | 9,756,573              | 140,770,772             |
| 1929.....              | 485                 | 427,498,173       | 31,125     | 50,279,511          | 11,221,987             | 163,050,366             |
| 1930.....              | 325                 | 427,439,265       | 30,633     | 48,851,303          | 11,323,313             | 136,994,693             |
| 1931.....              | 312                 | 390,908,034       | 25,434     | 41,829,288          | 10,340,523             | 132,382,514             |
| 1932.....              | 319                 | 269,180,464       | 21,931     | 34,983,704          | 8,551,463              | 119,790,072             |
| 1933.....              | 389                 | 406,998,952       | 25,443     | 37,937,871          | 7,084,253 <sup>4</sup> | 150,145,926             |
| NON-METALLIC MINERALS. |                     |                   |            |                     |                        |                         |
| 1921.....              | 718                 | 265,701,593       | 37,713     | 52,292,357          | 4,881,440 <sup>3</sup> | 87,842,682              |
| 1922.....              | 742                 | 232,888,769       | 37,958     | 45,225,900          | 4,028,784 <sup>3</sup> | 82,976,794              |
| 1923.....              | 925                 | 243,105,227       | 39,060     | 53,428,264          | 6,422,352              | 91,936,732              |
| 1924.....              | 935                 | 259,360,944       | 33,831     | 41,933,916          | 5,788,095              | 71,796,009              |
| 1925.....              | 959                 | 253,023,646       | 31,560     | 40,032,918          | 5,685,294              | 71,851,801              |
| 1926.....              | 967                 | 274,109,129       | 36,166     | 44,379,854          | 6,535,609              | 85,240,144              |
| 1927.....              | 922                 | 279,737,591       | 37,949     | 48,273,491          | 5,402,897              | 85,205,431              |
| 1928.....              | 862                 | 295,725,531       | 39,086     | 54,089,011          | 5,824,098              | 89,312,961              |
| 1929.....              | 873                 | 317,302,496       | 40,080     | 55,602,313          | 6,033,773              | 93,596,188              |
| 1930.....              | 901                 | 328,776,596       | 38,355     | 47,852,675          | 5,785,483              | 80,063,355              |
| 1931.....              | 843                 | 325,168,359       | 34,075     | 36,031,233          | 4,870,674              | 61,629,210              |
| 1932.....              | 911                 | 302,294,837       | 31,654     | 29,918,319          | 4,497,602              | 54,389,856              |
| 1933.....              | 978                 | 293,860,141       | 30,532     | 27,309,607          | 4,695,254              | 54,912,205              |

For footnotes see end of table, p. 392.



**6.—Summary of the Principal Statistics of the Mineral Industries in Canada, by Groups, 1921-33, and by Provinces, 1932 and 1933—concluded.**

| Group and Year.                               | Firms. <sup>1</sup> | Capital Employed.  | Employees.    | Salaries and Wages. | Fuel and Electricity.         | Net Sales. <sup>2</sup> |
|-----------------------------------------------|---------------------|--------------------|---------------|---------------------|-------------------------------|-------------------------|
| CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS. | No.                 | \$                 | No.           | \$                  | \$                            | \$                      |
| 1921.....                                     | 657                 | 93,805,112         | 10,958        | 10,636,285          | 5,489,127 <sup>3</sup>        | 34,737,428              |
| 1922.....                                     | 794                 | 94,830,711         | 11,153        | 11,438,934          | 5,417,924 <sup>3</sup>        | 39,534,741              |
| 1923.....                                     | 1,031               | 94,842,501         | 11,420        | 12,112,581          | 6,930,164                     | 37,751,381              |
| 1924.....                                     | 983                 | 91,254,717         | 10,688        | 11,160,609          | 6,010,861                     | 35,380,869              |
| 1925.....                                     | 1,072               | 88,516,534         | 12,866        | 12,337,418          | 6,159,443                     | 37,649,234              |
| 1926.....                                     | 1,064               | 94,392,039         | 18,023        | 13,803,161          | 6,958,810                     | 39,959,398              |
| 1927.....                                     | 949                 | 98,627,203         | 20,382        | 15,662,514          | 7,145,990                     | 44,809,419              |
| 1928.....                                     | 975                 | 110,914,805        | 21,780        | 17,177,880          | 7,851,330                     | 49,737,181              |
| 1929.....                                     | 1,028               | 122,220,364        | 23,897        | 18,608,687          | 9,495,825                     | 58,534,834              |
| 1930.....                                     | 1,252               | 131,204,998        | 20,222        | 17,271,354          | 7,957,397                     | 53,727,465              |
| 1931.....                                     | 1,242               | 125,983,627        | 13,300        | 14,108,778          | 6,298,151                     | 44,158,295              |
| 1932.....                                     | 1,191               | 113,736,272        | 7,885         | 6,870,026           | 3,427,419                     | 22,398,283              |
| 1933.....                                     | 1,190               | 109,496,612        | 7,359         | 4,784,327           | 2,245,397                     | 16,696,687              |
| <b>Grand Totals, Mineral Industries—</b>      |                     |                    |               |                     |                               |                         |
| 1921.....                                     | 1,741               | 559,514,154        | 60,804        | 79,161,640          | 14,285,182 <sup>3</sup>       | 170,714,084             |
| 1922.....                                     | 1,944               | 493,694,823        | 62,249        | 75,026,501          | 11,096,564 <sup>3</sup>       | 182,858,578             |
| 1923.....                                     | 2,295               | 578,837,012        | 66,952        | 91,234,877          | 21,257,336                    | 198,301,049             |
| 1924.....                                     | 2,214               | 632,443,946        | 64,328        | 82,787,421          | 19,587,452                    | 194,002,488             |
| 1925.....                                     | 2,354               | 632,075,145        | 65,090        | 85,103,118          | 20,565,800                    | 215,201,873             |
| 1926.....                                     | 2,427               | 688,750,008        | 77,931        | 94,216,813          | 23,518,394                    | 241,138,661             |
| 1927.....                                     | 2,350               | 714,073,000        | 84,674        | 104,220,892         | 22,960,284                    | 251,077,661             |
| 1928.....                                     | 2,345               | 841,967,982        | 89,448        | 115,954,022         | 23,432,001                    | 279,820,914             |
| 1929.....                                     | 2,386               | 867,021,033        | 95,102        | 124,490,511         | 26,751,585                    | 315,181,388             |
| 1930.....                                     | 2,478               | 887,420,859        | 89,200        | 113,975,332         | 25,066,193                    | 270,785,513             |
| 1931.....                                     | 2,397               | 842,960,020        | 72,809        | 91,969,299          | 21,509,348                    | 238,170,019             |
| <b>1932—Canada.....</b>                       | <b>2,421</b>        | <b>685,211,573</b> | <b>61,470</b> | <b>71,772,049</b>   | <b>16,476,484</b>             | <b>196,578,211</b>      |
| Nova Scotia.....                              | —                   | 63,415,735         | 13,706        | 11,302,801          | 2,047,874                     | 15,049,226              |
| New Brunswick.....                            | —                   | 4,998,656          | 1,480         | 1,123,080           | 96,922                        | 2,185,174               |
| Quebec.....                                   | —                   | 121,200,895        | 7,694         | 8,198,379           | 4,243,362                     | 32,834,588              |
| Ontario.....                                  | —                   | 244,250,088        | 16,376        | 24,412,126          | 5,447,055                     | 85,868,259              |
| Manitoba.....                                 | —                   | 21,349,000         | 1,730         | 2,106,017           | 479,993                       | 11,396,818              |
| Saskatchewan.....                             | —                   | 6,013,271          | 924           | 748,782             | 152,433                       | 1,626,307               |
| Alberta.....                                  | —                   | 124,484,909        | 9,692         | 10,476,449          | 804,137                       | 20,701,075              |
| British Columbia.....                         | —                   | 91,469,101         | 9,582         | 12,642,830          | 3,094,145                     | 25,071,738              |
| Yukon.....                                    | —                   | 8,029,918          | 286           | 761,585             | 110,563                       | 1,845,026               |
| <b>1933—Canada.....</b>                       | <b>2,557</b>        | <b>810,355,705</b> | <b>63,334</b> | <b>70,031,805</b>   | <b>14,024,904<sup>4</sup></b> | <b>221,754,818</b>      |
| Nova Scotia.....                              | —                   | 59,727,371         | 13,915        | 9,852,765           | 2,219,236                     | 15,744,102              |
| New Brunswick.....                            | —                   | 5,185,718          | 1,629         | 1,402,114           | 83,493                        | 2,088,331               |
| Quebec.....                                   | —                   | 137,663,451        | 8,629         | 8,621,984           | 2,953,543                     | 33,888,539              |
| Ontario.....                                  | —                   | 310,789,173        | 17,306        | 25,600,168          | 4,891,054                     | 109,060,404             |
| Manitoba.....                                 | —                   | 30,130,497         | 1,379         | 1,847,251           | 234,202                       | 8,433,130               |
| Saskatchewan.....                             | —                   | 12,368,385         | 1,265         | 1,111,001           | 238,898                       | 2,614,337               |
| Alberta.....                                  | —                   | 112,666,472        | 9,057         | 9,463,382           | 805,577                       | 18,945,255              |
| British Columbia.....                         | —                   | 129,665,431        | 9,845         | 11,455,946          | 2,557,066                     | 29,464,365              |
| Yukon.....                                    | —                   | 12,159,207         | 309           | 677,194             | 41,835                        | 1,516,355               |

<sup>1</sup>This figure not given by provinces in recent years. <sup>2</sup>Gross value less freight and treatment charges and less value of ores charged in the case of smelters. <sup>3</sup>Electricity was not included in 1921 and 1922.

<sup>4</sup>Fuel and electricity used for metallurgical purposes and not included above consisted of: bituminous coal from Canadian mines, 244,701 tons valued at \$1,657,991; imported bituminous, 109,005 tons at \$578,272; coke, 129,605 tons at \$1,165,432; fuel oil, 7,218,294 gal. at \$327,775; wood, 5,489 cords at \$28,963; manufactured gas, 45,886 M cu ft. at \$1,998; electricity, 380,331,833 k.w.h. at \$1,232.104; and other fuel at \$22,079; total value, \$5,017,614.

**The Principal Mineral Industries.**—A summary of the industrial statistics of the principal mineral industries operating in Canada in 1932 and 1933 is presented in Table 7. Coal mining has the largest labour force and the largest labour bill. In fact, in the years 1932 and 1933 salaries and wages in coal mining amounted



to 71 p.c. and 66 p.c. of the value of net sales. This was probably an abnormally high proportion owing to declining output and prices and abnormally low profits during those difficult years. Auriferous quartz mining was second to coal mining with about half the number of employees. Its salaries and wages bill was nearly as great, however, as that of coal mining, since employment is much less subject to seasonal fluctuations. The smelting and refining industry was third in the number of its employees and in salaries and wages paid.

**7.—Summary of the Principal Statistics of the Mineral Industries of Canada, by Industries, 1932 and 1933.**

| Industry and Year.                        | Firms.     | Capital Employed.  | Employees.    | Salaries and Wages. | Fuel and Electricity. | Net Sales. <sup>1</sup> |
|-------------------------------------------|------------|--------------------|---------------|---------------------|-----------------------|-------------------------|
| METALLIC MINERALS.                        | No.        | \$                 | No.           | \$                  | \$                    | \$                      |
| Alluvial gold.....1932                    | 120        | 7,306,130          | 373           | 665,711             | 38,840                | 1,211,018               |
| .....1933                                 | 73         | 10,402,705         | 454           | 704,151             | 35,165                | 1,218,260               |
| Auriferous quartz.....1932                | 100        | 58,167,335         | 10,442        | 17,686,584          | 3,031,494             | 58,645,772              |
| .....1933                                 | 214        | 158,599,931        | 12,823        | 20,536,012          | 3,330,137             | 69,151,535              |
| Copper-gold-silver.....1932               | 28         | 14,793,372         | 3,076         | 3,770,627           | 463,463               | 11,143,759              |
| .....1933                                 | 28         | 40,228,626         | 2,841         | 3,938,778           | 404,625               | 7,707,270               |
| Silver-cobalt.....1932                    | 17         | 3,005,872          | 369           | 551,255             | 124,478               | 1,735,708               |
| .....1933                                 | 12         | 3,365,755          | 242           | 322,281             | 83,565                | 1,071,602               |
| Silver-lead-zinc.....1932                 | 36         | 11,921,067         | 1,084         | 1,719,186           | 358,649               | 5,156,365               |
| .....1933                                 | 42         | 17,705,026         | 1,100         | 1,501,012           | 284,277               | 7,569,867               |
| Nickel-copper.....1932                    | 3          | 23,137,628         | 1,210         | 1,776,190           | 96,670                | 3,174,208               |
| .....1933                                 | 4          | 30,048,125         | 1,599         | 2,518,181           | 152,984               | 6,108,325               |
| Miscellaneous metals....1932              | 5          | 1,140,200          | 34            | 35,181              | 2,475                 | 1,113                   |
| .....1933                                 | 5          | 563,500            | 24            | 14,275              | 1,178                 | 343                     |
| Smelting and refining...1932              | 10         | 149,708,860        | 5,343         | 8,778,970           | 4,435,394             | 38,722,129 <sup>2</sup> |
| .....1933                                 | 11         | 146,085,284        | 6,360         | 8,403,181           | 2,792,322             | 57,318,734 <sup>2</sup> |
| <b>Totals, Metallic Minerals.....1932</b> | <b>319</b> | <b>269,180,464</b> | <b>21,931</b> | <b>34,983,704</b>   | <b>8,551,463</b>      | <b>119,790,072</b>      |
| <b>.....1933</b>                          | <b>389</b> | <b>406,998,952</b> | <b>25,443</b> | <b>37,937,671</b>   | <b>7,084,253</b>      | <b>150,145,926</b>      |
| <b>NON-METALLIC MINERALS.</b>             |            |                    |               |                     |                       |                         |
| <i>Fuels.</i>                             |            |                    |               |                     |                       |                         |
| Coal.....1932                             | 455        | 131,879,671        | 26,900        | 25,042,766          | 3,066,601             | 34,984,922              |
| .....1933                                 | 496        | 125,740,790        | 25,375        | 22,378,736          | 3,214,632             | 33,805,148              |
| Natural gas.....1932                      | 160        | 75,197,066         | 1,351         | 1,738,949           | 32,912                | 8,188,966               |
| .....1933                                 | 174        | 80,937,170         | 1,367         | 1,650,815           | 53,994                | 7,725,951               |
| Petroleum.....1932                        | 175        | 48,568,562         | 655           | 776,163             | 120,842               | 3,467,538               |
| .....1933                                 | 175        | 36,972,528         | 718           | 773,734             | 136,278               | 3,562,170               |
| <b>Totals, Fuels.....1932</b>             | <b>790</b> | <b>255,635,299</b> | <b>28,936</b> | <b>27,557,881</b>   | <b>3,220,355</b>      | <b>46,641,426</b>       |
| <b>.....1933</b>                          | <b>845</b> | <b>243,650,483</b> | <b>27,460</b> | <b>24,803,285</b>   | <b>3,404,904</b>      | <b>45,093,269</b>       |
| <i>Other Non-Metallic Minerals.</i>       |            |                    |               |                     |                       |                         |
| Abrasives (natural)....1932               | 10         | 679,865            | 36            | 26,471              | 2,422                 | 48,844                  |
| .....1933                                 | 9          | 58,556             | 19            | 7,796               | 1,034                 | 60,927                  |
| Asbestos.....1932                         | 7          | 30,081,362         | 1,409         | 1,156,315           | 827,303               | 3,039,721               |
| .....1933                                 | 7          | 31,173,325         | 1,629         | 1,279,093           | 771,327               | 5,211,177               |
| Feldspar and quartz....1932               | 33         | 936,177            | 120           | 91,003              | 13,391                | 358,129                 |
| .....1933                                 | 28         | 1,143,792          | 146           | 117,037             | 26,327                | 402,937                 |
| Gypsum.....1932                           | 11         | 8,054,148          | 478           | 368,484             | 122,926               | 1,080,379               |
| .....1933                                 | 14         | 8,769,564          | 415           | 263,279             | 91,518                | 675,822                 |
| Iron oxides.....1932                      | 4          | 206,863            | 26            | 22,909              | 5,993                 | 46,161                  |
| .....1933                                 | 4          | 156,551            | 22            | 15,631              | 5,755                 | 53,450                  |
| Mica.....1932                             | 5          | 119,670            | 9             | 7,864               | 50                    | 6,828                   |
| .....1933                                 | 15         | 312,396            | 41            | 25,007              | 80                    | 49,284                  |

<sup>1</sup> For footnotes see end of table, p. 394.

# 7.—Summary of the Principal Statistics of the Mineral Industries of Canada, by Industries, 1932 and 1933—concluded.

| Industry and Year.                                             | Firms.       | Capital Employed.  | Employees.    | Salaries and Wages. | Fuel and Electricity. | Net Sales. <sup>1</sup> |
|----------------------------------------------------------------|--------------|--------------------|---------------|---------------------|-----------------------|-------------------------|
|                                                                | No.          | \$                 | No.           | \$                  | \$                    | \$                      |
| <b>NON-METALLIC MINERALS—concluded.</b>                        |              |                    |               |                     |                       |                         |
| <i>Other Non-Metallic Minerals—concluded.</i>                  |              |                    |               |                     |                       |                         |
| Salt.....1932                                                  | 7            | 3,805,008          | 345           | 455,049             | 176,836               | 1,947,551               |
| .....1933                                                      | 9            | 3,708,358          | 400           | 473,420             | 191,373               | 1,939,874               |
| Talc and soapstone.....1932                                    | 5            | 703,532            | 85            | 76,577              | 17,930                | 159,038                 |
| .....1933                                                      | 7            | 684,375            | 103           | 83,060              | 26,424                | 190,836                 |
| Miscellaneous <sup>2</sup> .....1932                           | 35           | 2,072,913          | 182           | 155,166             | 110,396               | 1,061,779               |
| .....1933                                                      | 40           | 4,202,736          | 297           | 241,999             | 176,512               | 1,234,629               |
| Totals, Other Non-Metallic Minerals.....1932                   | 117          | 46,659,538         | 2,688         | 2,360,438           | 1,277,247             | 7,748,430               |
| .....1933                                                      | 133          | 50,209,653         | 3,072         | 2,506,322           | 1,290,350             | 9,818,936               |
| <b>Totals, Non-Metallic Minerals.....1932</b>                  | <b>907</b>   | <b>302,291,837</b> | <b>31,651</b> | <b>29,918,319</b>   | <b>4,497,602</b>      | <b>54,389,856</b>       |
| .....1933                                                      | <b>978</b>   | <b>293,860,141</b> | <b>30,532</b> | <b>27,309,607</b>   | <b>4,695,254</b>      | <b>54,912,205</b>       |
| <b>CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS.</b>           |              |                    |               |                     |                       |                         |
| <i>Clay Products.</i>                                          |              |                    |               |                     |                       |                         |
| Brick, tile and sewer pipe.....1932                            | 143          | 24,910,020         | 1,622         | 1,469,270           | 569,515               | 3,405,295               |
| .....1933                                                      | 141          | 23,760,177         | 1,195         | 1,011,747           | 366,685               | 2,062,388               |
| Stoneware and pottery.....1932                                 | 5            | 437,562            | 118           | 107,316             | 10,288                | 244,923                 |
| .....1933                                                      | 5            | 451,703            | 117           | 90,146              | 10,636                | 200,447                 |
| Totals, Clay Products.....1932                                 | 148          | 25,347,582         | 1,740         | 1,576,586           | 579,803               | 3,650,218               |
| .....1933                                                      | 146          | 24,211,880         | 1,312         | 1,101,893           | 377,321               | 2,262,835               |
| <i>Other Structural Materials.</i>                             |              |                    |               |                     |                       |                         |
| Cement.....1932                                                | 6            | 55,294,814         | 1,216         | 1,344,772           | 1,701,125             | 6,930,721               |
| .....1933                                                      | 6            | 54,403,379         | 740           | 781,746             | 982,087               | 4,536,935               |
| Lime.....1932                                                  | 53           | 6,823,948          | 677           | 575,072             | 535,433               | 2,394,537               |
| .....1933                                                      | 54           | 8,920,042          | 696           | 480,833             | 473,125               | 2,432,306               |
| Sand and gravel.....1932                                       | 688          | 9,542,446          | 1,743         | 1,322,201           | 190,477               | 4,480,596               |
| .....1933                                                      | 696          | 6,203,113          | 2,726         | 1,169,079           | 129,410               | 4,464,285               |
| Stone.....1932                                                 | 296          | 16,727,481         | 2,509         | 2,051,395           | 420,581               | 4,942,211               |
| .....1933                                                      | 288          | 15,758,198         | 1,885         | 1,250,776           | 283,454               | 3,000,326               |
| Totals, Other Structural Materials.....1932                    | 1,043        | 88,388,690         | 6,145         | 5,293,440           | 2,847,616             | 18,748,065              |
| .....1933                                                      | 1,044        | 85,284,732         | 6,047         | 3,682,434           | 1,868,076             | 14,433,852              |
| <b>Totals, Structural Materials and Clay Products.....1932</b> | <b>1,191</b> | <b>113,736,272</b> | <b>7,885</b>  | <b>6,870,026</b>    | <b>3,427,419</b>      | <b>22,398,283</b>       |
| .....1933                                                      | <b>1,190</b> | <b>109,496,612</b> | <b>7,859</b>  | <b>4,784,327</b>    | <b>2,245,397</b>      | <b>16,696,687</b>       |
| <b>Grand Totals, Mineral Industries.....1932</b>               | <b>2,417</b> | <b>685,211,573</b> | <b>61,470</b> | <b>71,772,049</b>   | <b>16,476,484</b>     | <b>196,578,211</b>      |
| .....1933                                                      | <b>2,557</b> | <b>810,355,705</b> | <b>63,334</b> | <b>70,031,805</b>   | <b>14,021,904</b>     | <b>221,754,813</b>      |

<sup>1</sup>Value of shipments by mine operators and of products sold by their metallurgical works, less estimated cost of ores, concentrates, matte, etc., treated, irrespective of their origin. The major part of the value of ores treated is included as products of mines and mills, but there is necessarily a lag between production or ores and sales of smelter products, while some imported ores are also treated in Canadian smelters.

<sup>2</sup>Value added by smelting and refining.

<sup>3</sup>Includes a small production of peat, normally included in fuels.

## Section 4.—Production of Metallic Minerals.

### Subsection 1.—Gold.

Canada has been a gold-producing country for over 75 years. During the last half of the 19th century production was chiefly from placer operations in British Columbia and Yukon, while during the present century there has been a rapid growth of production from lode mining both of auriferous quartz and of gold in association with other metals. Gold production in Canada attained its earlier maximum in 1900, when the Yukon production reached its highest point and 1,350,057 fine oz. of gold were produced. The quantities and values of gold produced in Canada are given by provinces for 1911 and subsequent years in Tables 8 and 9. The preliminary official estimate for 1934 is 2,964,400 fine oz.

In 1931 the value of gold produced in Canada exceeded that of coal for the first time. Producers of gold have benefited in recent years not only from the general decline in the prices of other commodities with a consequent reduction in their operating costs, as well as an increase in the purchasing power of their product, but also from the rise in the price of gold in the world market. The more outstanding events associated with this rise in price may be briefly outlined. The United Kingdom suspended specie payments on Sept. 21, 1931, and the gold exchange value of the pound sterling declined rapidly. The Canadian Government first assumed control of gold exports by a licensing system and later undertook to purchase all new gold bullion produced in the Dominion, paying the producer a premium over the standard price to equalize the exchange difference. The United States departed from the gold standard on April 19, 1933, and on Jan. 31, 1934, the United States' Treasury announced that it would buy gold at \$35 per fine oz.; thus establishing a new par of  $15\frac{5}{16}$  grains for the U.S. dollar. On June 15, 1934, the Canadian Parliament passed legislation instituting a special tax on gold produced in Canada. This tax applied only to producing companies which had paid dividends continuously since the beginning of 1933, and consisted of a levy of 25 p.c. on the premium value of gold produced from ore mined in Canada, provided that the tax did not reduce the price received by the producer below \$30 per fine oz. Deductions for income tax were allowed.<sup>1</sup>

In the circumstances outlined above gold has ranked first among the minerals of Canada since 1931. Under the stimulus of higher prices prospecting for gold has been more active during the past two years than ever before. Favourable results from these activities, with new mines coming into production and expansion in numerous producing mines, give every prospect for a continued increase in gold production.

**Ontario.**—Although gold was first discovered in 1866 in Hastings Co. and was later found and worked at many points from there to the lake of the Woods in the west, a distance of roughly 900 miles, no permanent gold-mining industry was established until 1911, when the Porcupine Camp was opened up. Soon afterwards the discovery of gold in the Kirkland Lake area, on what is now the Wright-Hargreaves Mine, led to the development of this second camp. The Lake Shore Mine in this camp has latterly had a larger production than that of any other Canadian gold mine. Active prospecting and development have been carried on during recent years in a number of Precambrian areas in Ontario. Properties brought into production include the Howey and Moss gold mines in the northwestern part of the province, the Ashley and Young-Davidson in Matatchewan, and the Little Long

<sup>1</sup> In the Budget of Mar. 22, 1935, this form of tax was relinquished, and compensating arrangements were made in the income tax regulations providing for reduced depletion allowances to mines to offset anticipated loss in revenue.

Lac, St. Anthony, Casey Summit, Pickle Crow, J. M. Consolidated, Bidgood and Central Patricia in other areas. During 1934 the older gold mines of the Porcupine, Kirkland Lake and Michipicoten areas experienced a successful year with increased tonnages treated in all three camps. New gold discoveries in the Sturgeon River area resulted in a colorful "rush" of old-time proportions.

**British Columbia.**—The discovery of gold in paying quantities was an epoch-making event in the history of British Columbia. In the late '50's, alluvial gold was discovered along the Thompson river and in 1858 the famous Fraser River rush took place. The extraordinarily rich deposits of Williams and Lightning creeks, in the Cariboo district, were discovered in 1860 and three years later the area had a production of alluvial gold valued at \$4,000,000. In the northern part of the province, the Atlin division of the Cassiar district was prospected in 1892. Then the introduction of lode mining resulted in a rapidly increasing production until 1902, when previous records were surpassed by an output of more than 288,000 fine oz. Except for the maximum output of 297,459 fine oz. in 1913, the record of 1902 was not again equalled until 1934. Though the bulk of the gold obtained in the Cordilleran region has been derived from the placer deposits of the central portion of the region from Yukon at the north almost to the International Boundary at the south, yet a large amount, averaging 178,039 fine oz. between 1913 and 1921, was obtained by lode mining, largely of the copper-gold ores of the Rossland and Yale Boundary districts. The copper concentrates of the Britannia Mine also contain gold, as does the blister copper made at Anyox. The output of gold in British Columbia has been in part maintained by the successful operation of the Premier Mine on the Portland canal and recently by the mines of the Bridge River district, including the Pioneer, Bralorne and others from which production is expanding. Placer prospecting in British Columbia experienced a distinct revival during the 1932 and 1933 seasons and resulted in pronounced activity, especially in the Stikine, Liard, Cariboo and Atlin districts.

**Yukon.**—The discovery of gold in the Yukon River valley was reported in 1869, and bar-mining on the tributaries of the Yukon was conducted with increasing profit between 1881 and 1886. Ten years later, rich discoveries were made in creeks of the Klondike river, a right-bank tributary joining the Yukon at what is now Dawson city, and one of the greatest rushes in history was made to this locality. The richest streams in the district were Bonanza creek and its principal tributary, the Eldorado. There is still a considerable production of gold from alluvial operations principally in the form of dredging.

**Nova Scotia.**—Gold was discovered in Nova Scotia in 1860. Two years after the discovery gold valued at nearly \$142,000 was recovered from the quartz veins; an annual, though in recent years declining, output has been reported since that time. However, in 1933, gold mining activities were again more widespread with the industry showing signs of a general revival.

**Quebec.**—Although Quebec produced gold as early as 1823, production consisted only of the small quantities recovered in the treatment of the lead and zinc ores of the Notre-Dame-des-Ange's district and from the gravels of the Chaudière river. Important discoveries of copper-gold deposits, however, were more recently made at Rouyn, in the northwestern part of the province, adjacent to the Kirkland Lake district of Ontario. Smelting facilities became available for this region as the result of the opening of the Noranda smelter in December, 1927. The opera-



tion of this smelter, together with the development of gold properties in the north-western part of the province, has established Quebec as the second largest gold-producing province. The established producing mines, including Siscoe, Granada and Bussières, had their mills in continuous operation throughout the past year. During 1933 and 1934 extensive developments of new gold properties in the Rouyn district resulted in the commencement of milling at the Beattie, Cadillac-O'Brien, McWatters, Thompson-Cadillac, Sullivan Consolidated and Green-Stabell gold mines. Several prospects situated in Pascalis, Louvicourt, Senneville and Bourlamaque townships were active and reported encouraging results. The copper-gold mining and smelting operations of Noranda Mines were continuous and the Company commenced construction of a 500-ton cyanide plant.

**Manitoba.**—The presence of gold-bearing ores in Manitoba has been known for a decade or more and the gold production of this province is now mounting. The Central Manitoba, an auriferous-quartz property in the Beresford Lake area east of lake Winnipeg, has produced gold steadily for several years and the San Antonio in the Rice Lake field has had a mill operating since May, 1932. Milling operations were resumed in 1934 by Diana gold mines and important development work was carried out at the Gunnar, Forty-four, God's Lake, Smelter, Gabrielle, Hanson Manitoba, Island Lake, Wylie Dominion and Wallace Lake gold mines. The major part of the gold of the province, however, continues to be produced as a by-product from the Flin Flon smelter which treats copper-zinc ores.

#### 8.—Quantities of Gold Produced in Canada, by Provinces, calendar years 1911-34.

NOTE.—For the years 1862 to 1910, see Canada Year Book, 1916-17, pp. 268 and 269.

| Year.                  | Nova<br>Scotia. | Quebec.   | Ontario.  | Manitoba. | Saskat-<br>chewan. | Alberta.  | British<br>Columbia. | Yukon.    | Total.    |
|------------------------|-----------------|-----------|-----------|-----------|--------------------|-----------|----------------------|-----------|-----------|
|                        | oz. fine.       | oz. fine. | oz. fine. | oz. fine. | oz. fine.          | oz. fine. | oz. fine.            | oz. fine. | oz. fine. |
| 1911....               | 7,781           | 613       | 2,062     | —         | —                  | 10        | 238,496              | 224,197   | 473,159   |
| 1912....               | 4,385           | 642       | 86,523    | —         | —                  | 73        | 251,815              | 268,447   | 611,885   |
| 1913....               | 2,174           | 701       | 219,801   | —         | —                  | —         | 297,459              | 282,838   | 802,973   |
| 1914....               | 2,904           | 1,292     | 268,264   | —         | —                  | 48        | 252,730              | 247,940   | 773,178   |
| 1915....               | 6,636           | 1,099     | 406,577   | —         | —                  | 195       | 273,376              | 230,173   | 918,056   |
| 1916....               | 4,562           | 1,034     | 492,481   | —         | —                  | 82        | 219,633              | 212,700   | 930,492   |
| 1917....               | 2,210           | 1,511     | 423,261   | 440       | —                  | —         | 133,742              | 177,667   | 738,831   |
| 1918....               | 1,176           | 1,939     | 411,976   | 1,926     | —                  | 27        | 180,163              | 102,474   | 699,681   |
| 1919....               | 850             | 1,470     | 505,739   | 724       | —                  | 24        | 167,252              | 90,705    | 766,764   |
| 1920....               | 690             | 955       | 564,995   | 781       | —                  | —         | 124,808              | 72,778    | 765,007   |
| 1921....               | 439             | 635       | 708,213   | 207       | —                  | 49        | 150,792              | 65,994    | 926,329   |
| 1922....               | 1,042           | —         | 1,000,340 | 156       | —                  | —         | 207,370              | 54,456    | 1,263,364 |
| 1923....               | 655             | 667       | 971,704   | 31        | —                  | —         | 200,140              | 60,144    | 1,233,341 |
| 1924....               | 1,047           | 883       | 1,241,728 | 1,180     | —                  | —         | 245,719              | 34,825    | 1,525,382 |
| 1925....               | 1,626           | 1,602     | 1,461,039 | 4,424     | —                  | —         | 219,227              | 47,817    | 1,735,735 |
| 1926....               | 1,678           | 3,680     | 1,497,215 | 188       | —                  | —         | 225,866              | 25,601    | 1,754,228 |
| 1927....               | 3,151           | 8,331     | 1,627,050 | 182       | —                  | 42        | 183,094              | 30,935    | 1,852,785 |
| 1928....               | 1,290           | 60,006    | 1,578,434 | 19,813    | —                  | 68        | 196,617              | 34,364    | 1,890,592 |
| 1929....               | 2,687           | 90,798    | 1,622,267 | 22,455    | —                  | 5         | 154,204              | 35,892    | 1,928,308 |
| 1930....               | 1,272           | 141,747   | 1,736,012 | 23,189    | —                  | —         | 164,331              | 35,517    | 2,102,068 |
| 1931....               | 460             | 300,075   | 2,085,814 | 102,969   | —                  | 195       | 160,069              | 44,310    | 2,693,892 |
| 1932....               | 964             | 401,105   | 2,280,105 | 122,507   | 11                 | 83        | 199,004              | 40,608    | 3,044,387 |
| 1933....               | 1,382           | 382,886   | 2,155,519 | 125,310   | 5,400              | 324       | 238,995              | 39,493    | 2,949,309 |
| 1934 <sup>1</sup> .... | 3,525           | 390,075   | 2,105,981 | 98,504    | 39,133             | 348       | 293,315              | 38,799    | 2,969,680 |

<sup>1</sup>Preliminary figures.

## 9.—Values of Gold Produced in Canada, by Provinces, calendar years 1911-34.

NOTE.—For the years 1862 to 1910, see Canada Year Book, 1916-17, p. 270.

(From 1911 to 1931 inclusive values calculated on basis 1 fine oz.=£20-671834. Since then at world prices in Canadian funds.)

| Year.    | Nova Scotia. | Quebec.    | Ontario.   | Manitoba. | Saskatchewan. | Alberta. | British Columbia. | Yukon.    | Total.      |
|----------|--------------|------------|------------|-----------|---------------|----------|-------------------|-----------|-------------|
|          | \$           | \$         | \$         | \$        | \$            | \$       | \$                | \$        | \$          |
| 1911.... | 160,854      | 12,672     | 42,625     | —         | —             | 207      | 4,930,145         | 4,634,574 | 9,781,077   |
| 1912.... | 90,638       | 13,270     | 1,788,596  | —         | —             | 1,509    | 5,205,485         | 5,549,296 | 12,648,794  |
| 1913.... | 44,935       | 14,491     | 4,543,690  | —         | —             | —        | 6,149,027         | 5,846,780 | 16,598,923  |
| 1914.... | 60,031       | 26,708     | 5,545,509  | —         | —             | 992      | 5,224,393         | 5,125,374 | 15,983,007  |
| 1915.... | 137,180      | 22,720     | 8,404,693  | —         | —             | 4,026    | 5,651,184         | 4,758,098 | 18,977,901  |
| 1916.... | 94,305       | 21,375     | 10,180,485 | —         | —             | 1,695    | 4,540,216         | 4,396,900 | 19,234,976  |
| 1917.... | 45,685       | 31,235     | 8,749,581  | 9,095     | —             | —        | 2,764,693         | 3,672,703 | 15,272,992  |
| 1918.... | 24,310       | 40,083     | 8,516,299  | 39,814    | —             | 558      | 3,724,300         | 2,118,325 | 14,463,689  |
| 1919.... | 17,571       | 30,388     | 10,454,553 | 14,966    | —             | 500      | 3,457,406         | 1,875,039 | 15,850,423  |
| 1920.... | 14,263       | 19,742     | 11,679,483 | 16,145    | —             | —        | 2,580,010         | 1,504,455 | 15,814,098  |
| 1921.... | 9,075        | 13,127     | 14,640,062 | 4,279     | —             | 1,013    | 3,117,147         | 1,364,217 | 19,148,920  |
| 1922.... | 21,540       | —          | 20,678,862 | 3,225     | —             | —        | 4,286,718         | 1,125,705 | 26,116,050  |
| 1923.... | 13,540       | 13,788     | 20,086,904 | 641       | —             | —        | 4,137,261         | 1,243,287 | 25,495,421  |
| 1924.... | 21,643       | 18,253     | 25,668,795 | 24,393    | —             | —        | 5,079,462         | 719,897   | 31,532,443  |
| 1925.... | 33,612       | 33,116     | 30,202,357 | 91,452    | —             | —        | 4,531,824         | 988,465   | 35,880,826  |
| 1926.... | 34,687       | 76,072     | 30,950,180 | 3,886     | —             | —        | 4,669,065         | 529,220   | 36,263,110  |
| 1927.... | 65,137       | 172,217    | 33,634,108 | 3,762     | —             | 868      | 3,784,889         | 639,483   | 38,300,464  |
| 1928.... | 26,667       | 1,240,434  | 32,629,126 | 409,571   | —             | 1,406    | 4,064,434         | 710,367   | 39,082,005  |
| 1929.... | 55,545       | 1,876,961  | 33,535,234 | 464,186   | —             | 103      | 3,187,680         | 741,954   | 39,861,663  |
| 1930.... | 26,295       | 2,930,170  | 35,886,552 | 479,359   | —             | —        | 3,397,023         | 734,202   | 43,453,601  |
| 1931.... | 9,920        | 6,471,075  | 44,980,280 | 2,220,512 | —             | 4,205    | 3,451,865         | 955,539   | 58,093,396  |
| 1932.... | 22,634       | 9,417,572  | 53,534,743 | 2,876,350 | 258           | 1,949    | 4,672,429         | 953,438   | 71,479,373  |
| 1933.... | 39,525       | 10,950,539 | 61,647,843 | 3,583,866 | 154,440       | 9,267    | 6,835,257         | 1,129,500 | 84,350,237  |
| 1934.... | 121,613      | 13,457,588 | 72,656,345 | 3,398,388 | 1,350,037     | 12,006   | 10,119,367        | 1,338,566 | 102,453,960 |

\*Preliminary figures.

**World Production.**—A sketch of the development of the gold-mining industry of the world since the discovery of America may refer to four successive periods. During the first period, extending from 1493 to 1760, the annual production averaged nearly 337,000 fine oz. The placer mining of Brazil and Colombia swelled the average output of the last 60 years of the period to about 606,000 fine oz. per year.

The production of Russia from placer mining was a considerable factor in the next period, extending from 1761 to 1840, that country retaining first rank among the world's producers until 1837. The average annual production during the period was 565,500 fine oz.

The third period, extending from 1841 to 1890, was notable for the remarkable discoveries of gold in California and Australia in 1848 and 1851 respectively. The annual average during the 50 years was 4,937,000 fine oz. For the first decade the average was 1,761,000 fine oz. and for the second 6,448,000, while in the last decade it declined to 5,201,000. The production of the period was contributed chiefly by the United States, Australia and Russia.

In the fourth period, extending from 1891 to the present time, the outstanding features were the entry of South Africa as an important and later as the leading producer, and the phenomenal increase in the output of most of the gold-producing countries through the introduction of the cyanide process. The output was 6,320,000 fine oz. in 1891 and a steady increase was recorded until 1915, when 23,010,000 fine oz. were produced. Thereafter, the great increase in wages and in the other costs of production of an article of fixed value brought about a steady decline to a minimum

production of 15,576,000 fine oz. in 1922. However, the notable decline in general commodity price levels which occurred in 1921 and 1922 again reduced the costs of gold production and the industry responded with an increase to 17,978,000 fine oz. in 1923, to 19,339,000 in 1928, to 22,330,000 in 1931, to 24,151,000 in 1932 exceeding the former maximum of 1915 and to 24,962,000 in 1933. The annual world production for this period is shown in Table 10.

### 10.—Quantities and Values of World Production of Gold, 1891-1933.

(From the Annual Report of the Director of the United States Mint.)

| Year.     | Quantity.  | Value.      | Year.     | Quantity.  | Value.      | Year.     | Quantity.  | Value.      |
|-----------|------------|-------------|-----------|------------|-------------|-----------|------------|-------------|
|           | oz. fine.  | \$          |           | oz. fine.  | \$          |           | oz. fine.  | \$          |
| 1891..... | 6,320,194  | 130,650,000 | 1906..... | 19,471,080 | 402,503,000 | 1921..... | 16,006,695 | 330,887,771 |
| 1892..... | 7,094,266  | 146,651,500 | 1907..... | 19,977,260 | 413,968,600 | 1922..... | 15,576,270 | 321,990,089 |
| 1893..... | 7,618,811  | 157,494,800 | 1908..... | 21,422,244 | 422,837,000 | 1923..... | 17,977,807 | 371,634,253 |
| 1894..... | 8,764,362  | 181,175,600 | 1909..... | 21,965,111 | 454,059,100 | 1924..... | 18,667,063 | 385,882,387 |
| 1895..... | 9,615,190  | 198,763,600 | 1910..... | 22,022,180 | 455,239,100 | 1925..... | 18,734,102 | 387,268,260 |
| 1896..... | 9,783,914  | 202,251,600 | 1911..... | 22,397,136 | 462,989,761 | 1926..... | 19,251,794 | 397,969,883 |
| 1897..... | 11,420,068 | 236,073,700 | 1912..... | 22,605,068 | 467,288,203 | 1927..... | 19,180,231 | 396,490,561 |
| 1898..... | 13,877,806 | 286,579,700 | 1913..... | 22,928,579 | 473,975,794 | 1928..... | 19,399,124 | 400,995,484 |
| 1899..... | 14,837,775 | 306,724,100 | 1914..... | 21,875,618 | 452,209,154 | 1929..... | 19,585,536 | 404,968,955 |
| 1900..... | 12,315,135 | 254,576,300 | 1915..... | 23,010,348 | 475,666,106 | 1930..... | 20,536,318 | 430,724,934 |
| 1901..... | 12,625,527 | 260,992,900 | 1916..... | 22,400,370 | 463,056,748 | 1931..... | 22,329,525 | 461,592,277 |
| 1902..... | 14,354,680 | 296,737,600 | 1917..... | 20,457,475 | 422,893,501 | 1932..... | 24,150,761 | 499,240,663 |
| 1903..... | 15,852,620 | 327,702,700 | 1918..... | 18,701,294 | 386,890,027 | 1933..... | 24,962,408 | 516,018,675 |
| 1904..... | 16,804,372 | 347,377,200 | 1919..... | 17,376,201 | 359,197,954 |           |            |             |
| 1905..... | 18,396,451 | 380,288,300 | 1920..... | 16,130,273 | 333,442,345 |           |            |             |

In 1933 the world's chief producers were the Union of South Africa, with a production of 11,013,713 fine oz. or 44.1 p.c., Canada, producing 2,949,309 fine oz. or 11.8 p.c.\*, and the United States, producing 2,276,711 fine oz. or 9.1 p.c. As Australia, Rhodesia and British India were also important producers, about 66.6 p.c. of the world production of 1933 was produced in the British Empire. In 1930 the gold production of Canada first exceeded that of the United States and from then to 1933, Canada has definitely ranked second among the world's producers.

Detailed statistics of world gold production for 1932 and 1933 follow.

\* This percentage, derived from world production as reported by the Director of the United States Mint, is slightly less than that derived from estimates of the Imperial Institute as given on p. 374.

### 11.—Quantities and Values of the World Production of Gold and Silver, by Countries, calendar years 1932 and 1933.

(Abridged from the Annual Report of the Director of the United States Mint.)

| Country.                         | Calendar Year 1932. |             |                        |                                         | Calendar Year 1933. |             |             |                                         |
|----------------------------------|---------------------|-------------|------------------------|-----------------------------------------|---------------------|-------------|-------------|-----------------------------------------|
|                                  | Gold.               |             | Silver.                |                                         | Gold.               |             | Silver.     |                                         |
|                                  | Quantity.           | Value.      | Quantity.              | Value (\$0-28204 per oz.). <sup>1</sup> | Quantity.           | Value.      | Quantity.   | Value (\$0-34997 per oz.). <sup>1</sup> |
|                                  | oz. fine.           | \$          | oz. fine.              | \$                                      | oz. fine.           | \$          | oz. fine.   | \$                                      |
| North America—                   |                     |             |                        |                                         |                     |             |             |                                         |
| United States....                | 2,219,304           | 45,877,085  | 23,831,642             | 6,721,476                               | 2,276,711           | 47,063,800  | 22,821,257  | 7,986,755                               |
| Canada.....                      | 3,050,581           | 63,061,106  | 18,356,393             | 5,177,237                               | 2,949,309           | 60,967,614  | 15,187,063  | 5,315,016                               |
| Mexico.....                      | 584,487             | 12,082,419  | 69,303,054             | 19,546,233                              | 637,727             | 13,182,984  | 68,101,062  | 23,833,329                              |
| Totals.....                      | 5,854,372           | 121,020,610 | 111,491,089            | 31,444,946                              | 5,863,747           | 121,214,398 | 106,109,382 | 37,135,100                              |
| Central America and West Indies. | 82,233 <sup>2</sup> | 1,700,000   | 4,300,000 <sup>2</sup> | 1,212,772                               | 87,075 <sup>2</sup> | 1,800,000   | 4,800,000   | 1,679,856                               |

For footnotes see end of table, p. 400.



# 11.—Quantities and Values of the World Production of Gold and Silver, by Countries, calendar years 1932 and 1933—concluded.

(Abridged from the Annual Report of the Director of the United States Mint.)

| Country.                                        | Calendar Year 1932.  |                        |                      |                                         | Calendar Year 1933.  |             |                        |                                         |
|-------------------------------------------------|----------------------|------------------------|----------------------|-----------------------------------------|----------------------|-------------|------------------------|-----------------------------------------|
|                                                 | Gold.                |                        | Silver.              |                                         | Gold.                |             | Silver.                |                                         |
|                                                 | Quantity.            | Value.                 | Quantity.            | Value (\$0-28204 per oz.). <sup>1</sup> | Quantity.            | Value.      | Quantity.              | Value (\$0-34997 per oz.). <sup>1</sup> |
|                                                 | oz. fine.            | \$                     | oz. fine.            | \$                                      | oz. fine.            | \$          | oz. fine.              | \$                                      |
| South America—                                  |                      |                        |                      |                                         |                      |             |                        |                                         |
| Bolivia.....                                    | 12,281               | 253,871                | 4,115,200            | 1,160,651                               | 12,281 <sup>1</sup>  | 253,871     | 4,115,200 <sup>1</sup> | 1,440,196                               |
| Brazil.....                                     | 115,451 <sup>4</sup> | 2,386,584              | 10,000 <sup>3</sup>  | 2,820                                   | 126,000              | 2,604,650   | 10,000 <sup>3</sup>    | 3,500                                   |
| Chile.....                                      | 38,098               | 787,555                | 103,780              | 29,270                                  | 145,511              | 3,007,979   | 103,780 <sup>3</sup>   | 36,320                                  |
| Colombia.....                                   | 248,230              | 5,131,368              | 50,000 <sup>3</sup>  | 14,102                                  | 298,246              | 6,165,208   | 107,992                | 37,794                                  |
| Ecuador.....                                    | 65,629               | 1,856,671              | 114,167              | 32,200                                  | 60,667               | 1,254,098   | 113,200                | 39,617                                  |
| Guiana.....                                     |                      |                        |                      |                                         |                      |             |                        |                                         |
| British.....                                    | 18,714               | 386,858                |                      |                                         | 31,056               | 641,986     |                        |                                         |
| Dutch.....                                      | 8,970                | 185,426                | 6,000 <sup>3</sup>   | 1,692                                   | 12,378               | 255,876     | 6,000 <sup>3</sup>     | 2,100                                   |
| French.....                                     | 45,010 <sup>3</sup>  | 930,439                |                      |                                         | 42,456               | 877,649     |                        |                                         |
| Peru.....                                       | 55,555               | 1,148,424              | 6,735,360            | 1,899,640                               | 84,072               | 1,737,922   | 6,760,534              | 2,365,984                               |
| Venezuela.....                                  | 77,087               | 1,593,529              | 6,000 <sup>3</sup>   | 1,692                                   | 95,710               | 1,978,501   | 6,000 <sup>3</sup>     | 2,100                                   |
| Totals <sup>5</sup> .....                       | 655,981              | 14,180,648             | 11,190,661           | 3,156,212                               | 909,359              | 18,798,051  | 11,272,860             | 3,945,163                               |
| Europe—                                         |                      |                        |                      |                                         |                      |             |                        |                                         |
| Czechoslovakia.....                             | 2,283                | 47,194                 | 947,139              | 267,131                                 | 2,283 <sup>4</sup>   | 47,194      | 947,139 <sup>4</sup>   | 331,470                                 |
| France.....                                     | 43,402 <sup>3</sup>  | 897,139                | 643,000 <sup>3</sup> | 181,352                                 | 57,870               | 1,196,279   | 643,000                | 225,031                                 |
| Germany.....                                    | 2,186                | 45,189                 | 5,993,499            | 1,690,406                               | 2,186 <sup>3</sup>   | 45,189      | 5,993,499 <sup>3</sup> | 2,097,645                               |
| Italy.....                                      | 1,832                | 37,871                 | 801,499              | 226,055                                 | 2,565                | 53,021      | 377,592                | 132,146                                 |
| Roumania.....                                   | 109,631              | 2,266,273              | 173,031              | 48,802                                  | 120,000              | 2,480,620   | 173,031                | 60,556                                  |
| Russia.....                                     | 1,990,085            | 41,138,708             | 400,000 <sup>3</sup> | 112,816                                 | 2,489,375            | 51,460,000  | 400,000 <sup>3</sup>   | 139,988                                 |
| Spain.....                                      | 484                  | 10,000 <sup>3</sup>    | 3,374,335            | 951,697                                 | 11,346               | 234,543     | 2,929,508              | 1,025,240                               |
| Sweden.....                                     | 90,000 <sup>3</sup>  | 1,860,465              | 80,000               | 22,563                                  | 135,930              | 2,809,922   | 244,822                | 85,680                                  |
| Yugoslavia.....                                 | 47,582               | 983,607                | 133,230              | 37,576                                  | 70,344               | 1,454,139   | 196,758                | 68,859                                  |
| Totals <sup>5</sup> .....                       | 2,288,230            | 47,301,907             | 13,144,462           | 3,707,264                               | 2,895,306            | 59,581,336  | 12,433,895             | 4,351,490                               |
| Asia—                                           |                      |                        |                      |                                         |                      |             |                        |                                         |
| British India....                               | 329,632              | 6,814,098              | 6,026,737            | 1,699,781                               | 336,106              | 6,947,926   | 6,080,241              | 2,127,902                               |
| China.....                                      | 96,751               | 2,000,000              | 60,000               | 16,922                                  | 150,000              | 3,100,774   | 60,000 <sup>3</sup>    | 20,998                                  |
| Korea.....                                      | 208,626              | 4,312,683 <sup>4</sup> | 209,332              | 59,040 <sup>4</sup>                     | 208,626 <sup>3</sup> | 4,312,683   | 209,332 <sup>3</sup>   | 73,260                                  |
| Federated Malay States.....                     | 27,159               | 561,426                | 1,117                | 315                                     | 29,036               | 600,227     | 1,117 <sup>3</sup>     | 391                                     |
| Japan.....                                      | 434,037              | 8,972,347 <sup>4</sup> | 6,360,643            | 1,793,956 <sup>4</sup>                  | 433,800              | 8,967,440   | 5,958,842              | 2,085,416                               |
| Netherlands.....                                |                      |                        |                      |                                         |                      |             |                        |                                         |
| East Indies....                                 | 77,964               | 1,611,659              | 842,362              | 237,580                                 | 78,832               | 1,629,602   | 860,463                | 301,136                                 |
| Philippine.....                                 |                      |                        |                      |                                         |                      |             |                        |                                         |
| Islands.....                                    | 229,728              | 4,748,899              | 149,131              | 42,061                                  | 279,535              | 5,778,500   | 181,372                | 63,475                                  |
| Taiwan.....                                     | 92,430               | 1,910,694 <sup>4</sup> | 17,713               | 4,996 <sup>4</sup>                      | 92,430 <sup>3</sup>  | 1,910,694   | 17,713 <sup>3</sup>    | 6,199                                   |
| Totals <sup>5</sup> .....                       | 1,505,694            | 31,125,439             | 13,868,642           | 3,911,512                               | 1,627,238            | 33,637,985  | 13,370,687             | 4,679,339                               |
| Oceania—                                        |                      |                        |                      |                                         |                      |             |                        |                                         |
| Australia (including New Guinea and Papua)..... | 832,510              | 17,209,509             | 8,929,934            | 2,518,599                               | 990,411              | 20,473,607  | 11,121,946             | 3,892,347                               |
| New Zealand....                                 | 165,452              | 3,420,196              | 562,792              | 158,730                                 | 161,755              | 3,343,772   | 430,492                | 150,659                                 |
| Totals <sup>5</sup> .....                       | 998,267              | 20,636,010             | 9,492,726            | 2,677,329                               | 1,152,471            | 23,823,684  | 11,552,438             | 4,043,006                               |
| Africa—                                         |                      |                        |                      |                                         |                      |             |                        |                                         |
| Belgian Congo... British West Africa.....       | 242,691              | 5,016,867              | 18,000 <sup>3</sup>  | 5,077                                   | 282,144              | 5,832,440   | 18,000 <sup>3</sup>    | 6,299                                   |
| French West Africa.....                         | 292,510              | 6,046,718              | 86,402               | 24,369                                  | 338,110              | 6,989,352   | 117,480                | 41,114                                  |
| Kenya Colony....                                | 4,837                | 100,000 <sup>3</sup>   |                      |                                         | 48,225               | 996,899     |                        |                                         |
| Madagascar....                                  | 9,052                | 187,121                | 1,118                | 315                                     | 10,532               | 217,716     | 1,614                  | 565                                     |
| Rhodesia.....                                   | 7,298 <sup>4</sup>   | 150,863                |                      |                                         | 13,374               | 276,465     |                        |                                         |
| Northern.....                                   | 6,349                | 131,245                | 338                  | 95                                      | 2,588                | 53,499      | 25                     | 9                                       |
| Southern.....                                   | 574,135              | 11,868,424             | ~114,555             | 32,309                                  | 642,499              | 13,281,630  | 112,434                | 39,348                                  |
| Tanganyika.....                                 | 25,687               | 530,997                | 8,313                | 934                                     | 32,516               | 672,165     | 3,891                  | 1,362                                   |
| Union of South Africa.....                      | 11,558,532           | 238,936,062            | 1,120,668            | 316,073                                 | 11,013,713           | 227,673,603 | 1,065,011              | 372,722                                 |
| Totals <sup>5</sup> .....                       | 12,735,979           | 263,276,049            | 1,405,222            | 396,328                                 | 12,427,212           | 256,893,221 | 1,447,536              | 506,594                                 |
| Totals for World..                              | 24,150,761           | 199,210,663            | 164,892,802          | 46,506,363                              | 24,962,408           | 516,018,675 | 160,986,798            | 56,340,548                              |

<sup>1</sup> Average price per fine ounce in New York. <sup>2</sup> Estimate, based on United States imports of ore and bullion and interrogatory data. <sup>3</sup> Estimates, based on productions of earlier years. <sup>4</sup> Previous years figures. <sup>5</sup> Totals include other countries with minor productions which are not shown.



**Subsection 2.—Silver.**

Although no official statistics of the production of silver were published prior to 1887, the annual reports of the operating companies showed that from 1869 to 1885 about 4,000,000 oz. of silver, with a probable value of \$4,800,000, were produced in the Port Arthur district in Ontario. From 1887 to 1893 the annual production ranged in value between \$300,000 and \$400,000, and was derived chiefly from Ontario and Quebec. The next three years saw a rapid increase in production, due to the development of the silver-lead deposits of British Columbia, and in 1896 a production worth over \$2,000,000 was recorded. From 1896 to 1905 annual production varied in value between \$2,000,000 and \$3,500,000, rising rapidly during the next five years to 32,869,264 fine oz. valued at \$17,580,455 in 1910, as a result of the discovery of the rich ores of the Cobalt district. Since then there has been a falling-off in quantity, but owing to the higher price of the metal the value of the annual production increased to a maximum of \$20,693,704 in 1918. The post-war depression and the decline in the value of silver caused a low value of production in 1921, but the industry recovered, and in 1930 production amounted to 26,443,823 fine oz. Partly owing to the further decline in the price of silver since that time production has decreased, amounting to only 15,187,950 fine oz. in 1933.

The silver production of Canada is chiefly credited to the silver-lead-zinc ores of British Columbia, the silver-cobalt ores of northern Ontario and the silver-lead ores exported from Yukon. An appreciable amount of silver also occurs in combination with the gold ores of northern Ontario, the nickel ores of the Sudbury district and the copper-gold ores of Quebec, Manitoba and British Columbia. Thus most Canadian silver is produced in combination with other metals.

During 1931 much interest was created by the discovery at Echo bay, Great Bear lake, of mineral deposits in which high-grade native silver was associated with cobalt and radium-bearing ores. The first commercial production from this area occurred in 1932 when shipments were made to the Trail smelter in British Columbia. Production from this new camp was continued in 1933 and 1934.

**Ontario.**—The production of silver in Ontario in 1933 was 4,535,680 fine oz., the greater part of which was derived from the rich silver-bearing ores of the Cobalt district. Considerable quantities were also obtained from the products of the nickel refineries and from crude gold bullion. The Cobalt deposit was discovered in 1903, when the Temiskaming and Northern Ontario Railway was being built from North Bay to the head of lake Timiskaming. Later somewhat similar deposits were discovered at Gowganda, 55 miles northwest, and at South Lorrain, 18 miles southeast of Cobalt. Owing to the depletion of the ore bodies combined with the very low price of silver, operations have been much curtailed in the Cobalt, Gowganda and South Lorrain camps.

**British Columbia.**—In 1926, for the first time since 1905, this province surpassed Ontario in silver production. Quantity of production in 1930 was the greatest on record and amounted to 11,825,930 fine oz., although this record was nearly equalled in 1927 with a production of 11,040,445 fine oz. Production since 1930 has steadily declined to 6,737,057 fine oz. in 1933. Small amounts are recovered from alluvial gold and crude gold bullion, but the Sullivan and Premier mines have been responsible for the greater part of the output from this province. The Sullivan, primarily noted for its lead and zinc production, is the largest producer of silver in Canada. Silver was also recovered from the copper ores and concentrates which were exported for treatment in foreign smelters and from blister copper made at the Anyox smelter.

**Yukon.**—The production of silver in recent years from Yukon has been derived chiefly from the silver-lead ores exported from the Mayo district. The Treadwell-Yukon Co. ceased mining at Keno Hill in the autumn of 1932 and transferred its operations to the Elsa claim on Galena Hill. High-grade ore was mined and shipped from this mine in 1933 after which the camp was abandoned and operations concentrated on the old Silver King mine.

Statistics of the quantities and values of silver produced in Canada are given for the years since 1911 in Table 12, while statistics of the quantities and values produced in the various provinces are given for 1911 and subsequent years in Table 13.

### 12.—Quantities and Values of Silver Produced in Canada during the calendar years 1911-34.

NOTE.—For figures for the years 1887-1910, see p. 361, 1933 Year Book.

| Year.     | Quantity.  | Value.     | Year.     | Quantity.  | Value.     | Year.                   | Quantity.  | Value.     |
|-----------|------------|------------|-----------|------------|------------|-------------------------|------------|------------|
|           | oz. fine.  | \$         |           | oz. fine.  | \$         |                         | oz. fine.  | \$         |
| 1911..... | 32,559,044 | 17,355,272 | 1919..... | 16,020,657 | 17,802,474 | 1927.....               | 22,736,698 | 12,816,677 |
| 1912..... | 31,955,560 | 19,440,165 | 1920..... | 13,330,357 | 13,450,330 | 1928.....               | 21,936,407 | 12,761,725 |
| 1913..... | 31,845,803 | 19,040,924 | 1921..... | 13,543,198 | 8,485,355  | 1929.....               | 23,143,261 | 12,264,308 |
| 1914..... | 28,449,821 | 15,593,631 | 1922..... | 18,626,439 | 12,576,758 | 1930.....               | 26,443,823 | 10,089,376 |
| 1915..... | 26,625,960 | 13,228,842 | 1923..... | 18,601,744 | 12,067,506 | 1931.....               | 20,562,247 | 6,141,943  |
| 1916..... | 25,459,741 | 16,717,121 | 1924..... | 19,736,323 | 13,180,113 | 1932.....               | 18,347,907 | 5,811,081  |
| 1917..... | 22,221,274 | 18,091,895 | 1925..... | 20,228,988 | 13,971,150 | 1933.....               | 15,187,950 | 5,746,027  |
| 1918..... | 21,383,979 | 20,693,704 | 1926..... | 22,371,924 | 13,894,531 | 1934 <sup>1</sup> ..... | 16,441,361 | 7,803,218  |

<sup>1</sup>Preliminary figures.

### 13.—Quantities and Values of Silver Produced in Canada, by Provinces, during the calendar years 1911-34.

NOTE.—For the years 1887 to 1910, see Canada Year Book, 1916-1917, p. 271. Nova Scotia, Saskatchewan and Alberta have also shown a small production in recent years, production during 1932 and 1933 being shown in Tables 5 and 5A of this chapter.

| Year.                | Quebec.   |         | Ontario.   |            | Manitoba. |         | British Columbia. |           | Yukon and Northwest Territories. |           |
|----------------------|-----------|---------|------------|------------|-----------|---------|-------------------|-----------|----------------------------------|-----------|
|                      | oz. fine. | \$      | oz. fine.  | \$         | oz. fine. | \$      | oz. fine.         | \$        | oz. fine.                        | \$        |
| 1911..               | 18,435    | 9,827   | 30,540,754 | 16,279,443 | —         | —       | 1,887,147         | 1,005,924 | 112,708                          | 60,078    |
| 1912..               | 9,465     | 5,758   | 29,214,025 | 17,772,352 | —         | —       | 2,651,002         | 1,612,737 | 81,068                           | 49,318    |
| 1913..               | 34,573    | 20,672  | 28,411,261 | 16,987,377 | —         | —       | 3,312,343         | 1,980,483 | 87,626                           | 52,393    |
| 1914..               | 57,737    | 31,646  | 25,139,214 | 13,779,055 | —         | —       | 3,159,897         | 1,731,971 | 92,973                           | 50,959    |
| 1915..               | 63,450    | 31,524  | 22,748,609 | 11,302,419 | —         | —       | 3,565,852         | 1,771,658 | 248,049                          | 123,241   |
| 1916..               | 98,610    | 64,748  | 21,608,158 | 14,188,133 | —         | —       | 3,392,872         | 2,227,794 | 360,101                          | 236,446   |
| 1917..               | 136,194   | 110,885 | 19,301,835 | 15,714,975 | 7,201     | 5,863   | 2,655,994         | 2,162,430 | 119,605                          | 97,379    |
| 1918..               | 178,675   | 172,907 | 17,198,737 | 16,643,562 | 13,316    | 12,886  | 3,921,336         | 3,794,755 | 71,915                           | 69,594    |
| 1919..               | 140,926   | 156,600 | 12,117,878 | 13,465,628 | 20,700    | 23,069  | 3,713,537         | 4,126,556 | 27,556                           | 30,621    |
| 1920..               | 61,003    | 61,552  | 9,907,626  | 9,996,795  | 15,510    | 15,649  | 3,327,028         | 3,356,971 | 19,190                           | 19,363    |
| 1921..               | 38,084    | 23,861  | 9,761,607  | 6,116,037  | 33        | 20      | 3,350,357         | 2,099,133 | 393,092                          | 246,288   |
| 1922..               | —         | —       | 10,811,903 | 7,300,305  | 20        | 14      | 7,150,937         | 4,828,384 | 663,493                          | 447,997   |
| 1923..               | 33,006    | 21,412  | 10,540,943 | 6,838,226  | 5         | 3       | 6,113,327         | 3,965,899 | 1,914,438                        | 1,241,953 |
| 1924..               | 83,814    | 55,972  | 11,272,526 | 7,527,933  | 140       | 93      | 8,153,003         | 5,444,657 | 226,755                          | 151,422   |
| 1925..               | 214,943   | 148,451 | 10,529,131 | 7,271,944  | 477       | 329     | 8,579,458         | 5,925,403 | 904,893                          | 624,946   |
| 1926..               | 375,986   | 233,513 | 9,274,965  | 5,760,402  | 18        | 11      | 10,625,816        | 6,599,376 | 2,095,027                        | 1,301,159 |
| 1927..               | 740,864   | 417,625 | 9,307,953  | 5,246,893  | 12        | 7       | 11,040,445        | 6,223,499 | 1,647,295                        | 928,580   |
| 1928..               | 908,959   | 528,796 | 7,242,601  | 4,213,456  | 1,763     | 1,026   | 10,943,367        | 6,366,413 | 2,839,633                        | 1,651,985 |
| 1929..               | 813,821   | 431,268 | 8,890,726  | 4,711,462  | 2,644     | 1,401   | 10,156,408        | 5,382,185 | 3,279,530                        | 1,737,922 |
| 1930..               | 571,164   | 217,922 | 10,205,683 | 3,893,876  | 94,653    | 36,114  | 11,825,930        | 4,512,065 | 3,746,326                        | 1,429,373 |
| 1931..               | 530,345   | 158,414 | 7,438,951  | 2,222,014  | 836,547   | 249,877 | 8,061,599         | 2,408,000 | 3,694,728                        | 1,103,615 |
| 1932..               | 628,902   | 199,184 | 6,335,788  | 2,006,648  | 1,036,497 | 328,275 | 7,293,462         | 2,309,958 | 3,063,188                        | 966,994   |
| 1933..               | 471,419   | 178,351 | 4,535,680  | 1,715,975  | 1,101,578 | 416,758 | 6,737,057         | 2,548,817 | 2,227,476                        | 842,717   |
| 1934 <sup>1</sup> .. | 470,252   | 223,186 | 5,320,820  | 2,625,309  | 810,725   | 384,777 | 8,749,289         | 4,152,491 | 553,587                          | 262,738   |

<sup>1</sup>Preliminary figures.

**World Production of Silver.**—The world production of silver was estimated by the Director of the United States Mint, as shown in Table 11 of this chapter, at 160,986,798 fine oz. for 1933, a decrease of 2.4 p.c. from 1932 and of 38 p.c. from 1929, when world production reached a record maximum of 260,970,029 fine oz. The silver production of Canada in 1933 was 15,187,950 fine oz., or about 9.4\* p.c. of the estimated world total for that year. This placed Canada third, next to Mexico and the United States.

#### 14.—Quantities and Values of World Production of Silver, with Annual Average Prices, 1860-1933.

(From the Annual Report of the Director of the United States Mint.)

| Year.     | Quantity.     | Value. | Average Price per Fine Oz. <sup>1</sup> | Year.   | Quantity.     | Value.  | Average Price per Fine Oz. <sup>1</sup> | Year.   | Quantity.     | Value.  | Average Price per Fine Oz. <sup>1</sup> |
|-----------|---------------|--------|-----------------------------------------|---------|---------------|---------|-----------------------------------------|---------|---------------|---------|-----------------------------------------|
|           | 000 oz. fine. | \$000. | \$                                      |         | 000 oz. fine. | \$000.  | \$                                      |         | 000 oz. fine. | \$000.  | \$                                      |
| 1860..... | 29,095        | 39,337 | 1.352                                   | 1885... | 91,610        | 97,519  | 1.065                                   | 1910... | 221,716       | 119,727 | 0.540                                   |
| 1861..... | 35,402        | 46,191 | 1.305                                   | 1886... | 93,297        | 92,794  | 0.995                                   | 1911... | 226,193       | 122,144 | 0.540                                   |
| 1862..... | 35,402        | 47,651 | 1.346                                   | 1887... | 96,124        | 94,031  | 0.979                                   | 1912... | 230,904       | 141,972 | 0.615                                   |
| 1863..... | 35,402        | 47,616 | 1.345                                   | 1888... | 108,828       | 102,186 | 0.939                                   | 1913... | 210,013       | 126,848 | 0.604                                   |
| 1864..... | 35,402        | 47,616 | 1.345                                   | 1889... | 120,214       | 112,414 | 0.935                                   | 1914... | 172,264       | 95,262  | 0.553                                   |
| 1865..... | 35,402        | 47,368 | 1.338                                   | 1890... | 126,095       | 131,937 | 1.046                                   | 1915... | 173,001       | 89,912  | 0.519                                   |
| 1866..... | 43,052        | 57,646 | 1.339                                   | 1891... | 137,170       | 135,500 | 0.988                                   | 1916... | 180,802       | 124,011 | 0.686                                   |
| 1867..... | 43,052        | 57,173 | 1.328                                   | 1892... | 153,152       | 133,404 | 0.871                                   | 1917... | 186,125       | 166,241 | 0.893                                   |
| 1868..... | 43,052        | 57,086 | 1.326                                   | 1893... | 165,473       | 129,120 | 0.780                                   | 1918... | 203,159       | 200,002 | 0.985                                   |
| 1869..... | 43,052        | 57,043 | 1.325                                   | 1894... | 164,610       | 104,493 | 0.635                                   | 1919... | 179,850       | 201,588 | 1.121                                   |
| 1870..... | 43,052        | 57,173 | 1.328                                   | 1895... | 167,501       | 109,546 | 0.654                                   | 1920... | 173,296       | 176,658 | 1.019                                   |
| 1871..... | 63,317        | 83,958 | 1.326                                   | 1896... | 157,061       | 105,859 | 0.673                                   | 1921... | 171,286       | 108,110 | 0.631                                   |
| 1872..... | 63,317        | 83,705 | 1.323                                   | 1897... | 160,421       | 96,253  | 0.600                                   | 1922... | 209,815       | 142,536 | 0.679                                   |
| 1873..... | 63,267        | 82,121 | 1.298                                   | 1898... | 169,055       | 99,743  | 0.590                                   | 1923... | 246,010       | 172,276 | 0.700                                   |
| 1874..... | 55,301        | 70,674 | 1.279                                   | 1899... | 168,337       | 101,003 | 0.600                                   | 1924... | 239,485       | 178,311 | 0.744                                   |
| 1875..... | 62,262        | 77,578 | 1.246                                   | 1900... | 173,591       | 107,626 | 0.620                                   | 1925... | 245,214       | 172,498 | 0.703                                   |
| 1876..... | 67,753        | 78,323 | 1.156                                   | 1901... | 173,011       | 103,807 | 0.600                                   | 1926... | 253,795       | 159,569 | 0.629                                   |
| 1877..... | 62,680        | 75,279 | 1.201                                   | 1902... | 162,763       | 86,265  | 0.530                                   | 1927... | 253,981       | 144,947 | 0.570                                   |
| 1878..... | 73,385        | 84,540 | 1.153                                   | 1903... | 167,689       | 90,552  | 0.540                                   | 1928... | 257,925       | 151,214 | 0.586                                   |
| 1879..... | 74,383        | 83,533 | 1.124                                   | 1904... | 164,195       | 95,233  | 0.580                                   | 1929... | 260,970       | 139,961 | 0.536                                   |
| 1880..... | 74,795        | 85,641 | 1.145                                   | 1905... | 172,318       | 105,114 | 0.610                                   | 1930... | 248,708       | 96,310  | 0.387                                   |
| 1881..... | 79,021        | 89,926 | 1.138                                   | 1906... | 165,054       | 111,721 | 0.677                                   | 1931... | 195,920       | 56,842  | 0.290                                   |
| 1882..... | 86,472        | 98,232 | 1.136                                   | 1907... | 184,207       | 121,577 | 0.660                                   | 1932... | 164,757       | 46,468  | 0.282                                   |
| 1883..... | 89,175        | 98,984 | 1.111                                   | 1908... | 203,131       | 108,655 | 0.535                                   | 1933... | 160,987       | 56,341  | 0.350                                   |
| 1884..... | 81,568        | 90,785 | 1.113                                   | 1909... | 212,149       | 110,364 | 0.520                                   |         |               |         |                                         |

<sup>1</sup>At the average par price of a fine ounce of silver in London, excepting the years 1918 to 1922, inclusive, and 1931-33, for which the mean of the New York bid and asked prices was used.

In the preceding historical Table 14 the world production, value and average price of silver are given for each year from 1860 up to the present. During the period from 1860 to 1872, silver was still a monetary base—that is, a standard money—in parts of the western world and the price remained fairly stable at about \$1.32 to \$1.35 per fine oz. (about 15½ oz. silver = 1 oz. gold), although production is estimated to have more than doubled during these 12 years. After the demonetization of silver in Germany and the United States, production continued to increase and by 1889 had nearly doubled again, although the price had declined to 94 cts. In spite of a further increase in production in 1890, the price in that year rose to \$1.05

\*This percentage, based on the world estimate of the Director of the United States Mint, differs slightly from that on p. 374 based on the world estimate of the Imperial Institute.



per fine oz. During the next six years from 1891 to 1897, while annual world production increased only 17 p.c., the price declined nearly 40 p.c. During this same period, world gold production nearly doubled (see Table 10). From 1898 to 1904 annual production remained fairly stationary, while the price fluctuated around 60 cts. From 1905 to 1912 there was a further rise in annual production of about 35 p.c., but the price, while fluctuating between 68 and 52 cts. per fine oz., was practically the same in 1912 as in 1905. During the economic disturbances of the war period, world production was on a lower level, while the price rose to a peak of \$1.12 in 1919 but dropped to 63 cts. in 1921. From then until 1929, world production increased again by 50 p.c. and the price, after a rise to 74 cts. in 1924, declined steadily to 54 cts. On account of the world depression since 1929, production declined, while the price dropped to little more than half the lowest price recorded in any other period shown in the table. The fact that silver is to a great extent a by-product was responsible to some extent for its low price. The year 1934 was a notable one in the history of silver because of the legislation enacted by the United States' Congress and the decision reached at the London Monetary and Economic Conference of 1933. In the United States the Silver Purchase Act became law on June 19, changing the monetary reserve structure of that country, while in Canada the first step towards implementing the London agreement was taken when the Minister of Finance called for tenders as of Aug. 20, for delivery of silver bullion up to the amount of 250,000 ounces.

### Subsection 3.—Copper.

The copper-mining industry has developed at a very rapid rate. A production of 3,505,000 lb. in 1886 had doubled 6 years later. By 1913, the output had increased over twenty-one fold, amounting to 76,976,925 lb. The extraordinary demand for war requirements resulted in an average production from 1916 to 1918 of 115,048,931 lb. In the post-war depression production dropped to less than 43,000,000 lb. in 1922, but recovered rapidly and by 1930 had risen to a new peak of 303,478,356 lb. In the two following years, as a result of the world-wide depression with very low prices prevailing for copper, production declined to 247,679,070 lb. in 1932. In 1933 the output again increased to 299,982,448 lb., while for 1934 it was estimated at 364,890,860 lb. This encouraging recovery in copper production not only reflects the stability of the copper-mining industry but emphasises the firmly entrenched position established by the Canadian metal in the copper-consuming countries of the world. Some Canadian copper producers, located principally in Manitoba, Ontario and Quebec, are fortunate in possessing ores containing sufficiently high values in precious metals to permit of operation in spite of the abnormally low copper prices prevailing almost continuously since 1930. However, the unfavourable copper market existing during recent years has not encouraged production and has curtailed the search for and development of new copper properties. In June of 1932 the United States instituted a duty of 4 cents per pound on foreign copper, which adversely affected Canadian copper production, more especially that of British Columbia. On the other hand, Canadian copper enjoys a preference in the United Kingdom and a large part of Canadian production now goes there.

**Quebec.** Until 1894, when Ontario took the lead, Quebec was the chief copper-producing province of Canada, the principal mines being the Eustis and Huntingdon properties in the Eastern Townships. There is still an annual production from this field. Recent developments in the Rouyn camp of northwestern Quebec have resulted in a greatly increased production of copper since 1927. These deposits are



associated with an easterly extension of formations similar to those of the Kirkland Lake area in Ontario. The first discoveries were located as gold prospects; the existence of large bodies of copper and zinc ores was subsequently proved and there is now a large production of copper as well as of gold. Since 1931 the Canadian Copper Refineries, Ltd., have treated blister copper in their electrolytic refinery located at Montreal East. This material comes from the Noranda smelter and the smelter at Flin Flon, Manitoba. Gold, silver, selenium and tellurium are also products of the Montreal refinery.

**Ontario.**—The Sudbury deposits were first noted in 1856 but did not attract attention until 1883-84, during the construction of the C.P.R., when a railway cutting was made through the small hill on which the Murray mine was afterwards located. During the first years the deposits were developed for their copper content alone; not until 1887 was the presence of nickel determined and the true value of the ores known. These nickel-copper ores of the Sudbury area are the source of nearly all the copper produced in Ontario. Under the International Nickel Co. of Canada, an amalgamation of the former International Nickel Co. and the Mond Nickel Co., an extensive program of expansion in the mining and metallurgical facilities of the district has been carried out. A subsidiary company, the Ontario Refining Co., Ltd., operates a copper refinery at Copper Cliff where electrolytically refined copper, precious metals, selenium and tellurium are produced from the blister copper smelted by the International Nickel Co., chiefly from ores from their own mines in the district. The company also operates the Acton precious metals refinery situated near London, England, where it recovers, in a refined state, the gold, silver and platinum metals contained in the concentrates produced at both the Swansea and Port Colborne nickel refineries. The Falconbridge Nickel Mines, operating a mine in Falconbridge township, make a copper-nickel matte which is shipped to Norway for refining. Adverse industrial conditions led to reductions in the copper production of Ontario in 1931 and 1932. There was, however, a remarkable recovery in production during 1933 and a continued expansion in 1934.

**Manitoba.**—During the four years 1917-20, when high prices prevailed for copper, ores containing 9,866,328 lb. of copper were shipped by the Mandy mine. Much development has been carried on in the Flin Flon district of Manitoba in the last ten years, and large bodies of ore have been proven on the Flin Flon property of the Hudson Bay Mining and Smelting Co. and the Sherritt-Gordon property. About 135 miles of branch line from the Hudson Bay Railway provide these properties with transportation facilities. A copper smelter and electrolytic zinc plant are operated by the Hudson Bay Mining and Smelting Co. at Flin Flon, while a large hydraulic development on the Churchill river provides the necessary power. Production from the plants of this company has been continuous since 1930.

∴ **British Columbia.**—Until 1930, British Columbia had been the leading copper producer among the provinces for many years, but it then gave first place to Ontario and since 1930 production has steadily declined, largely owing to the closing of the Copper Mountain mine and the curtailed operations at Britannia as a result of the low price of copper. The production of the province since 1930 has consisted of the blister copper produced at Anyox by the Granby Consolidated Mining, Smelting and Power Co., Ltd., and the copper estimated as recoverable from the ores, matte and concentrates exported. The principal copper-producing mines in British Columbia at present are the Britannia mine on Howe sound, and the Hidden Creek and Bonanza mines on Portland canal. The Hidden Creek and Bonanza ores are smelted at the Anyox smelter.

### 15.—Quantities of Copper Produced in Canada, by Provinces, with Total Values, calendar years 1911-34.

NOTE.—For the years 1886 to 1910, see Canada Year Book, 1916-17, p. 272.

| Year.     | Quebec.    | Ontario.    | Manitoba.  | Saskatchewan. | British Columbia. | Yukon.    | Totals.     |            |
|-----------|------------|-------------|------------|---------------|-------------------|-----------|-------------|------------|
|           | lb.        | lb.         | lb.        | lb.           | lb.               | lb.       | lb.         | \$         |
| 1911..... | 2,436,190  | 17,932,263  | —          | —             | 35,279,558        | —         | 55,648,011  | 6,886,998  |
| 1912..... | 3,282,210  | 22,250,601  | —          | —             | 50,526,656        | 1,772,660 | 77,832,127  | 12,718,548 |
| 1913..... | 3,455,887  | 25,885,929  | —          | —             | 45,791,579        | 1,843,530 | 76,976,925  | 11,753,606 |
| 1914..... | 4,201,497  | 28,948,211  | —          | —             | 41,219,202        | 1,367,050 | 75,735,960  | 10,301,606 |
| 1915..... | 4,197,482  | 39,361,464  | —          | —             | 56,692,988        | 533,216   | 100,785,150 | 17,410,635 |
| 1916..... | 5,703,347  | 44,997,035  | —          | —             | 63,642,550        | 2,807,096 | 117,150,028 | 31,867,150 |
| 1917..... | 5,015,560  | 42,867,774  | 1,116,000  | —             | 57,730,959        | 2,460,097 | 109,227,332 | 29,687,989 |
| 1918..... | 5,869,649  | 47,074,475  | 2,339,751  | —             | 62,865,681        | 619,878   | 118,769,434 | 29,250,536 |
| 1919..... | 2,691,695  | 24,346,623  | 3,348,000  | —             | 44,502,079        | 165,184   | 75,053,581  | 14,028,265 |
| 1920..... | 880,638    | 32,059,993  | 3,062,577  | —             | 45,319,771        | 277,712   | 81,600,691  | 14,244,217 |
| 1921..... | 352,308    | 12,821,385  | —          | —             | 34,447,127        | —         | 47,620,820  | 5,953,555  |
| 1922..... | —          | 10,943,636  | —          | —             | 31,936,182        | —         | 42,879,818  | 5,738,177  |
| 1923..... | —          | 31,656,800  | —          | —             | 55,224,737        | —         | 86,881,537  | 12,529,186 |
| 1924..... | 1,893,008  | 37,113,193  | —          | —             | 65,451,246        | —         | 104,457,447 | 13,604,538 |
| 1925..... | 2,510,141  | 39,718,777  | —          | —             | 69,221,600        | —         | 111,450,518 | 15,649,882 |
| 1926..... | 2,674,058  | 41,312,867  | —          | —             | 89,108,017        | —         | 133,094,942 | 17,490,300 |
| 1927..... | 3,119,848  | 45,341,295  | —          | —             | 91,686,297        | —         | 140,147,440 | 17,195,487 |
| 1928..... | 33,697,949 | 66,607,510  | —          | —             | 102,283,210       | 107,377   | 202,696,046 | 28,598,249 |
| 1929..... | 55,337,169 | 88,879,853  | —          | —             | 103,903,738       | —         | 248,120,760 | 43,415,251 |
| 1930..... | 80,310,363 | 127,718,871 | 2,087,609  | —             | 93,318,885        | 42,628    | 303,478,356 | 37,948,359 |
| 1931..... | 68,376,985 | 112,882,625 | 45,821,432 | —             | 65,223,348        | —         | 292,304,390 | 24,114,065 |
| 1932..... | 67,336,692 | 77,055,413  | 52,706,861 | —             | 50,580,104        | —         | 247,679,070 | 15,294,058 |
| 1933..... | 69,943,882 | 145,504,720 | 38,163,181 | 3,223,941     | 43,146,724        | —         | 299,982,448 | 21,634,853 |
| 1934..... | 73,968,545 | 205,059,539 | 22,635,465 | 15,090,310    | 48,137,001        | —         | 364,890,860 | 26,681,069 |

<sup>1</sup>Preliminary figures.

**World Production of Copper.**—World production of copper was estimated at 1,120,000 short tons in 1933, as compared with 2,150,400 tons in 1929, the record year. Canada had an output of 149,992 tons in 1933, producing about 13.4 p.c. of the world estimated total and standing third among the nations.

### 16.—Copper Production of the Leading Countries and of the World,<sup>1</sup> 1913-33.

(In short tons of 2,000 pounds.)

| Year.     | Canada. | North-<br>ern Rho-<br>desia. | Belgian<br>Congo. | Chile.  | Japan.  | Mexico. | Peru.  | Spain<br>and<br>Portugal. | United<br>States. | World<br>Produc-<br>tion. |
|-----------|---------|------------------------------|-------------------|---------|---------|---------|--------|---------------------------|-------------------|---------------------------|
| 1913....  | 38,488  | —                            | —                 | 46,574  | 73,283  | 58,185  | 30,600 | 39,683                    | 614,255           | 1,072,674                 |
| 1914..... | 37,868  | —                            | —                 | 49,221  | 77,650  | 40,043  | 29,853 | 29,652                    | 579,133           | 1,021,233                 |
| 1915..... | 50,393  | —                            | —                 | 57,680  | 83,108  | 34,128  | 38,269 | 40,895                    | 712,126           | 1,138,172                 |
| 1916..... | 58,675  | —                            | —                 | 78,559  | 110,900 | 60,751  | 47,472 | 39,021                    | 671,123           | 1,533,294                 |
| 1917..... | 54,614  | —                            | —                 | 112,985 | 119,058 | 52,348  | 49,784 | 45,084                    | 961,016           | 1,579,675                 |
| 1918..... | 59,385  | —                            | —                 | 117,851 | 99,583  | 83,233  | 48,944 | 50,596                    | 968,687           | 1,569,523                 |
| 1919..... | 37,527  | —                            | —                 | 87,721  | 86,468  | 66,661  | 43,243 | 38,581                    | 604,642           | 1,069,437                 |
| 1920..... | 40,800  | —                            | —                 | 109,075 | 74,727  | 49,806  | 36,356 | 25,353                    | 635,248           | 1,082,652                 |
| 1921..... | 23,810  | —                            | —                 | 65,299  | 59,626  | 13,576  | 36,689 | 36,596                    | 238,420           | 600,960                   |
| 1922..... | 21,440  | —                            | —                 | 142,830 | 59,663  | 29,842  | 40,133 | 40,234                    | 511,970           | 995,045                   |
| 1923..... | 43,441  | —                            | —                 | 201,042 | 70,315  | 60,538  | 48,684 | 57,115                    | 754,000           | 1,411,980                 |
| 1924..... | 52,229  | —                            | —                 | 209,855 | 69,378  | 49,150  | 38,495 | 60,713                    | 819,000           | 1,522,394                 |
| 1925..... | 55,725  | 83                           | 99,323            | 209,654 | 72,413  | 59,123  | 41,180 | 63,933                    | 854,000           | 1,589,717                 |
| 1926..... | 66,547  | 793                          | 88,889            | 223,015 | 72,277  | 62,303  | 42,703 | 63,933                    | 878,000           | 1,637,489                 |
| 1927..... | 70,074  | 3,685                        | 98,278            | 264,242 | 73,381  | 63,760  | 50,438 | 60,351                    | 847,419           | 1,682,361                 |
| 1928..... | 101,348 | 6,642                        | 123,962           | 316,141 | 75,214  | 72,280  | 62,233 | 61,600                    | 904,898           | 1,892,800                 |
| 1929..... | 124,060 | 6,122                        | 151,007           | 353,434 | 83,190  | 95,409  | 61,855 | 75,040                    | 997,555           | 2,150,400                 |
| 1930..... | 151,739 | 7,021                        | 153,164           | 242,865 | 87,119  | 80,922  | 52,416 | 73,920                    | 705,073           | 1,769,600                 |
| 1931..... | 146,152 | 25,536                       | 132,160           | 247,520 | 83,608  | 59,757  | 48,832 | 62,720                    | 528,875           | 1,523,200                 |
| 1932..... | 123,840 | 97,708                       | 59,360            | 113,792 | 79,230  | 38,862  | 25,232 | 38,080                    | 238,111           | 996,800                   |
| 1933..... | 149,992 | 144,954                      | 73,409            | 179,200 | 75,459  | 43,900  | 28,000 | 34,720                    | 196,190           | 1,120,000                 |

<sup>1</sup>From the Imperial Institute except in the case of the production for Canada, where the official figures of the Dominion Bureau of Statistics are used.

#### Subsection 4.—Lead.

Lead is obtained in Canada largely from the deposits of British Columbia. From 88,665 lb. in 1891 the production advanced to over 39,000,000 lb. in 1897. Owing to the low price of silver in 1898 and labour troubles in the Slocan in 1899, the output in the latter year fell to 21,900,000 lb., but rose to 63,200,000 lb. in 1900. The output fell to 18,100,000 lb. in 1903, owing to the condition of the market affecting the production of the low-grade silver-lead ores of the East Kootenay district. An Act of October, 1903, provided for the payment of bounties on lead contained in lead-bearing ores mined in Canada and, as a direct result of the bounty, the output increased to 56,900,000 lb. in 1905 but fell off gradually to 23,800,000 lb. in 1911. A marked increase has since been experienced, a record total of 337,946,688 lb. being reached in 1928, while production in 1929 and 1930 continued at nearly the same level. Owing to the very low price to which the metal declined, production fell off to 255,947,378 lb. in 1932 and 266,475,191 lb. in 1933. The official estimate of production in 1934 was 342,811,000 lb., a new high record.

**British Columbia.**—In the East and West Kootenay districts there are many important mines, the principal of which is the Sullivan lead-zinc mine near Kimberley. The ore averages about 11 p.c. lead, 7 p.c. zinc and 5 ounces of silver to the ton. The successful solving by the Consolidated Mining and Smelting Co. of the metallurgical problems connected with the separation and reduction of these lead-zinc ores accounts to a considerable extent for the rapid growth in lead production during recent years. As a result of the low prices prevailing since 1930 for lead, zinc, and silver, many of the small silver-lead mines of the Slocan have remained idle, while the Monarch mine at Field re-opened in 1934 after having been closed down for some time.

**Other Provinces.**—Occurrences of lead have been found in Gaspé peninsula and in the Rouyn district of Quebec, but the only production of importance has come from the Notre-Dame-des-Anges district, Portneuf Co., where the Tetrault mine was a consistent producer of lead and zinc concentrates until 1930, when operations were suspended owing to the low prices of these metals. Lead mining in Ontario has been intimately associated with the successful operations of the Galetta mine and smelter, which closed down in the summer of 1931 owing to the low price of lead. Recent discoveries in the Sudbury Basin area have disclosed bodies of lead-zinc ore. These properties were under development but operations have been suspended and very little production has come from them as yet. An important production of lead came in recent years from the silver-lead ores of the Mayo district of Yukon. These operations are described under "silver" on pp. 401-402 of this chapter.

### 17.—Quantities and Values of Lead Produced from Canadian Ores, calendar years 1911-34.

NOTE.—For figures for the years 1887-1910, see 1929 Year Book, p. 367.

| Year.     | Quantity. <sup>1</sup> | Value.    | Price per Pound. <sup>2</sup> | Year.                   | Quantity. <sup>1</sup> | Value.     | Price per Pound. <sup>2</sup> |
|-----------|------------------------|-----------|-------------------------------|-------------------------|------------------------|------------|-------------------------------|
|           | lb.                    | \$        | cts.                          |                         | lb.                    | \$         | cts.                          |
| 1911..... | 23,784,969             | 827,717   | 3-480                         | 1923.....               | 111,234,466            | 7,985,522  | 7-179                         |
| 1912..... | 35,763,476             | 1,597,554 | 4-467                         | 1924.....               | 175,485,499            | 14,221,345 | 8-104                         |
| 1913..... | 37,662,703             | 1,754,705 | 4-659                         | 1925.....               | 253,590,578            | 23,127,460 | 9-120                         |
| 1914..... | 36,337,765             | 1,627,568 | 4-479                         | 1926.....               | 283,801,265            | 19,240,661 | 6-751                         |
| 1915..... | 46,316,450             | 2,593,721 | 5-600                         | 1927.....               | 311,423,161            | 16,477,139 | 5-256                         |
| 1916..... | 41,497,615             | 3,532,692 | 8-513                         | 1928.....               | 337,946,688            | 15,553,231 | 4-576                         |
| 1917..... | 32,576,281             | 3,628,020 | 11-137                        | 1929.....               | 326,522,566            | 16,544,248 | 5-063                         |
| 1918..... | 51,398,002             | 4,754,315 | 9-250                         | 1930.....               | 332,894,163            | 13,102,635 | 3-933                         |
| 1919..... | 43,827,669             | 3,053,037 | 6-966                         | 1931.....               | 267,342,482            | 7,260,183  | 2-710                         |
| 1920..... | 35,953,717             | 3,214,262 | 8-940                         | 1932.....               | 255,947,378            | 5,409,704  | 2-114                         |
| 1921..... | 66,679,592             | 3,828,742 | 5-742                         | 1933.....               | 266,475,191            | 6,372,998  | 2-392                         |
| 1922..... | 93,307,171             | 5,817,702 | 6-219                         | 1934 <sup>3</sup> ..... | 346,270,062            | 8,436,524  | 2-436                         |

<sup>1</sup> Previous to 1913 the figures reported show the metal content of the shipments and are somewhat in excess of the actual amounts recovered. Since 1912 the data given represent the quantities of lead produced in Canada from domestic ores, together with the estimated lead recovery from lead ores and concentrates exported. <sup>2</sup>From 1911 to 1925, average prices at Montreal; from 1926 to 1934, average yearly prices at London, Eng. <sup>3</sup>Preliminary figures.

**World Production.**—The world production of lead in 1933 was about 1,310,400\* short tons. The principal producers were the United States with 20·9 p.c., Mexico 10·0 p.c., Australia 19·0 p.c., Canada 10·2 p.c., Germany 7·0 p.c. and Spain 4·9 p.c.

#### Subsection 5.—Nickel.

With the exception of the small amounts of nickel recovered from the ores of the Cobalt district, the Canadian production of nickel has been derived entirely from the well-known nickel-copper deposits of the Sudbury district, Ontario. A brief description of the history and development of the nickel-copper mining industry will be found under copper in Subsection 3 of this section. From 830,477 lb. in 1889, the production of nickel increased continually to a war-time peak of 92,507,293 lb. in 1918. After a slump to 19,293,060 lb. and 17,597,123 lb. in 1921 and 1922 respectively there was an increase to 73,857,114 lb. in 1925. In 1928 production at 96,755,578 lb. exceeded that of the war year 1918, while 1929 established a record at 110,275,912 lb. Production later declined to 30,327,968 lb. in 1932, but an output of 83,264,658 lb. in 1933 represents a remarkable recovery. Estimated production in 1934 was 130,346,400 lb., the highest on record.

In recent years the producing companies have instituted extensive researches to discover and encourage new peace-time uses for the metal. The success attending their efforts in that direction accounted very largely for the marked increase in production during the nineteen-twenties. The automobile industry, electrical machinery, cooking utensils, new submarine cables and various nickel alloys all helped to absorb this increased production. The world-wide depression seriously affected the demand for a commodity so dependent upon the world's industrial markets, while the increased nickel production of 1933 and 1934 reflects the recent improvement in industrial activity throughout the world.

\* From the Imperial Institute's Statistical Summary.



**Sudbury.**—The nickel-bearing rocks of the Sudbury district, with a width of about two and one-half miles, form a wide ellipse 36 miles long and 13 miles broad. The ore mined in the district contains nickel, copper and iron, but cobalt, gold, silver, selenium, tellurium, platinum and palladium are nearly always present in relatively small quantities. The proved deposits of nickel ore in Canada are estimated to be sufficient to provide for the world's requirements for many years, while there are still large reserves undeveloped.

**World Production.**—The world production of nickel was about 50,736 short tons in 1933, of which output about 82 p.c.\* was Canadian in origin, while the remainder was derived chiefly from New Caledonia.

# 18.—Quantities and Values<sup>1</sup> of Nickel Produced in Canada during the calendar years 1911-34.

NOTE.—For figures for the years 1889-1910, see 1929 Year Book, p. 368.

| Year.     | Quantity.  | Value.     | Year.    | Quantity.  | Value. <sup>1</sup> | Year.                 | Quantity.   | Value. <sup>1</sup> |
|-----------|------------|------------|----------|------------|---------------------|-----------------------|-------------|---------------------|
|           | lb.        | \$         |          | lb.        | \$                  |                       | lb.         | \$                  |
| 1911..... | 34,098,744 | 10,229,623 | 1919.... | 44,544,883 | 17,817,953          | 1927....              | 66,798,717  | 15,262,171          |
| 1912..... | 44,841,542 | 13,452,463 | 1920.... | 61,335,706 | 24,534,282          | 1928....              | 96,755,578  | 22,318,907          |
| 1913..... | 49,676,772 | 14,903,032 | 1921.... | 19,293,060 | 6,752,571           | 1929....              | 110,275,912 | 27,115,461          |
| 1914..... | 45,517,937 | 13,655,381 | 1922.... | 17,597,123 | 6,158,993           | 1930....              | 103,768,857 | 24,455,133          |
| 1915..... | 68,308,667 | 20,492,597 | 1923.... | 62,453,843 | 18,332,077          | 1931....              | 65,666,320  | 15,267,453          |
| 1916..... | 82,958,564 | 29,035,498 | 1924.... | 69,536,350 | 12,126,739          | 1932....              | 30,327,968  | 7,179,862           |
| 1917..... | 82,330,280 | 33,732,112 | 1925.... | 73,857,114 | 15,946,672          | 1933....              | 83,264,658  | 20,130,480          |
| 1918..... | 92,507,293 | 37,002,917 | 1926.... | 65,714,294 | 14,374,163          | 1934 <sup>2</sup> ... | 128,687,340 | 32,139,425          |

<sup>1</sup> A change in the method of computing the value of nickel production accounts for the drop in value after 1923. <sup>2</sup> Preliminary figures.

## Subsection 6.—Cobalt.

The major portion of the world supply of cobalt was for almost two decades derived from the silver-cobalt-nickel arsenides of the Cobalt district, the cobalt produced by refineries in southern Ontario having practically controlled world production until recent years. Large deposits of cobalt-bearing ores occur in central Africa, and the introduction into the world's markets of cobalt from this source has limited the market for the Canadian product to such an extent that since 1926 Canadian production has dropped to less than half of the world production. The ores occurring in recent discoveries at Great Bear lake, N.W.T., contain cobalt associated with pitchblende and silver.

The ore bodies at Cobalt, discovered in 1903, carry silver, cobalt, nickel, bismuth and arsenic. The Deloro smelter treats ores and residues and disposes of cobalt oxide, metallic cobalt and unseparated oxides of nickel and cobalt. The smelter output of cobalt, computed as the metallic cobalt and cobalt in oxides together with the cobalt recovered in ores exported from the mines and including cobalt in residues exported, amounted in 1933 to 466,702 lb. valued at \$597,752, as against 1,116,492 lb. valued at \$2,328,517 in 1925. Production in 1934 is estimated at 588,566 lb. valued at \$589,933.

\* From the Imperial Institute's Statistical Summary.

## Subsection 7.—Zinc.

The zinc-mining industry of Canada has recently made rapid strides, largely on account of the application of improved metallurgical methods in the treatment of the lead-zinc ores of British Columbia and the production of electrolytic zinc from the Flin Flon copper-zinc ores in Manitoba. The metallic recoveries from Canadian ores were 267,643,505 lb. in 1930, as compared with 5,600,000 lb. in 1913. Production in 1933 amounted to 199,131,984 lb. while the output in 1934 was estimated at 298,579,581 lb.

**British Columbia.**—The principal zinc-mining regions are situated in the Kootenay district of British Columbia, where there are large deposits of silver-lead-zinc ore. The chief producing mine is the Sullivan near Kimberley, where the ore worked is a replacement deposit of considerable size. Other mines are located in the Ainsworth and Slocan divisions of the West Kootenay district. Further information regarding lead-zinc mining and metallurgical operations is given under "lead" in Subsection 4 of this section.

**Other Provinces.**—There has been considerable exploration and development of zinc-bearing deposits during recent years in Eastern Canada, where these ores are often characterized by the close association of copper, zinc and gold. In north-western Manitoba the Flin Flon and Sherritt-Gordon mines have ores of this nature and refined zinc has been made at the Flin Flon smelter since the autumn of 1930. Some important deposits of zinc-bearing ore have been developed in the Rouyn district of Quebec. Zinc is associated with lead in the deposits at Galetta, Ontario, and at Notre-Dame-des-Anges, Quebec, and mines in both these districts have been producers of zinc concentrates, while the Errington mine in the Sudbury district developed a lead-zinc deposit and made some small shipments of zinc concentrates. Zinc concentrates have also been produced at the Sterling mine in Nova Scotia. However, all lead-zinc properties to the east of Manitoba have remained inactive since 1930.

## 19.—Production of Zinc in Canada, calendar years 1911-34.

| Year.     | Quantity. <sup>1</sup> | Value.    | Average Price per lb. | Year.                   | Quantity. <sup>1</sup> | Value.     | Average Price per lb. |
|-----------|------------------------|-----------|-----------------------|-------------------------|------------------------|------------|-----------------------|
|           | lb.                    | \$        | cts.                  |                         | lb.                    | \$         | cts.                  |
| 1911..... | 1,877,479              | 108,105   | 5-758                 | 1923.....               | 60,416,240             | 3,991,701  | 6-607                 |
| 1912..... | 4,283,760              | 297,421   | 6-943                 | 1924.....               | 98,909,077             | 6,274,791  | 6-344                 |
| 1913..... | 5,640,195              | 318,558   | 5-648                 | 1925.....               | 109,268,511            | 8,338,446  | 7-622                 |
| 1914..... | 7,246,063              | 377,737   | 5-213                 | 1926.....               | 149,938,105            | 11,110,413 | 7-410                 |
| 1915..... | 9,771,651              | 1,292,789 | 13-230                | 1927.....               | 165,495,525            | 10,250,793 | 6-194                 |
| 1916..... | 23,364,760             | 2,991,623 | 12-804                | 1928.....               | 184,647,374            | 10,143,050 | 5-493                 |
| 1917..... | 29,668,764             | 2,640,817 | 8-901                 | 1929.....               | 197,267,087            | 10,626,778 | 5-387                 |
| 1918..... | 35,083,175             | 2,862,436 | 8-159                 | 1930.....               | 267,643,505            | 9,635,166  | 3-600                 |
| 1919..... | 32,194,707             | 2,362,448 | 7-338                 | 1931.....               | 237,245,451            | 6,059,249  | 2-554                 |
| 1920..... | 39,863,912             | 3,057,961 | 7-671                 | 1932.....               | 172,283,558            | 4,144,454  | 2-406                 |
| 1921..... | 53,089,356             | 2,471,310 | 4-655                 | 1933.....               | 199,131,984            | 6,393,132  | 3-211                 |
| 1922..... | 56,290,000             | 3,217,536 | 5-716                 | 1934 <sup>2</sup> ..... | 298,579,581            | 9,087,568  | 3-044                 |

<sup>1</sup> Estimated foreign smelter recoveries and refined zinc made in Canada.<sup>2</sup> Preliminary figures.

### Subsection 8.—Iron.\*

Iron ore is widely distributed in Canada and extensive deposits have been discovered from time to time. In Quebec there is a small annual production of titaniferous iron ore from a deposit near Baie St. Paul, but this material, which is principally exported, is used for its titanium content and not as a source of iron. There are millions of tons of iron magnetite sands, containing a high percentage of iron, along the north shore of the St. Lawrence in Saguenay Co., but these sands contain a high percentage of titanium, rendering the briquetted ore unfavourable for blast-furnace treatment, so that efforts to utilize them have not proved successful. There are also a number of deposits of bog iron ore in the St. Lawrence valley remarkably free from sulphur and phosphorus. These bog iron ores were successfully used in charcoal blast furnaces at Radnor Forges and Drummondville for many years. The known deposits of non-Bessemer iron ore in northern Ontario are very extensive. Millions of tons of red hæmatite were taken from the Helen mine in the Michipicoten district, while the Magpie mine in the same district produced siderite which was roasted before being shipped to the blast furnaces at Sault Ste. Marie. In British Columbia, some development work has been done on iron deposits on Kamloops lake and on Texada island, but no iron-mining or iron-smelting industry has become established in that province. Extensive deposits of hæmatite exist on the Belcher islands in Hudson bay, but the ore is rather low in grade and its comparative inaccessibility renders its development impracticable. Immense deposits of iron ores, large masses being high-grade, have been reported along the course of the Koksoak river, in northern Quebec, but these are so inaccessible that up to the present they have not even been systematically explored.

Hitherto there has been no great incentive to the development of the iron-mining industry in Canada, since there are easily accessible and abundant supplies in the higher-grade ores of Wabana, Newfoundland, and of the Mesabi range in Minnesota. The Wabana section of Newfoundland contains one of the largest deposits of iron ore in the world, the probable reserves in that area being estimated at 3,635,000,000 tons, and consisting of an exceptionally high-grade hæmatite.

In Ontario, where the iron and steel industry has reached its largest development in Canada, cheap and high-grade supplies of iron ore are readily available from the Mesabi range of Minnesota, while coal supplies are drawn from the nearby coal fields of Pennsylvania.

From Table 20 it will be observed that the tonnage of pig iron made in Canada in 1929 exceeded that of any previous year, while the 1929 quantities of steel ingots and castings made were exceeded only in the war years 1917 and 1918. Production has fallen off considerably since 1929 as a result of the reaction which set in during the latter part of that year. Ontario has been the leading producer of pig iron throughout the years recorded.

\* A sketch of the iron and steel industry of Canada was given on pp. 452-456 of the 1922-23 Year Book.

**20.—Iron Ore Shipments and Production of Pig Iron and of Steel Ingots and Castings, calendar years 1909-34.**

| Year.                   | Ore Shipments from Canadian Mines. | Production of Pig Iron. |            |             |            |                     |            | Production of Steel Ingots and Castings |
|-------------------------|------------------------------------|-------------------------|------------|-------------|------------|---------------------|------------|-----------------------------------------|
|                         |                                    | Nova Scotia.            |            | Ontario.    |            | Total. <sup>1</sup> |            |                                         |
|                         |                                    | short tons.             | \$         | short tons. | \$         | short tons.         | \$         |                                         |
| 1909.....               | 268,043                            | 354,380                 | 3,453,800  | 407,012     | 6,002,441  | 757,162             | 9,581,834  | 754,719                                 |
| 1910.....               | 259,418                            | 350,287                 | 4,203,444  | 447,273     | 6,956,923  | 800,797             | 11,245,622 | 822,284                                 |
| 1911.....               | 210,344                            | 390,242                 | 4,682,904  | 526,635     | 7,606,939  | 917,535             | 12,307,125 | 882,396                                 |
| 1912.....               | 215,883                            | 424,994                 | 6,374,910  | 589,593     | 8,176,089  | 1,014,587           | 14,550,999 | 957,681                                 |
| 1913.....               | 307,634                            | 480,068                 | 7,201,020  | 648,899     | 9,338,992  | 1,128,967           | 16,540,012 | 1,168,993                               |
| 1914.....               | 244,854                            | 227,052                 | 2,951,676  | 556,112     | 7,051,180  | 783,164             | 10,002,856 | 828,641                                 |
| 1915.....               | 398,112                            | 420,275                 | 5,463,575  | 493,500     | 5,910,624  | 913,775             | 11,374,199 | 1,020,896                               |
| 1916.....               | 275,176                            | 470,055                 | 7,050,825  | 699,202     | 9,700,073  | 1,169,257           | 16,750,898 | 1,428,249                               |
| 1917.....               | 215,302                            | 472,147                 | 10,387,234 | 684,642     | 13,902,867 | 1,170,480           | 25,025,960 | 1,745,734                               |
| 1918.....               | 211,608                            | 415,870                 | 10,451,400 | 747,650     | 21,324,857 | 1,195,551           | 33,495,171 | 1,873,708                               |
| 1919.....               | 197,170                            | 285,087                 | 7,141,641  | 624,993     | 17,104,151 | 917,781             | 24,577,589 | 1,030,342                               |
| 1920.....               | 129,072                            | 332,493                 | 7,687,614  | 749,068     | 22,252,062 | 1,090,396           | 30,319,024 | 1,232,697                               |
| 1921.....               | 59,509                             | 169,504                 | 4,407,104  | 495,489     | 12,882,714 | 665,676             | 17,307,576 | 747,582                                 |
| 1922.....               | 17,971                             | 135,261                 | 3,139,994  | 293,662     | 6,493,513  | 428,923             | 9,633,507  | 544,020                                 |
| 1923.....               | 30,752                             | 130,972                 | 5,360,099  | 674,428     | 15,995,496 | 985,400             | 21,355,595 | 990,942                                 |
| 1924.....               | -                                  | 177,078                 | 3,842,593  | 415,971     | 9,525,736  | 593,049             | 13,368,329 | 728,773                                 |
| 1925.....               | -                                  | 226,010                 | 4,402,674  | 413,247     | 8,040,015  | 639,257             | 12,442,689 | 842,803                                 |
| 1926.....               | -                                  | 280,266                 | 6,165,852  | 567,929     | 10,495,122 | 848,195             | 16,660,974 | 869,413                                 |
| 1927.....               | -                                  | 279,495                 | 2          | 515,366     | 2          | 794,861             | 2          | 1,016,555                               |
| 1928.....               | -                                  | 339,087                 | 2          | 823,168     | 2          | 1,162,254           | 2          | 1,382,885                               |
| 1929.....               | -                                  | 348,097                 | 2          | 861,682     | 2          | 1,209,779           | 2          | 1,543,387                               |
| 1930.....               | -                                  | 238,152                 | 2          | 598,687     | 2          | 836,839             | 2          | 1,130,727                               |
| 1931.....               | -                                  | 113,560                 | 2          | 356,883     | 2          | 470,443             | 2          | 752,762                                 |
| 1932.....               | -                                  | 34,381                  | 2          | 127,045     | 2          | 161,426             | 2          | 383,923                                 |
| 1933.....               | -                                  | 132,736                 | 2          | 121,859     | 2          | 254,595             | 2          | 459,176                                 |
| 1934 <sup>3</sup> ..... | -                                  | 151,603                 | 2          | 304,231     | 2          | 455,834             | 2          | 850,158                                 |

<sup>1</sup> Including a small production from Quebec in certain years.    <sup>2</sup> Owing to the fact that much of the pig iron produced in Canada is used by the firms producing it for further manufacture in their own plants, no attempt has been made since 1926 to place a nominal value on such production.    <sup>3</sup> Preliminary figures.

## Section 5.—Production of Non-Metallic Minerals.

### Subsection 1.—Fuels.

#### Coal.

The fuel situation in Canada is somewhat anomalous as, in spite of the enormous resources of coal in the country, about 50 p.c. of the consumption is imported. The Canadian coal areas are situated in the eastern and western provinces, while Ontario and Quebec are more easily and economically supplied with coal from the nearer coal fields of Pennsylvania and Ohio.\* The anomaly of the situation is accentuated if we consider that Canada's present coal consumption is about 35,000,000 tons annually, as against reserves of 1,234,289,000,000 metric tons, sufficient for an unthinkable long period at the present rate of consumption.

The Dominion Fuel Board, with the Deputy Minister of the Department of Mines as chairman, was constituted in 1922 to meet the need for a standing organization definitely responsible for the systematic study of the fuel position of the Dominion.

\* See map showing the sources of the coal supply of different parts of Canada, p. 386 of 1922-23 Year Book.



**Coal Resources.**—A summary of the known coal resources of Canada was given on pp. 391-394 of the 1922-23 Year Book; the accompanying table is reproduced as Table 21.

### 21.—Coal Resources of Canada, by Provinces and Classes of Coal.<sup>1</sup>

(In metric tons of 2,204 pounds.)

| Province or District.      | Including Seams of 1 foot or over at Depths to 4,000 feet.             |                                |                                              | Including Seams of 2 feet and over, at Depths between 4,000 and 6,000 feet. |                                              |
|----------------------------|------------------------------------------------------------------------|--------------------------------|----------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------|
|                            | Actual Reserve.<br>(Calculation Based on Actual Thickness and Extent.) |                                | Probable Reserve.<br>(Approximate Estimate.) |                                                                             | Probable Reserve.<br>(Approximate Estimate.) |
|                            | Area,<br>sq. miles.                                                    | Class of<br>Coal. <sup>2</sup> | Thousands<br>of tons.                        | Area,<br>sq. miles.                                                         | Thousands<br>of tons.                        |
| Nova Scotia.....           | 174                                                                    | B                              | 2,188,151                                    | 204                                                                         | 4,891,817                                    |
| New Brunswick.....         | —                                                                      | B                              | —                                            | 121                                                                         | 151,000                                      |
| Ontario <sup>4</sup> ..... | —                                                                      | L                              | —                                            | 10                                                                          | 25,000                                       |
| Manitoba.....              | —                                                                      | L                              | —                                            | 48                                                                          | 160,000                                      |
| Saskatchewan.....          | 306                                                                    | L                              | 2,412,000                                    | 13,100                                                                      | 57,400,000                                   |
| Alberta.....               | 25,300                                                                 | L                              | 382,500,000                                  | 56,375                                                                      | 491,271,000                                  |
|                            |                                                                        | B                              | 3,223,800                                    |                                                                             | 182,183,600                                  |
| British Columbia.....      | 439                                                                    | A & B                          | 669,000                                      | 6,196                                                                       | 100,000                                      |
|                            |                                                                        | L                              | 23,771,242                                   |                                                                             | 44,907,700                                   |
| Yukon.....                 | —                                                                      | A & B                          | 60,000                                       | 2,840                                                                       | 5,136,000                                    |
|                            |                                                                        | L                              | —                                            |                                                                             | 250,000                                      |
| Northwest Territories..    | —                                                                      | L                              | —                                            | 300                                                                         | 4,800,000                                    |
| Arctic Islands.....        | —                                                                      | B                              | —                                            | 6,000                                                                       | 6,000,000                                    |
| <b>Totals.....</b>         | <b>26,219</b>                                                          | <b>—</b>                       | <b>414,804,193<sup>2</sup></b>               | <b>85,194</b>                                                               | <b>801,966,117</b>                           |

<sup>1</sup> See "Coal, Coke and By-Products", published by the Imperial Mineral Resources Bureau.

<sup>2</sup> The coal of all classes mined in Alberta to 1911, amounting to 20,000,000 tons, has been deducted.

<sup>3</sup> A=Anthracite, B=Bituminous, L=Lignite.

<sup>4</sup> Extensive investigation has been carried on by the Ontario authorities in connection with the Onakawana lignite deposits of the Moose River basin, James Bay region. No commercial production from this field has been reported up to 1935.

The coal production in 1933 amounted to 11,903,344 short tons, valued at \$35,923,962, or an average of \$3.02 per ton. This represented a decrease of 5,660,949 tons, or 32 p.c., as compared with 1928, the record year. Nova Scotia was again the leading producer. The coal produced in Nova Scotia, New Brunswick, British Columbia and Yukon is all classed as bituminous, while Alberta produces bituminous, sub-bituminous and lignite, and Saskatchewan and Manitoba lignite only. The division of the 1932 and 1933 production among these classes is given in Table 26. The quantity of coal mined annually in six provinces, and the Yukon Territory, and totals for Canada from 1911 to 1934 is shown in Table 22.

**22.—Production of Coal in Canada, by Provinces, calendar years 1911-34.**

NOTE.—For annual production from 1874 to 1910, by provinces, see 1911 Year Book, p. 419.

| Year.                  | Nova Scotia. | New Brunswick. | Manitoba.   | Saskatchewan. | Alberta.    | British Columbia. | Yukon.      | Canada.     |            |
|------------------------|--------------|----------------|-------------|---------------|-------------|-------------------|-------------|-------------|------------|
|                        |              |                |             |               |             |                   |             | Quantity.   | Value.     |
|                        | short tons.  | short tons.    | short tons. | short tons.   | short tons. | short tons.       | short tons. | short tons. | \$         |
| 1911....               | 7,004,420    | 55,781         | -           | 206,779       | 1,511,036   | 2,542,532         | 2,840       | 11,323,388  | 26,467,646 |
| 1912....               | 7,783,888    | 44,780         | -           | 225,342       | 3,240,577   | 3,208,997         | 9,245       | 14,512,829  | 36,019,044 |
| 1913....               | 7,980,073    | 70,311         | -           | 212,897       | 4,014,755   | 2,714,420         | 19,722      | 15,012,178  | 37,334,940 |
| 1914....               | 7,370,924    | 98,049         | -           | 232,299       | 3,683,015   | 2,239,799         | 13,443      | 13,637,529  | 33,471,801 |
| 1915....               | 7,463,370    | 127,391        | -           | 240,107       | 3,360,818   | 2,065,613         | 9,724       | 13,267,023  | 32,111,182 |
| 1916....               | 6,912,140    | 143,540        | -           | 281,300       | 4,559,054   | 2,584,061         | 3,300       | 14,483,395  | 38,817,481 |
| 1917....               | 6,327,091    | 189,095        | -           | 355,445       | 4,736,368   | 2,433,888         | 4,872       | 14,046,759  | 43,199,831 |
| 1918....               | 5,818,562    | 268,212        | -           | 346,847       | 5,972,816   | 2,568,589         | 2,900       | 14,977,926  | 55,192,896 |
| 1919....               | 5,790,196    | 166,377        | -           | 379,347       | 4,933,660   | 2,649,516         | -           | 13,919,096  | 55,622,670 |
| 1920....               | 6,437,156    | 171,610        | -           | 335,222       | 6,907,765   | 3,095,011         | -           | 16,946,764  | 82,496,538 |
| 1921....               | 5,734,928    | 187,192        | -           | 335,632       | 5,909,217   | 2,890,291         | 233         | 15,057,493  | 72,451,656 |
| 1922....               | 5,569,072    | 287,513        | -           | 382,437       | 5,990,911   | 2,927,033         | 465         | 15,157,431  | 65,518,497 |
| 1923....               | 6,597,838    | 276,617        | -           | 438,100       | 6,854,397   | 2,823,306         | 313         | 16,990,571  | 72,058,986 |
| 1924....               | 5,557,441    | 217,121        | -           | 479,118       | 5,189,729   | 2,193,667         | 1,121       | 13,638,197  | 53,953,988 |
| 1925....               | 3,842,978    | 208,012        | -           | 471,965       | 5,869,031   | 2,742,252         | 730         | 13,134,968  | 49,261,951 |
| 1926....               | 6,747,477    | 173,111        | -           | 439,803       | 6,503,705   | 2,613,719         | 316         | 16,478,131  | 59,875,094 |
| 1927....               | 7,071,876    | 203,950        | -           | 470,216       | 6,934,162   | 2,746,243         | 414         | 17,426,861  | 61,867,463 |
| 1928....               | 6,743,504    | 207,738        | -           | 471,713       | 7,336,330   | 2,804,594         | 144         | 17,564,293  | 63,757,833 |
| 1929....               | 7,056,133    | 218,706        | -           | 580,189       | 7,150,693   | 2,490,378         | 458         | 17,496,557  | 63,065,170 |
| 1930....               | 6,252,552    | 209,349        | -           | 579,424       | 5,755,528   | 2,083,818         | 653         | 14,881,324  | 52,849,748 |
| 1931....               | 4,955,563    | 182,181        | 1,306       | 662,836       | 4,564,015   | 1,876,406         | 904         | 12,243,211  | 41,207,682 |
| 1932....               | 4,084,581    | 212,695        | 1,552       | 887,139       | 4,870,648   | 1,681,490         | 808         | 11,738,913  | 37,117,695 |
| 1933....               | 4,557,590    | 312,303        | 3,880       | 927,649       | 4,718,788   | 1,382,272         | 862         | 11,903,344  | 35,923,962 |
| 1934 <sup>1</sup> .... | 6,340,790    | 314,681        | 3,037       | 903,776       | 4,748,074   | 1,484,653         | 638         | 13,795,649  | 41,922,253 |

<sup>1</sup> Preliminary figures.

The imports of anthracite, bituminous and lignite coal for the calendar years from 1911 to 1933 are given in Table 23, and the exports of all coal from 1911 to 1933 in Table 24.

**23.—Imports into Canada of Anthracite, Bituminous and Lignite Coal for Home Consumption, calendar years 1911-33.**

NOTE.—Anthracite dust is included under anthracite coal. For previous years, see 1911 Year Book, p. 420.

| Year.     | Anthracite. |            | Bituminous Coal. |            | Lignite Coal. |         | Totals.     |            |
|-----------|-------------|------------|------------------|------------|---------------|---------|-------------|------------|
|           | short tons. | \$         | short tons.      | \$         | short tons.   | \$      | short tons. | \$         |
| 1911..... | 4,020,577   | 18,794,192 | 10,538,315       | 20,498,399 | -             | -       | 14,558,892  | 39,292,591 |
| 1912..... | 4,184,017   | 20,080,388 | 10,411,793       | 19,397,649 | -             | -       | 14,595,810  | 39,478,037 |
| 1913..... | 4,642,057   | 22,034,839 | 13,559,896       | 25,914,280 | -             | -       | 18,201,953  | 47,949,119 |
| 1914..... | 4,435,010   | 21,241,924 | 10,286,047       | 18,559,574 | -             | -       | 14,721,057  | 39,801,498 |
| 1915..... | 4,072,192   | 18,763,980 | 8,393,710        | 9,591,625  | -             | -       | 12,465,902  | 28,345,605 |
| 1916..... | 4,570,815   | 22,216,363 | 13,009,788       | 16,073,303 | -             | -       | 17,580,603  | 38,289,666 |
| 1917..... | 5,320,198   | 28,109,586 | 15,537,262       | 42,452,771 | -             | -       | 20,857,460  | 70,562,357 |
| 1918..... | 4,785,160   | 26,007,888 | 16,893,427       | 45,642,696 | -             | -       | 21,678,587  | 71,650,584 |
| 1919..... | 4,937,095   | 31,595,694 | 12,356,162       | 29,565,105 | -             | -       | 17,293,257  | 61,160,799 |
| 1920..... | 4,982,313   | 36,773,351 | 12,861,229       | 61,260,247 | -             | -       | 18,843,542  | 98,033,598 |
| 1921..... | 4,553,820   | 40,293,639 | 13,748,242       | 48,631,095 | -             | -       | 18,302,062  | 88,924,734 |
| 1922..... | 2,705,752   | 23,795,143 | 10,317,773       | 37,387,285 | -             | -       | 13,023,525  | 61,182,428 |
| 1923..... | 5,165,382   | 46,457,962 | 15,822,240       | 49,899,099 | 2,331         | 12,846  | 20,989,953  | 96,369,907 |
| 1924..... | 4,152,558   | 37,280,910 | 12,646,214       | 29,628,643 | 26,007        | 117,955 | 16,724,779  | 67,027,508 |
| 1925..... | 3,782,557   | 32,096,509 | 12,548,460       | 26,974,340 | 18,653        | 87,832  | 16,349,670  | 59,158,681 |
| 1926..... | 4,192,419   | 34,202,166 | 12,376,606       | 25,511,932 | 10,423        | 45,567  | 16,579,448  | 59,759,665 |
| 1927..... | 4,107,854   | 31,282,371 | 14,568,671       | 30,457,884 | 10,829        | 44,254  | 13,687,354  | 61,784,500 |
| 1928..... | 3,748,816   | 27,680,018 | 13,445,945       | 26,608,427 | 10,780        | 44,247  | 17,205,541  | 54,332,692 |
| 1929..... | 4,019,917   | 28,809,792 | 14,170,138       | 27,140,968 | 14,108        | 62,508  | 18,204,163  | 56,013,268 |
| 1930..... | 4,256,090   | 30,098,910 | 14,497,955       | 26,522,765 | 18,676        | 72,691  | 18,772,721  | 56,694,366 |
| 1931..... | 3,162,317   | 21,067,025 | 9,952,280        | 15,732,710 | 6,410         | 29,603  | 13,121,007  | 38,829,338 |
| 1932..... | 3,148,902   | 19,312,710 | 8,807,131        | 12,011,398 | 3,004         | 13,701  | 11,959,037  | 31,337,809 |
| 1933..... | 3,015,571   | 17,610,091 | 8,185,759        | 10,501,924 | 2,707         | 10,176  | 11,204,037  | 28,122,191 |

## 24.—Exports of Coal, the Produce of Canada, calendar years 1911-33.

NOTE.—For previous years, see 1911 Year Book, p. 421.

| Year.     | Quantity.   | Value.     | Year.     | Quantity.   | Value.     |
|-----------|-------------|------------|-----------|-------------|------------|
|           | short tons. | \$         |           | short tons. | \$         |
| 1911..... | 1,500,639   | -          | 1923..... | 1,654,406   | 10,661,399 |
| 1912..... | 2,127,133   | -          | 1924..... | 773,246     | 4,836,848  |
| 1913..... | 1,562,020   | 3,951,351  | 1925..... | 785,910     | 4,329,173  |
| 1914..... | 1,423,126   | 3,780,175  | 1926..... | 1,028,200   | 5,739,436  |
| 1915..... | 1,766,543   | 5,406,058  | 1927..... | 1,113,330   | 5,890,259  |
| 1916..... | 2,135,359   | 7,099,387  | 1928..... | 863,941     | 4,469,999  |
| 1917..... | 1,733,156   | 7,387,192  | 1929..... | 842,972     | 4,375,328  |
| 1918..... | 1,817,195   | 9,405,423  | 1930..... | 624,512     | 3,345,998  |
| 1919..... | 2,070,050   | 12,438,885 | 1931..... | 359,853     | 1,909,922  |
| 1920..... | 2,558,174   | 18,014,899 | 1932..... | 285,487     | 1,433,036  |
| 1921..... | 1,987,251   | 13,896,370 | 1933..... | 259,233     | 1,188,225  |
| 1922..... | 1,818,582   | 11,159,060 |           |             |            |

**Coal Consumption.**—The sources of the coal consumed in Canada in the calendar years 1911-33 are shown in Table 25, detailed figures of coal *made available for consumption* during 1932 and 1933 are given in Table 26; the difference between the totals of the two tables in the same years is accounted for by the fact that coal received may be held in bond at Canadian ports and not "cleared for consumption" until required, while coal received in previous years may be taken out of bond (cleared for consumption) in a later year. Normally the coal made available for consumption is greater than the apparent domestic consumption, since coal is landed at Canadian ports and re-exported or ex-warehoused for ships' stores without being taken out of bond, but while remaining in bond at the port it is available for domestic consumption if required.

## 25.—Annual Consumption of Canadian and Imported Coal in Canada, by Quantities and Percentages, calendar years 1911-33.

NOTE.—For the years 1886 to 1910, see 1921 Year Book, p. 354.

| Calendar<br>Year. | Canadian<br>Coal. <sup>1</sup> |      | Imported Coal "Entered for Consumption". |                               |                     |      | Grand<br>Total. | Per<br>capita. |
|-------------------|--------------------------------|------|------------------------------------------|-------------------------------|---------------------|------|-----------------|----------------|
|                   |                                |      | From<br>U.S.A.                           | From the<br>United<br>Kingdom | Total. <sup>2</sup> |      |                 |                |
|                   |                                |      |                                          |                               | short<br>tons.      | p.c. |                 |                |
| 1911.....         | 9,822,749                      | 40.5 | 14,510,129                               | 48,963                        | 14,424,949          | 59.5 | 24,247,698      | 3.365          |
| 1912.....         | 12,385,696                     | 46.0 | 14,557,124                               | 38,668                        | 14,549,104          | 54.0 | 26,934,800      | 3.657          |
| 1913.....         | 13,450,158                     | 42.6 | 18,145,769                               | 37,825                        | 18,132,387          | 57.4 | 31,582,545      | 4.196          |
| 1914.....         | 12,214,403                     | 45.5 | 14,687,853                               | 33,101                        | 14,637,920          | 54.5 | 26,852,323      | 3.490          |
| 1915.....         | 11,500,480                     | 48.1 | 12,450,796                               | 15,098                        | 12,406,212          | 51.9 | 23,906,692      | 3.041          |
| 1916.....         | 12,348,026                     | 41.3 | 17,576,202                               | 4,401                         | 17,517,820          | 58.7 | 29,865,856      | 3.717          |
| 1917.....         | 12,313,603                     | 37.2 | 20,848,009                               | 9,451                         | 20,810,132          | 62.8 | 33,123,735      | 4.049          |
| 1918.....         | 13,160,731                     | 37.8 | 21,674,826                               | 3,761                         | 21,611,101          | 62.2 | 34,771,832      | 4.175          |
| 1919.....         | 11,611,168                     | 40.3 | 17,292,913                               | 344                           | 17,236,269          | 59.7 | 28,847,437      | 3.402          |
| 1920.....         | 14,025,566                     | 42.9 | 18,752,981                               | —                             | 18,668,741          | 57.1 | 32,694,307      | 3.788          |
| 1921.....         | 12,715,734                     | 41.1 | 18,300,081                               | 1,591                         | 18,258,387          | 58.9 | 30,974,121      | 3.524          |
| 1922.....         | 13,044,352                     | 50.2 | 12,255,555                               | 765,980                       | 12,962,189          | 49.8 | 26,006,541      | 2.916          |
| 1923.....         | 15,070,962                     | 41.8 | 20,417,239                               | 572,570                       | 20,967,971          | 58.2 | 36,038,933      | 4.000          |
| 1924.....         | 12,529,358                     | 42.8 | 16,405,344                               | 317,112                       | 16,714,143          | 57.2 | 29,243,501      | 3.199          |
| 1925.....         | 12,125,290                     | 42.6 | 15,744,957                               | 604,117                       | 16,331,971          | 57.4 | 28,457,261      | 3.062          |
| 1926.....         | 15,086,296                     | 47.7 | 16,204,405                               | 287,299                       | 16,565,555          | 52.3 | 31,651,851      | 3.349          |
| 1927.....         | 15,944,983                     | 46.7 | 17,266,434                               | 907,220                       | 18,177,303          | 53.3 | 34,122,286      | 3.541          |
| 1928.....         | 16,487,807                     | 50.0 | 15,830,688                               | 682,755                       | 16,515,582          | 50.0 | 33,003,389      | 3.356          |
| 1929.....         | 16,387,461                     | 48.0 | 16,780,452                               | 843,502                       | 17,724,132          | 52.0 | 34,111,593      | 3.402          |
| 1930.....         | 14,052,671                     | 43.3 | 16,971,933                               | 1,144,861                     | 18,412,039          | 56.7 | 32,464,710      | 3.181          |
| 1931.....         | 11,682,779                     | 47.7 | 11,793,798                               | 987,442                       | 12,828,327          | 52.3 | 24,511,106      | 2.362          |
| 1932.....         | 11,212,701                     | 49.0 | 9,889,866                                | 1,727,716                     | 11,654,492          | 51.0 | 22,867,193      | 2.177          |
| 1933.....         | 11,456,273                     | 51.5 | 8,865,935                                | 1,942,875                     | 10,808,962          | 48.5 | 22,265,235      | 2.085          |

<sup>1</sup> The sum of Canadian coal mines sales, colliery consumption, coal supplied to employees, and coal used in making coke, etc., less the tonnage of coal exported.

<sup>2</sup> Includes small tonnages from countries other than the United Kingdom and the United States. Deductions have been made to take account of foreign coal re-exported from Canada and bituminous coal ex-warehoused for ships' stores.

## 26.—Coal Output, Exports, Receipts from Other Countries and Coal Made Available for Consumption in Canada during 1932 and 1933.

(short tons).

NOTE.—For details by provinces, see the Bureau's annual report "Coal Statistics for Canada".

| Grade of Coal.      | Canadian Coal.    |                | Receipts from U.S.A. | Receipts from the United Kingdom. | Receipts from Other Countries. <sup>1</sup> | Coal Made Available for Consumption. |
|---------------------|-------------------|----------------|----------------------|-----------------------------------|---------------------------------------------|--------------------------------------|
|                     | Output.           | Exported.      |                      |                                   |                                             |                                      |
|                     | tons.             | tons.          | tons.                | tons.                             | tons.                                       | tons.                                |
| 1932.               |                   |                |                      |                                   |                                             |                                      |
| Anthracite.....     | —                 | —              | 1,685,532            | 1,399,086                         | 53,539                                      | 3,138,157                            |
| Bituminous.....     | 7,714,279         | 270,293        | 8,170,248            | 362,068                           | 2                                           | 15,976,304                           |
| Sub-bituminous..... | 560,902           | —              | —                    | —                                 | —                                           | 560,902                              |
| Lignite.....        | 3,463,732         | 15,194         | 2,953                | —                                 | —                                           | 3,451,491                            |
| <b>Totals.....</b>  | <b>11,738,913</b> | <b>285,487</b> | <b>9,858,733</b>     | <b>1,761,154</b>                  | <b>53,541</b>                               | <b>23,126,854</b>                    |
| 1933.               |                   |                |                      |                                   |                                             |                                      |
| Anthracite.....     | —                 | —              | 1,429,829            | 1,605,776                         | 8                                           | 3,035,613                            |
| Bituminous.....     | 7,979,283         | 247,464        | 8,089,451            | 338,061                           | 144                                         | 16,159,475                           |
| Sub-bituminous..... | 554,118           | —              | —                    | —                                 | —                                           | 554,118                              |
| Lignite.....        | 3,369,943         | 11,769         | 2,707                | —                                 | —                                           | 3,360,881                            |
| <b>Totals.....</b>  | <b>11,903,344</b> | <b>259,233</b> | <b>9,521,987</b>     | <b>1,943,837</b>                  | <b>152</b>                                  | <b>23,110,087</b>                    |

<sup>1</sup> Includes 52,189 tons from Germany, 700 tons from French East Indies and 650 tons from Belgium in 1932, and 144 tons of bituminous from Germany in 1933.

**World Production.**—The total known coal production of the world in 1933 amounted to about 1,140,000,000 long tons, towards which Canada contributed 10,611,000 long tons or about 0.9 p.c. Table 27 shows the production of the British Empire and the chief foreign countries in units of 1,000 long tons during each of the years 1913 and 1921-33.

## 27.—Coal Produced in the Principal Countries of the World, 1913, 1921-33.

(000 long tons.)

NOTE.—For corresponding figures for 1914 to 1926, see 1932 Year Book, p. 281. Figures in this table were taken from the Imperial Institute's Statistical Summary.

### BRITISH EMPIRE.

| Calendar Year. | United Kingdom. | British India. | Canada. | Australia. | New Zealand. | Union of South Africa. |
|----------------|-----------------|----------------|---------|------------|--------------|------------------------|
| 1913.....      | 287,431         | 16,208         | 13,404  | 12,418     | 1,888        | 9,583                  |
| 1921.....      | 163,251         | 19,303         | 13,444  | 12,878     | 1,809        | 10,645                 |
| 1922.....      | 249,607         | 19,011         | 13,533  | 12,299     | 1,585        | 9,126                  |
| 1923.....      | 276,001         | 19,658         | 15,170  | 12,634     | 1,970        | 11,075                 |
| 1924.....      | 267,118         | 21,174         | 12,180  | 13,885     | 2,083        | 11,633                 |
| 1925.....      | 243,176         | 20,904         | 11,723  | 14,503     | 2,115        | 12,127                 |
| 1926.....      | 126,279         | 20,093         | 14,694  | 14,208     | 2,240        | 12,745                 |
| 1927.....      | 251,232         | 22,082         | 15,560  | 14,978     | 2,367        | 12,382                 |
| 1928.....      | 237,763         | 22,543         | 15,683  | 13,432     | 2,437        | 12,408                 |
| 1929.....      | 257,907         | 23,419         | 15,622  | 12,106     | 2,536        | 12,813                 |
| 1930.....      | 243,882         | 23,803         | 13,287  | 11,363     | 2,542        | 12,030                 |
| 1931.....      | 219,459         | 21,716         | 10,931  | 10,595     | 2,158        | 10,709                 |
| 1932.....      | 208,733         | 20,153         | 10,481  | 11,157     | 1,842        | 9,764                  |
| 1933.....      | 207,112         | 19,789         | 10,611  | 11,672     | 1,821        | 10,545                 |



**27.—Coal Produced in the Principal Countries of the World, 1913, 1921-33—concluded.**  
(000 long tons.)

Note.—For corresponding figures for 1914 to 1920, see 1932 Year Book, p. 281. Figures in this table were supplied by the Imperial Institute.

FOREIGN COUNTRIES.

| Calendar Year. | Saar.  | Germany. | Belgium. | France. | Czecho-slovakia. | Poland. | Netherlands. | Japan. | United States. |
|----------------|--------|----------|----------|---------|------------------|---------|--------------|--------|----------------|
| 1913....       | 1      | 274,264  | 22,474   | 40,188  | —                | —       | 1,843        | 20,973 | 508,893        |
| 1921....       | 2      | 255,148  | 21,401   | 37,916  | 32,174           | 7,717   | 3,978        | 25,944 | 452,139        |
| 1922....       | 2      | 262,878  | 20,868   | 43,118  | 28,385           | 24,300  | 4,525        | 27,420 | 425,849        |
| 1923....       | 2      | 178,191  | 22,554   | 46,981  | 27,380           | 35,686  | 5,249        | 28,633 | 587,407        |
| 1924....       | 2      | 239,494  | 22,986   | 58,035  | 35,066           | 31,793  | 5,975        | 29,801 | 510,369        |
| 1935....       | 12,785 | 267,970  | 22,726   | 47,249  | 30,663           | 28,677  | 6,943        | 31,121 | 519,527        |
| 1926....       | 13,465 | 280,656  | 24,913   | 51,607  | 32,491           | 35,139  | 8,677        | 31,089 | 591,720        |
| 1927....       | 13,381 | 299,511  | 27,130   | 52,021  | 33,106           | 37,560  | 9,374        | 33,177 | 535,625        |
| 1928....       | 12,900 | 312,092  | 27,108   | 51,601  | 34,459           | 40,047  | 10,941       | 33,445 | 514,369        |
| 1929....       | 13,365 | 332,560  | 26,514   | 54,109  | 38,465           | 45,686  | 11,552       | 34,479 | 541,232        |
| 1930....       | 13,027 | 284,148  | 26,982   | 54,163  | 33,098           | 36,968  | 12,160       | 31,007 | 479,385        |
| 1931....       | 11,187 | 247,971  | 26,615   | 51,280  | 30,544           | 37,699  | 12,818       | 27,661 | 394,406        |
| 1932....       | 10,273 | 223,796  | 21,075   | 46,511  | 26,394           | 28,412  | 12,677       | 27,717 | 321,040        |
| 1933....       | 10,394 | 232,978  | 24,878   | 47,184  | 25,357           | 26,957  | 12,471       | 31,857 | 336,908        |

<sup>1</sup>Included with Germany. <sup>2</sup>Included with France.

**Natural Gas and Petroleum.**

**Natural Gas.**—The production of natural gas increased in value from \$1,346,471 in 1910 to \$10,289,985 in 1930 but has since declined to a value of \$8,712,234 in 1933 and \$8,419,073 in 1934. The producing wells in the east are in southwestern Ontario, and near Moncton, N.B. The principal producing fields in Alberta are the Turner Valley (about 35 miles southwest of Calgary), Medicine Hat, Viking (about 80 miles southeast of Edmonton), Redcliff, Foremost (about 6 miles south and east of the town of Foremost), Bow Island and Wetaskiwin. Wainwright is supplied with gas from the Maple Leaf well in the Fabyan field. The quantity of gas sold or used in 1933 was 23,138,103 M cubic feet. Ontario was credited with about 52 p.c. of the total value but only 31 p.c. of the total quantity, while Alberta produced 45 p.c. by value and 66 p.c. of the total quantity. The production by provinces since 1920 is given in Table 28.

**28.—Quantities and Values of Natural Gas Produced in Canada, by Provinces, calendar years 1920-34.**

(For the years 1892 to 1919 see Mineral Production of Canada, 1923, p. 188.)

| Year.     | New Brunswick. |         | Ontario.   |           | Alberta.   |           | Canada. <sup>1</sup> |            |
|-----------|----------------|---------|------------|-----------|------------|-----------|----------------------|------------|
|           | Quantity.      | Value.  | Quantity.  | Value.    | Quantity.  | Value.    | Quantity.            | Value.     |
|           | M cu. ft.      | \$      | M cu. ft.  | \$        | M cu. ft.  | \$        | M cu. ft.            | \$         |
| 1920..... | 682,502        | 130,506 | 10,529,374 | 2,920,731 | 5,633,442  | 1,181,345 | 16,845,518           | 4,232,642  |
| 1921..... | 708,743        | 139,375 | 8,422,774  | 3,080,130 | 4,945,884  | 1,374,599 | 14,077,601           | 4,594,164  |
| 1922..... | 753,898        | 148,040 | 8,060,114  | 4,076,296 | 5,868,439  | 1,622,105 | 14,682,651           | 5,846,501  |
| 1923..... | 640,300        | 126,068 | 8,128,413  | 4,066,244 | 7,191,670  | 1,692,246 | 15,960,583           | 5,884,618  |
| 1924..... | 599,972        | 113,577 | 7,150,078  | 3,798,381 | 7,131,080  | 1,796,618 | 14,881,336           | 5,708,636  |
| 1925..... | 639,235        | 122,394 | 7,143,962  | 3,958,006 | 9,119,500  | 2,752,545 | 16,902,897           | 6,833,005  |
| 1926..... | 648,316        | 128,300 | 7,764,996  | 4,409,593 | 10,794,697 | 3,019,221 | 19,208,209           | 7,557,174  |
| 1927..... | 680,755        | 124,637 | 7,311,215  | 4,331,780 | 13,434,621 | 3,586,533 | 21,376,791           | 8,043,010  |
| 1928..... | 660,981        | 124,344 | 7,632,800  | 4,535,312 | 14,288,605 | 3,754,466 | 22,582,586           | 8,614,182  |
| 1929..... | 678,456        | 133,002 | 8,586,475  | 4,959,695 | 19,112,931 | 4,681,247 | 28,378,462           | 9,977,124  |
| 1930..... | 661,975        | 125,751 | 7,965,761  | 5,034,828 | 20,748,583 | 4,929,226 | 29,376,919           | 10,289,985 |
| 1931..... | 655,891        | 123,184 | 7,419,534  | 4,635,497 | 17,798,698 | 4,067,893 | 25,874,723           | 9,026,754  |
| 1932..... | 662,452        | 126,191 | 7,386,154  | 4,719,297 | 15,370,968 | 3,853,794 | 23,420,174           | 8,899,462  |
| 1933..... | 618,033        | 102,706 | 7,166,659  | 4,523,085 | 15,352,811 | 3,886,263 | 23,138,103           | 8,712,234  |
| 1934..... | 607,090        | 103,000 | 7,327,474  | 4,396,484 | 14,000,000 | 3,720,586 | 21,948,555           | 8,419,073  |

<sup>1</sup> Totals for Canada include small productions in Manitoba and Saskatchewan.

<sup>2</sup> Preliminary figures.

**Petroleum.**—The production of crude petroleum in Canada during 1931 was the greatest on record and amounted to 1,542,573 barrels. Output, however, declined to 1,044,412 barrels in 1932, rising again to 1,145,333 barrels in 1933. Production during 1934 was estimated as 1,417,368 barrels. The Turner Valley field in Alberta is the principal source of production in Canada. The wells in this field give a wet gas from which a very high grade of crude naphtha is separated. The Red Coudée field in southern Alberta, near the International Boundary, began to yield some petroleum in 1929, while a small production has been obtained for a number of years in the Wainwright field, about 120 miles east of Edmonton, where the oil is heavy and of a lower grade. Production from wells near Fort Norman on the lower Mackenzie river increased from 910 barrels in 1932 to 4,438 barrels in 1934. This oil was treated locally in a small refining plant and was used to a large extent in connection with mining operations in the Great Bear Lake area.

The principal Ontario oil fields are situated in the southwestern peninsula between lake Huron and lake Erie. These fields reached their maximum production in the '90's and have since declined. New Brunswick's small production comes from the Stony Creek field, near Moncton. For the production by provinces in 1932 and 1933 see Tables 5 and 5A of this chapter.

## 29.—Quantities and Values of Crude Petroleum Produced in Canada, calendar years 1911-34.

NOTE.—For figures for the years 1886-1910, inclusive, see p. 377 of the 1933 Year Book.

| Year.   | Quantity.         | Value.  | Year.     | Quantity.         | Value.    | Year.     | Quantity.         | Value.    |
|---------|-------------------|---------|-----------|-------------------|-----------|-----------|-------------------|-----------|
|         | brl. <sup>1</sup> | \$      |           | brl. <sup>1</sup> | \$        |           | brl. <sup>1</sup> | \$        |
| 1911... | 291,092           | 357,073 | 1919..... | 240,466           | 736,324   | 1927..... | 476,591           | 1,516,043 |
| 1912... | 243,336           | 345,050 | 1920..... | 196,251           | 822,235   | 1928..... | 624,184           | 2,035,300 |
| 1913... | 228,080           | 406,439 | 1921..... | 187,541           | 641,533   | 1929..... | 1,117,368         | 3,731,764 |
| 1914... | 214,805           | 343,124 | 1922..... | 179,068           | 611,176   | 1930..... | 1,522,220         | 5,033,820 |
| 1915... | 215,464           | 300,572 | 1923..... | 170,169           | 522,018   | 1931..... | 1,542,573         | 4,211,674 |
| 1916... | 198,123           | 392,284 | 1924..... | 160,773           | 467,400   | 1932..... | 1,044,412         | 3,022,592 |
| 1917... | 213,832           | 542,239 | 1925..... | 332,001           | 1,250,705 | 1933..... | 1,145,333         | 3,138,791 |
| 1918... | 304,741           | 885,143 | 1926..... | 364,444           | 1,311,665 | 1934..... | 1,417,368         | 3,558,482 |

<sup>1</sup> The barrel = 35 Imp. gal.

<sup>2</sup> Preliminary figures.

### Subsection 2.—Other Non-Metallic Minerals.

**Asbestos.**—Canada produces more asbestos than any other country. The value of the annual output of asbestos increased from less than \$25,000 in 1880 to \$14,792,201 in 1920 and \$13,172,581 in 1929. Owing to trade depression, production has been curtailed since 1929 as will be seen in Table 30. However, in 1933 and 1934, production showed a distinct improvement over the immediately preceding years. The Imperial Institute has not given an estimate for the world total of asbestos production since 1931 owing to the lack of statistics for Russia, the world's second largest producer. In 1931 Russian production was estimated at 63,653 long tons and it has probably increased slightly since then. In 1933 Canada produced about 141,400 long tons, or more than half the world total, while other leading countries with their production in long tons were: Southern Rhodesia, 26,948; Union of South Africa, 15,185; United States, 4,237; and Cyprus, 3,494.

**Quebec.**—The Eastern Townships has for many years been the most productive asbestos-mining area in the world. The most important deposits are at Black lake, in Coleraine township; at Thetford and Robertsonville, in Thetford

township; at East Broughton, in Broughton township; and at Danville, in Shipton township. The veins of chrysotile asbestos traverse the serpentine in all directions, and as a rule the fibre lies at right angles to the walls of the veins. The veins vary in width from  $\frac{1}{4}$  inch to  $\frac{1}{2}$  inch and occasionally fibre has been obtained several inches in length. The fibre is of good quality and well adapted for spinning.

Both open-cut and underground methods of mining are employed throughout the Canadian asbestos fields. Nearly all the mining companies have installed machinery for the crushing, fibrizing, screening and grading of the mine product. In addition, 10 plants in Canada manufacture asbestos products, including the following commodities; asbestos paper and mill board; asbestos roofing of all kinds; asbestos rigid shingles; asbestos building materials; asbestos cellular and sponge-felted pipe insulation; insulating sheets and blocks; asbestos brake linings and clutch facings (woven on special looms); and asbestos packings for steam, oil and hydraulic operations.

### 30.—Quantities and Values of Asbestos Produced in Canada, calendar years 1911-34.

NOTE.—Figures for the years 1896-1910 are given in the 1911 Year Book, p. 424.

| Year.     | Quantity. <sup>1</sup> | Value. <sup>1</sup> | Year.                   | Quantity. <sup>1</sup> | Value. <sup>1</sup> |
|-----------|------------------------|---------------------|-------------------------|------------------------|---------------------|
|           | tons.                  | \$                  |                         | tons.                  | \$                  |
| 1911..... | 127,414                | 2,943,108           | 1923.....               | 231,482                | 7,522,506           |
| 1912..... | 136,301                | 3,137,279           | 1924.....               | 225,744                | 6,710,830           |
| 1913..... | 161,086                | 3,849,925           | 1925.....               | 273,524                | 8,977,546           |
| 1914..... | 117,573                | 2,909,806           | 1926.....               | 279,403                | 10,099,423          |
| 1915..... | 136,842                | 3,574,985           | 1927.....               | 274,778                | 10,621,013          |
| 1916..... | 154,149                | 5,228,869           | 1928.....               | 273,033                | 11,238,360          |
| 1917..... | 153,781                | 7,230,383           | 1929.....               | 306,055                | 13,172,581          |
| 1918..... | 158,259                | 8,970,797           | 1930.....               | 242,114                | 8,390,163           |
| 1919..... | 159,236                | 10,975,369          | 1931.....               | 164,296                | 4,812,886           |
| 1920..... | 199,573                | 14,792,201          | 1932.....               | 122,977                | 3,039,721           |
| 1921..... | 92,761                 | 4,906,230           | 1933.....               | 158,367                | 5,211,177           |
| 1922..... | 163,706                | 5,552,723           | 1934 <sup>2</sup> ..... | 155,980                | 4,936,326           |

<sup>1</sup> The quantities and values of sand, gravel and rock separated as a by-product in milling asbestos are included in the totals for 1924 and previous years, but are excluded in later years. <sup>2</sup> Preliminary figures.

**Gypsum.**—Many large deposits of gypsum occur throughout Canada, but the production is chiefly from Hants, Inverness and Victoria counties, Nova Scotia; Hillsborough, New Brunswick; Paris, Ontario; Gypsumville and Amaranth, Manitoba; and Falkland and Mayook, British Columbia. The Hillsborough deposit of gypsum in New Brunswick is of very high grade. Nearly 50 p.c. of Canada's production is exported in crude forms from the Nova Scotia deposits, which are conveniently situated for ocean shipping and account for about 75 p.c. of the total Canadian production. Production of gypsum in Canada reached its highest point in 1928 with 1,246,368 tons valued at \$3,743,648. Production during 1933 was 382,736 tons valued at \$675,822 and preliminary figures for 1934 are 461,194 tons valued at \$864,204. The production by provinces during 1933 is shown in Table 5A, p. 386.

**Salt.**—The greater part of the Canadian salt production comes from wells located in southwestern Ontario, but the Malagash deposits in Nova Scotia show an increasing production in recent years and some shipments have been made from deposits near McMurray in Alberta. The first production of commercial importance in Manitoba was recorded in 1932 and for Saskatchewan in 1933.



The Canadian production during the present century has shown fairly steady growth from 59,428 tons in 1901 to 91,582 in 1911, 164,658 in 1921, 262,547 in 1926 and a high record of 330,264 tons in 1929. Production declined to 259,047 tons in 1931 but has since recovered to 280,115 tons valued at \$1,939,874 in 1933 (see Tables 2 and 5A of this chapter). The estimate for 1934 was 321,753 tons.

## Section 6.—Production of Clay Products and Other Structural Materials.

Production of these materials is naturally dependent upon the activity of the construction industry in Canada. Building and construction work fluctuates widely with business cycles and during the recent depression dropped to a very low ebb. Under these circumstances the production of clay products, cement, gravel and stone was severely curtailed. Some uncompleted large engineering construction operations and governmental relief projects eased the decline in the early years of the depression but the downward trend was evident into 1933. It is encouraging to observe, however, that with a moderate recovery of construction activities in 1934 there was an increase in the estimated production of the chief structural materials, the total estimated value of production being \$19,233,092 as compared with \$16,696,687 in 1933.

**Brick and Tile.**—Although the brick and tile industry is established in every province of the Dominion, production is naturally greatest near the chief centres of population, that is, in Ontario and Quebec. Here the widespread clays of glacial and post-glacial age occurring over considerable areas of the St. Lawrence Lowlands have furnished the materials for numerous brick and tile industries. Production fluctuates with building activity and reached its highest point in the year 1912. Since that time the gradual substitution of steel and reinforced concrete for brick has reduced the production of brick so that, while the value of construction undertaken in 1928 or 1929 is estimated to have exceeded that of 1912, the quantity of brick produced in the later years was only about half that of 1912. On the other hand, as will be seen from Table 31, the production and consumption of cement in 1929 greatly exceeded that of 1912 or 1913. The production of building brick of various types in 1932 and 1933 is shown in Table 2 of this chapter, while the production by provinces in 1932 and 1933 is given in Tables 5 and 5A. Estimated production in 1934 is given in Table 2A.

**Cement.**—The cement industry in Canada began with the manufacture of hydraulic or natural rock cement. The first production was probably at Hull, Quebec, between 1830 and 1840. The manufacture of Portland cement began about 1889. Owing to its superiority in uniformity and strength, it soon superseded the older product. Portland cement consists of an accurately proportioned mixture of lime, silica and alumina. The lime is usually furnished by limestone or marl, and the silica and alumina by clay or shale. The cement industry has naturally become established where these materials are situated and where fuel supplies and transportation are readily available. The largest production is in Quebec and Ontario, although there are also active plants in Manitoba, Alberta and British Columbia. As may be seen from Table 31, production declined greatly from 1929 to 1933, but recovered somewhat in 1934. Production by provinces in 1932 and 1933 is given in Tables 5 and 5A of this chapter. Whereas in pre-war years Canada was an importer of Portland cement she is now on balance an exporter of this commodity.



**31.—Production, Imports, Exports and Apparent Consumption of Portland Cement, by Quantities and Values, calendar years 1910-34.**

| Year.                   | Production. <sup>2</sup> |            | Imports.          |           | Exports. <sup>3</sup> |           | Apparent Consumption. |            |
|-------------------------|--------------------------|------------|-------------------|-----------|-----------------------|-----------|-----------------------|------------|
|                         | Quantity.                | Value.     | Quantity.         | Value.    | Quantity.             | Value.    | Quantity.             | Value.     |
|                         | brl. <sup>1</sup>        | \$         | brl. <sup>1</sup> | \$        | brl. <sup>1</sup>     | \$        | brl. <sup>1</sup>     | \$         |
| 1910.....               | 4,753,975                | 6,412,215  | 349,415           | 468,395   | —                     | 12,914    | 5,103,285             | 6,867,696  |
| 1911.....               | 5,692,915                | 7,644,537  | 669,532           | 840,986   | —                     | 4,067     | 6,354,831             | 8,481,456  |
| 1912.....               | 7,132,732                | 9,106,556  | 1,434,413         | 1,969,529 | —                     | 2,436     | 8,567,145             | 11,073,649 |
| 1913.....               | 8,658,805                | 11,019,418 | 254,093           | 409,303   | —                     | 1,736     | 8,912,898             | 11,426,985 |
| 1914.....               | 7,172,480                | 9,187,924  | 98,022            | 147,158   | —                     | 2,223     | 7,270,502             | 9,332,859  |
| 1915.....               | 5,681,032                | 6,977,024  | 28,190            | 40,426    | —                     | 5,161     | 5,709,222             | 7,012,289  |
| 1916.....               | 5,369,560                | 6,547,728  | 20,596            | 31,621    | —                     | 2,424     | 5,390,156             | 6,576,925  |
| 1917.....               | 4,768,488                | 7,724,246  | 8,580             | 19,646    | —                     | 16,857    | 4,777,068             | 7,727,035  |
| 1918.....               | 3,591,481                | 7,076,503  | 5,913             | 19,851    | —                     | 13,752    | 3,597,394             | 7,082,602  |
| 1919.....               | 4,995,257                | 9,802,433  | 14,066            | 51,314    | 177,506               | 465,954   | 4,831,817             | 9,387,793  |
| 1920.....               | 6,651,980                | 14,798,070 | 32,963            | 112,466   | 835,667               | 2,193,626 | 5,849,276             | 12,716,910 |
| 1921.....               | 5,752,885                | 14,195,143 | 12,057            | 75,670    | 242,345               | 650,658   | 5,522,597             | 13,620,155 |
| 1922.....               | 6,943,972                | 15,438,481 | 30,914            | 83,037    | 425,137               | 699,738   | 6,549,749             | 14,821,780 |
| 1923.....               | 7,543,589                | 15,064,661 | 17,697            | 75,294    | 493,751               | 824,811   | 7,067,535             | 14,315,144 |
| 1924.....               | 7,498,624                | 13,398,411 | 27,672            | 69,320    | 153,520               | 213,845   | 7,372,776             | 13,253,886 |
| 1925.....               | 8,116,597                | 14,046,704 | 21,849            | 63,067    | 997,915               | 1,498,495 | 7,140,531             | 12,611,276 |
| 1926.....               | 8,707,021                | 13,013,283 | 21,114            | 77,866    | 285,932               | 358,231   | 8,442,303             | 12,732,918 |
| 1927.....               | 10,065,865               | 14,391,937 | 19,354            | 87,541    | 249,694               | 308,144   | 9,835,525             | 14,171,334 |
| 1928.....               | 11,023,928               | 16,739,163 | 34,047            | 146,164   | 267,325               | 340,624   | 10,790,650            | 16,544,703 |
| 1929.....               | 12,284,081               | 19,337,235 | 55,980            | 189,169   | 234,111               | 252,955   | 12,105,950            | 19,273,449 |
| 1930.....               | 11,032,538               | 17,713,067 | 143,436           | 569,848   | 198,736               | 212,071   | 10,977,238            | 18,070,844 |
| 1931.....               | 10,161,658               | 15,826,243 | 38,392            | 143,491   | 114,064               | 124,267   | 10,085,986            | 15,845,467 |
| 1932.....               | 4,498,721                | 6,930,721  | 21,351            | 58,092    | 53,333                | 38,921    | 4,466,739             | 6,949,892  |
| 1933.....               | 3,007,432                | 4,536,935  | 19,119            | 37,768    | 52,531                | 47,369    | 2,974,020             | 4,527,334  |
| 1934 <sup>4</sup> ..... | 3,783,226                | 5,667,946  | 14,341            | 45,548    | 70,046                | 55,181    | 3,727,521             | 5,658,313  |

<sup>1</sup>The barrel of cement = 350 lb. or 3½ cwt. <sup>2</sup>"Production" as used here means quantity and value of sales. <sup>3</sup>Quantities of exports were insignificant prior to 1919. <sup>4</sup>Preliminary figures.

**Stone, Sand and Gravel.**—While the Mineral Branch of the Dominion Bureau of Statistics presents details of the production and industrial organization of the stone industry separately from that of sand and gravel, for the sake of brevity they are here discussed together. Production of these materials increased greatly up to the recent world depression. The expansion in the stone industry was chiefly in crushed stone. Thus a production of crushed stone in 1922 of 3,044,399 tons had increased in 1930 to 8,062,330 tons, while in the same period the production of sand and gravel increased from 11,666,374 tons to 28,547,511 tons. During the depression the output contracted sharply as shown by the figures in Table 32. Estimates for 1934 indicate some recovery to 3,661,800 tons for total stone and 13,521,257 tons for sand and gravel. Among the developments in Canada which have resulted in the increased production of these materials prior to the depression may be mentioned: (1) the tendency for brick to be replaced by reinforced concrete, cement blocks, etc., as indicated on p. 420 by a decline in brick production and an increase in that of cement; (2) the vast improvement during the past decade in the mileage and character of roads and highways in Canada; and (3) the improvement of railway road-beds.

The provincial distribution of the 1932 and 1933 production of stone, sand and gravel is shown in Tables 5 and 5A, while the chief purposes for which these materials were produced are shown in Table 32.

**32.—Production of Sand, Gravel and Stone in Canada, Showing the Principal Purposes, calendar years 1931-33.**

| Material and Purpose.                                       | 1931.             |                   | 1932.             |                  | 1933.             |                  |
|-------------------------------------------------------------|-------------------|-------------------|-------------------|------------------|-------------------|------------------|
|                                                             | Quantity.         | Value.            | Quantity.         | Value.           | Quantity.         | Value.           |
|                                                             | tons.             | \$                | tons.             | \$               | tons.             | \$               |
| <b>Sand—</b>                                                |                   |                   |                   |                  |                   |                  |
| Moulding sand.....                                          | 13,881            | 9,940             | 8,493             | 5,355            | 7,717             | 9,635            |
| For building, concrete, roads, etc....                      | 3,189,248         | 1,069,210         | 2,368,304         | 745,091          | 775,412           | 218,559          |
| Other.....                                                  | 135,395           | 46,360            | 44,488            | 14,599           | 33,718            | 6,411            |
| <b>Sand and Gravel—</b>                                     |                   |                   |                   |                  |                   |                  |
| For railway ballast.....                                    | 3,593,451         | 459,531           | 2,097,224         | 324,648          | 561,538           | 110,449          |
| For concrete, roads, etc.....                               | 14,352,283        | 4,784,298         | 9,604,113         | 3,181,105        | 9,957,832         | 3,907,911        |
| Crushed gravel.....                                         | 464,328           | 281,826           | 347,320           | 209,798          | 402,606           | 211,320          |
| <b>Totals, Sand and Gravel.....</b>                         | <b>21,748,586</b> | <b>6,651,165</b>  | <b>14,469,942</b> | <b>4,480,596</b> | <b>11,738,823</b> | <b>4,464,285</b> |
| <b>Stone—</b>                                               |                   |                   |                   |                  |                   |                  |
| Building.....                                               | 129,345           | 3,717,993         | 62,951            | 1,035,571        | 40,299            | 340,852          |
| Monumental and ornamental.....                              | 11,384            | 346,410           | 8,085             | 274,645          | 7,520             | 281,516          |
| Limestone for flux.....                                     | 174,199           | 133,084           | 92,356            | 71,896           | 95,174            | 72,858           |
| Stone for pulp and paper, sugar and chemical factories..... | 158,974           | 180,214           | 134,610           | 116,924          | 219,292           | 223,262          |
| Rubble and riprap.....                                      | 641,037           | 487,717           | 412,845           | 316,353          | 174,716           | 136,519          |
| Crushed.....                                                | 7,050,261         | 5,608,166         | 3,866,962         | 2,879,888        | 2,288,065         | 1,704,076        |
| <b>Totals, Stone<sup>1</sup>.....</b>                       | <b>8,397,860</b>  | <b>11,070,184</b> | <b>4,690,922</b>  | <b>4,938,461</b> | <b>2,939,574</b>  | <b>2,996,576</b> |

<sup>1</sup>Totals include minor items not specified.

The quantities and values of stone produced, given in the table above, represent only the production of those establishments which actually quarry their own stone and are exclusive of the products of the stone-dressing industry comprising those establishments which buy rough stone and dress, polish or finish it; although, dressing operations are frequently carried on right at the quarry and to that extent cannot be separated from the primary production. Of the total stone produced in 1933 over 87 p.c. was limestone, 9 p.c. granite, 3 p.c. sandstone and less than 0.4 p.c. marble. The average value per ton was \$0.83 for limestone, \$2.65 for granite, \$1.09 for sandstone and \$6.05 for marble. The marble was used chiefly for stucco dash, in pulp and paper mills and as dressed building stone. Of the other three kinds of stone by far the largest part was used as crushed stone.

## CHAPTER XIII.—WATER POWERS.

The fresh-water area of Canada is officially estimated at 228,070 square miles—an area nearly twice as large as the whole land area of the British Isles, and certainly larger than the fresh-water area of any other country in the world. As many parts of this well-watered country are situated at a considerable height above sea-level, there are great sources of potential energy in the rapids and waterfalls of the rivers conveying the water from these areas to the sea. Water power, therefore, is among the chief natural resources of Canada, and its development has in recent years contributed materially to swell the volume of Canadian production.

This Water Power chapter of the Year Book is divided into three sections: the first describes our water powers, their development and use in industry; the second deals with the Canadian central electric station industry, which is based almost wholly upon hydro-electric power; the third treats of the public ownership of hydro-electric power in Ontario, the chief manufacturing area, and also describes the policies of the Hydro-Electric or Power Commissions in other provinces.

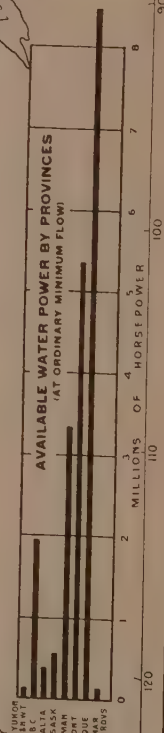
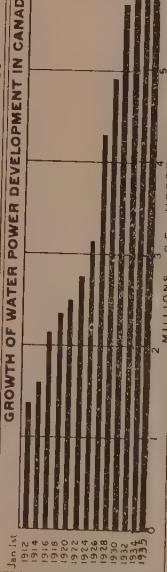
### Section 1.—The Water Powers of Canada.\*

The progress of civilization in its material aspects may be measured by the extent to which the resources of nature are adapted to the uses of mankind. These resources yield, in the first instance, raw materials such as coal and iron, cotton and lumber, hides and wool, which enter into so many things that they are spoken of as basic commodities. Energy, until comparatively recently, was largely secured by the combustion of coal and was therefore looked upon as a secondary product, whereas, when produced from falling water, it is just as much a primary product as coal itself. Energy now enters so largely into the scheme of modern existence that it is recognized as a basic commodity. Statistics concern themselves with kilowatt hours of electrical energy produced just as with the production of pig iron, coal or cotton, and take note of undeveloped water power as being a source of raw material just as important as uncut forests or untapped oil fields. The relationship of power to production is of such vital consequence that every nation, besides considering its own power-producing resources, is deeply interested in the similar resources of other countries and the method of their development. To facilitate a study of world power conditions two Plenary World Power Conferences composed of representatives from 47 member states have already been held to consider the technical, economic and statistical aspects of power development. Arrangements for the future re-convening of such conferences have been made.

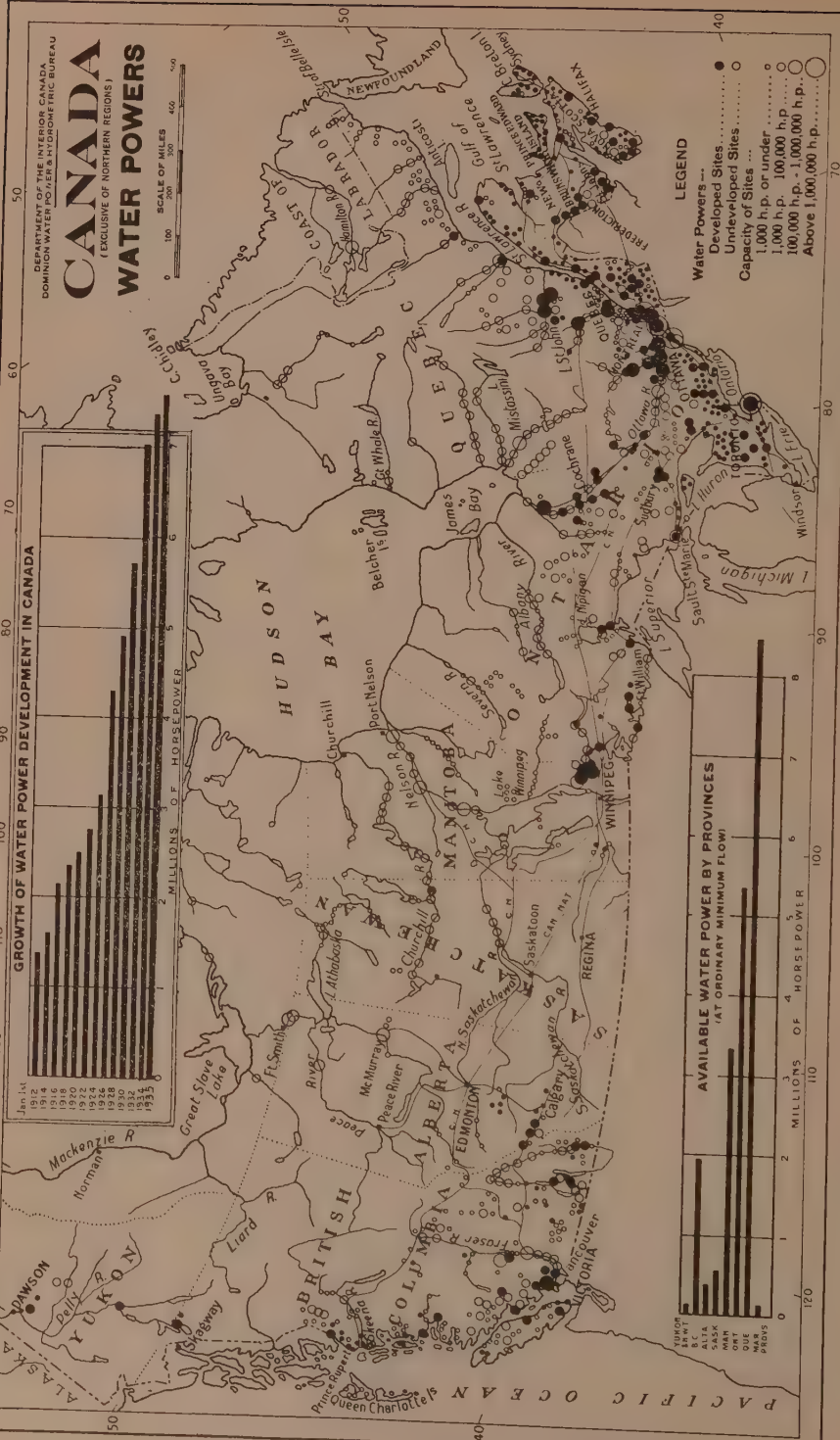
Canada is richly endowed with water-power resources and is in the forefront as regards their utilization. In fact, practically every large industrial centre throughout the Dominion is now served with hydro-electric energy and has within practical transmission distance substantial reserves for the future. More than 95 p.c. of the total main plant equipment of the central electric stations of Canada is hydro-power, and this equipment generates more than 98 p.c. of the total electrical output. Indeed, water power is a mainspring of industrial progress in the central provinces, which have no indigenous coal supplies. Table 1 shows the provincial distribution of available and developed power in Canada at Jan. 1, 1935.

\* By J. T. Johnston, Director, Dominion Water Power and Hydrometric Bureau, Department of the Interior.

**CANADA**  
(EXCLUSIVE OF NORTHERN REGIONS)  
**WATER POWERS**



**Water Powers ...**  
**Developed Sites** 1,000 h.p. or under 100,000  
**Undeveloped Sites** 1,000 h.p. 100,000  
**Capacity of Sites** 100,000 h.p. - 1,000,000  
**Above 1,000,000**





## 1.—Available and Developed Water Power in Canada, by Provinces, Jan. 1, 1935.

| Province and Territory.              | Available 24-hour<br>Power at 80 p.c.<br>Efficiency. |                                       | Turbine<br>Installation. |
|--------------------------------------|------------------------------------------------------|---------------------------------------|--------------------------|
|                                      | At<br>Ordinary<br>Minimum<br>Flow.                   | At<br>Ordinary<br>Six Months<br>Flow. |                          |
|                                      | h.p.                                                 | h.p.                                  | h.p.                     |
| Prince Edward Island.....            | 3,000                                                | 5,300                                 | 2,439                    |
| Nova Scotia.....                     | 20,800                                               | 128,300                               | 116,367                  |
| New Brunswick.....                   | 68,600                                               | 169,100                               | 133,681                  |
| Quebec.....                          | 8,459,000                                            | 13,064,000                            | 3,703,320                |
| Ontario.....                         | 5,330,000                                            | 6,940,000                             | 2,355,755                |
| Manitoba.....                        | 3,309,000                                            | 5,344,500                             | 390,925                  |
| Saskatchewan.....                    | 542,000                                              | 1,082,000                             | 42,035                   |
| Alberta.....                         | 390,000                                              | 1,049,500                             | 71,597                   |
| British Columbia.....                | 1,931,000                                            | 5,103,500                             | 717,717                  |
| Yukon and Northwest Territories..... | 294,000                                              | 731,000                               | 13,199                   |
| <b>Canada.....</b>                   | <b>20,347,400</b>                                    | <b>33,617,200</b>                     | <b>7,547,035</b>         |

The figures of available power in the above table are based upon rapids, falls and power sites of which the actual existent drop, or the head of possible concentration, is definitely known or at least well established. Innumerable rapids and falls of greater or smaller power capacity, not as yet recorded, are scattered on rivers and streams from coast to coast and will only become available for tabulation as more detailed survey work is undertaken and completed. This is particularly true of the less explored northern districts. Nor is any consideration given to the power concentrations which are feasible on rivers and streams of gradual gradient, where economic heads may be created by the construction of power dams, excepting only at points where definite studies have been carried out and the results made matters of record.

The turbine installation in the above table represents the actual water wheels installed throughout the Dominion, but these figures should not be placed in direct comparison with the available power figures for the purpose of deducing therefrom the percentage of the available water-power resources developed to date. The actual water-wheel installation throughout the Dominion averages 30 p.c. greater than corresponding maximum available power figures calculated at ordinary six months flow. The figures quoted above, therefore, indicate that the "at present recorded water-power resources" of the Dominion will permit of a turbine installation of about 43,700,000 h.p. In other words, the present turbine installation represents only about 17 p.c. of the present recorded water-power resources.

The above figures may be said to represent the minimum water-power possibilities of the Dominion. To illustrate, detailed analyses of the water-power resources of the provinces of New Brunswick and Nova Scotia have disclosed advantageous reservoir facilities for regulating stream flow. It is estimated that the two provinces possess within their respective borders 200,000 and 300,000 commercial horse power.

**Growth of Water-Power Development.**—The commencement of the long distance transmission of electricity at the beginning of the present century resulted in the extensive development of hydro-electricity for distribution over wide areas. The growth of installation during the period from 1900 to 1934 is shown, by provinces, in Table 2.

## 2.—Hydraulic Turbine Horse Power Installed in Canada, by Provinces, as at Dec. 31, 1900-34.

NOTE.—Turbine horse power in Yukon was 5 from 1900 to 1906, 2,085 in 1907, 2,095 in 1908, 3,195 in 1909 and 1910, 13,195 from 1911 to 1913, and 13,199 from 1914 to 1934. These figures are included in the totals for Canada.

| Year.    | P.E.I. | Nova Scotia. | New Brunswick. | Quebec.   | Ontario.  | Manitoba. | Saskatchewan. | Alberta. | British Columbia. | Canada.   |
|----------|--------|--------------|----------------|-----------|-----------|-----------|---------------|----------|-------------------|-----------|
|          | h.p.   | h.p.         | h.p.           | h.p.      | h.p.      | h.p.      | h.p.          | h.p.     | h.p.              | h.p.      |
| 1900.... | 1,521  | 19,810       | 4,601          | 82,864    | 53,876    | 1,000     | —             | 280      | 9,366             | 173,323   |
| 1901.... | 1,551  | 20,132       | 4,601          | 139,149   | 62,788    | 1,000     | —             | 280      | 9,366             | 238,902   |
| 1902.... | 1,641  | 21,944       | 4,636          | 152,783   | 77,022    | 1,000     | —             | 280      | 13,266            | 272,577   |
| 1903.... | 1,641  | 23,518       | 7,427          | 164,258   | 79,909    | 1,000     | —             | 355      | 20,346            | 298,459   |
| 1904.... | 1,641  | 26,228       | 8,459          | 179,468   | 111,697   | 1,000     | —             | 355      | 26,393            | 355,249   |
| 1905.... | 1,663  | 26,563       | 8,594          | 183,799   | 202,896   | 1,000     | —             | 355      | 29,334            | 454,209   |
| 1906.... | 1,701  | 26,952       | 10,134         | 205,211   | 279,028   | 38,800    | —             | 355      | 45,816            | 608,002   |
| 1907.... | 1,701  | 27,977       | 10,172         | 242,582   | 345,404   | 38,800    | —             | 355      | 58,570            | 727,646   |
| 1908.... | 1,701  | 28,419       | 10,407         | 269,814   | 410,079   | 38,800    | —             | 655      | 58,610            | 820,580   |
| 1909.... | 1,734  | 29,381       | 10,507         | 305,556   | 437,613   | 38,800    | —             | 655      | 63,048            | 890,489   |
| 1910.... | 1,760  | 31,476       | 11,197         | 334,763   | 490,821   | 38,800    | 30            | 655      | 64,274            | 977,171   |
| 1911.... | 1,760  | 32,226       | 13,635         | 468,977   | 634,263   | 64,800    | 30            | 14,855   | 119,393           | 1,363,134 |
| 1912.... | 1,785  | 32,773       | 15,185         | 513,635   | 659,190   | 64,800    | 30            | 15,035   | 165,838           | 1,481,466 |
| 1913.... | 1,825  | 32,964       | 15,185         | 551,871   | 751,545   | 64,800    | 30            | 32,835   | 224,680           | 1,688,930 |
| 1914.... | 1,843  | 33,469       | 15,380         | 664,139   | 858,534   | 78,850    | 30            | 33,100   | 252,690           | 1,951,244 |
| 1915.... | 1,942  | 33,596       | 15,405         | 803,788   | 871,309   | 78,850    | 30            | 33,110   | 254,265           | 2,105,492 |
| 1916.... | 1,962  | 33,656       | 15,480         | 836,394   | 921,158   | 78,850    | 30            | 33,110   | 288,330           | 2,222,169 |
| 1917.... | 1,989  | 34,051       | 16,251         | 856,769   | 955,955   | 78,850    | 30            | 33,122   | 287,169           | 2,287,385 |
| 1918.... | 2,198  | 34,318       | 16,311         | 905,303   | 981,313   | 85,325    | 35            | 33,122   | 307,533           | 2,378,657 |
| 1919.... | 2,233  | 35,193       | 19,126         | 936,903   | 1,036,550 | 85,325    | 35            | 33,122   | 308,364           | 2,470,050 |
| 1920.... | 2,233  | 37,623       | 21,976         | 955,096   | 1,057,422 | 85,325    | 35            | 33,122   | 309,534           | 2,515,559 |
| 1921.... | 2,252  | 48,008       | 30,976         | 1,050,338 | 1,165,940 | 99,125    | 35            | 33,122   | 310,262           | 2,754,157 |
| 1922.... | 2,274  | 49,142       | 42,051         | 1,099,404 | 1,305,536 | 134,025   | 35            | 33,122   | 329,557           | 3,008,345 |
| 1923.... | 2,274  | 50,331       | 43,101         | 1,135,481 | 1,396,166 | 162,025   | 35            | 33,122   | 356,118           | 3,191,852 |
| 1924.... | 2,274  | 65,572       | 44,521         | 1,312,550 | 1,595,396 | 162,025   | 35            | 34,532   | 360,492           | 3,590,596 |
| 1925.... | 2,274  | 65,637       | 42,271         | 1,749,975 | 1,802,562 | 183,925   | 35            | 34,532   | 443,852           | 4,338,262 |
| 1926.... | 2,274  | 66,147       | 47,131         | 1,886,042 | 1,808,246 | 227,925   | 35            | 34,532   | 463,852           | 4,549,383 |
| 1927.... | 2,274  | 68,416       | 47,131         | 2,069,518 | 1,832,655 | 255,925   | 35            | 34,532   | 475,232           | 4,798,917 |
| 1928.... | 2,439  | 74,356       | 67,131         | 2,387,118 | 1,903,705 | 311,925   | 35            | 34,532   | 554,792           | 5,349,232 |
| 1929.... | 2,439  | 109,124      | 112,631        | 2,595,430 | 1,952,055 | 311,925   | 35            | 70,532   | 559,792           | 5,727,162 |
| 1930.... | 2,439  | 114,224      | 123,681        | 2,718,130 | 2,088,055 | 311,925   | 42,035        | 70,532   | 630,792           | 6,125,012 |
| 1931.... | 2,439  | 111,999      | 133,681        | 3,100,330 | 2,145,205 | 390,925   | 42,035        | 70,532   | 655,992           | 6,666,337 |
| 1932.... | 2,439  | 112,167      | 133,681        | 3,357,320 | 2,208,105 | 390,925   | 42,035        | 71,597   | 713,792           | 7,045,260 |
| 1933.... | 2,439  | 112,167      | 133,681        | 3,493,320 | 2,355,105 | 390,925   | 42,035        | 71,597   | 717,602           | 7,332,070 |
| 1934.... | 2,439  | 116,367      | 133,681        | 3,703,320 | 2,355,755 | 390,925   | 42,035        | 71,597   | 717,717           | 7,547,035 |

**Distribution of Developed Water Power.**—An analysis is made in Table 3 of the distribution of developed water power among central electric stations, pulp and paper-mills and other industries. The extent to which pulp and paper manufacturing is dependent on water power is clearly shown by the figures of Table 3, which indicate that 8.2 p.c. of the developed power is installed by pulp and paper companies, in comparison with 4.8 p.c. developed by all other industries (excluding central electric stations). The pulp and paper industry also purchases a large amount of power from the central electric stations, and about 90 p.c. of its machinery is driven by water power. The bulk of the water power used in other industries is developed by central electric stations, converted into electricity and delivered to the various industrial plants.

### 3.—Developed Water Power in Canada: Distribution, by Provinces and Industries, and per 1,000 Population, as at Jan. 1, 1935.

NOTE.—The figures in this table are preliminary and are subject to correction when official data are complete.

| Province.                            | Turbine Installation in H.P.               |                                       |                                   |                  | Population, June 1, 1934. <sup>4</sup> | Total Installation per 1,000 Population. |
|--------------------------------------|--------------------------------------------|---------------------------------------|-----------------------------------|------------------|----------------------------------------|------------------------------------------|
|                                      | In Central Electric Stations. <sup>1</sup> | In Pulp and Paper Mills. <sup>2</sup> | In Other Industries. <sup>3</sup> | Total.           |                                        |                                          |
| Prince Edward Island.....            | 376                                        | —                                     | 2,063                             | 2,439            | 89,000                                 | 27                                       |
| Nova Scotia.....                     | 84,202                                     | 16,578                                | 15,587                            | 116,367          | 526,000                                | 221                                      |
| New Brunswick.....                   | 104,960                                    | 19,778                                | 8,943                             | 133,681          | 426,000                                | 314                                      |
| Quebec.....                          | 3,344,875                                  | 222,160                               | 136,285                           | 3,703,320        | 3,022,000                              | 1,225                                    |
| Ontario.....                         | 2,005,473                                  | 240,880                               | 109,402                           | 2,355,755        | 3,566,000                              | 661                                      |
| Manitoba.....                        | 390,925                                    | —                                     | —                                 | 390,925          | 731,000                                | 535                                      |
| Saskatchewan.....                    | 42,000                                     | —                                     | 35                                | 42,035           | 966,000                                | 44                                       |
| Alberta.....                         | 70,320                                     | —                                     | 1,277                             | 71,597           | 770,000                                | 93                                       |
| British Columbia.....                | 546,810                                    | 105,950                               | 64,957                            | 717,717          | 725,000                                | 990                                      |
| Yukon and Northwest Territories..... | —                                          | —                                     | 13,199                            | 13,199           | 14,000                                 | 943                                      |
| <b>Canada.....</b>                   | <b>6,589,941</b>                           | <b>605,346</b>                        | <b>351,748</b>                    | <b>7,547,035</b> | <b>10,835,000</b>                      | <b>697</b>                               |

<sup>1</sup> Includes only hydro-electric stations which develop power for sale. <sup>2</sup> Includes only water power actually developed by pulp and paper companies. In addition to this turbine installation, pulp and paper companies have motor equipment for operation by hydro-electricity purchased from the central electric stations aggregating more than 1,031,000 h.p., making a total of more than 1,636,000 h.p. actually developed for the manufacture of pulp and paper. Large amounts of electricity are also purchased for use in electric boilers. <sup>3</sup> Includes only water power actually developed in connection with industries other than the central electric station and pulp and paper industries. These industries also purchase power from the central electric stations. <sup>4</sup> Estimated by the Dominion Bureau of Statistics.

## Section 2.—Central Electric Stations.\*

The rapid growth of the central electric station industry has been stimulated by the large demand for power from the manufacturing industries, particularly pulp and paper plants, and from the domestic and commercial light customers, and also by the many improvements in generating and transmitting equipment and in electric appliances and motors. In Table 4 will be found statistics of the number of central electric stations, capital invested, revenue from sale of power, total horsepower, kilowatt hours generated and number of customers for the 17 years ended 1933, together with the number of persons employed and the amount expended for salaries and wages. The total output for 1933 amounted to 17,338,990,000 kilowatt hours and, based on preliminary figures from the large stations, the total production in 1934 is estimated at 21,167,682,000 kilowatt hours. This is a new high record for the industry, exceeding the previous peak of 18,093,802,000 kilowatt hours made in 1930 by over 16 p.c.

Exports to the United States, which reached a low point in 1932, began to pick up in June, 1933, and continued well above 1931 and 1932 exports throughout 1934, amounting to 1,138,297,000 kilowatt hours for the first eleven months, as against 626,278,000 kilowatt hours for the corresponding period in 1932.

Pulp and paper mills, textile mills and other industries have been using increasing quantities of electricity in electric boilers and for the first eleven months of 1934 purchased 4,560,000,000 kilowatt hours for this purpose. This was an increase of 79 p.c. over the 1932 deliveries and 42 p.c. over the 1933 deliveries. The improved conditions in the pulp and paper industry, together with increases in power consumption in electro-chemical and electro-metallurgical industries and a more or less

\* Revised by G. S. Wrong, B.Sc., Chief, Transportation and Public Utilities Branch, Dominion Bureau of Statistics. For a list of publications of this Branch see Chapter XXIX.



steady increase in the domestic load, or consumption for residence lighting, and other uses, even during the worst years of the depression, have all combined to raise the central electric station output to this record figure.

There are some interesting factors affecting the relative per capita consumptions of electricity from central electric stations in Canada and the United States. An abundant supply of low-priced coal in the industrial area of the United States, and no coal but an excellent supply of water power in the central provinces of Canada, tend to favour the generation of power in central stations in Canada more than in the United States. Again, the pulp and paper industry is proportionately a smaller industry in the United States than in Canada; on a power basis, the proportions are approximately 7 p.c. and 40 p.c. respectively. While the average consumption for domestic use is more than twice as high in Canada as in the United States, the total consumption for domestic or residential use is about 9.5 p.c. of the total output of central electric stations for Canada and 14 p.c. for the United States.

#### 4.—Summary Statistics of Central Electric Stations, calendar years 1917-33.

| Year.     | Number of Stations. <sup>1</sup> | Capital Invested. | Revenue from Sale of Power. <sup>2</sup> | Total Horse Power. <sup>3</sup> | Kilowatt Hours Generated. | Cus-tomers. | Persons Em-ployed. | Salaries and Wages. |
|-----------|----------------------------------|-------------------|------------------------------------------|---------------------------------|---------------------------|-------------|--------------------|---------------------|
|           |                                  | \$                | \$                                       | h.p.                            | (000).                    | No.         | No.                | \$                  |
| 1917..... | 666                              | 356,004,168       | -                                        | 1,844,571                       | -                         | -           | 8,847              | 7,777,715           |
| 1918..... | 795                              | 401,942,402       | 43,908,085                               | 1,841,114                       | -                         | -           | 9,696              | 10,354,242          |
| 1919..... | 805                              | 416,512,010       | 47,933,490                               | 1,907,135                       | 5,497,204                 | -           | 9,656              | 11,487,132          |
| 1920..... | 506                              | 448,273,642       | 53,436,082                               | 1,897,024                       | 5,894,867                 | 894,158     | 10,693             | 14,626,709          |
| 1921..... | 510                              | 484,669,451       | 58,271,622                               | 1,977,857                       | 5,614,132                 | 973,212     | 10,714             | 15,234,678          |
| 1922..... | 522                              | 568,068,752       | 62,173,179                               | 2,258,398                       | 6,740,750                 | 1,053,545   | 10,684             | 14,495,250          |
| 1923..... | 532                              | 581,780,611       | 67,496,893                               | 2,423,845                       | 8,099,192                 | 1,112,547   | 11,094             | 14,784,038          |
| 1924..... | 532                              | 628,565,093       | 74,616,863                               | 2,849,450                       | 9,315,277                 | 1,200,950   | 12,956             | 17,946,584          |
| 1925..... | 563                              | 726,721,087       | 79,341,584                               | 3,569,527                       | 10,110,459                | 1,279,731   | 13,263             | 18,755,907          |
| 1926..... | 595                              | 756,220,066       | 88,933,733                               | 3,769,323                       | 12,093,445                | 1,337,562   | 13,406             | 19,943,000          |
| 1927..... | 629                              | 866,825,285       | 104,033,297                              | 4,173,349                       | 14,549,099                | 1,381,966   | 14,708             | 22,946,315          |
| 1928..... | 601                              | 956,919,603       | 112,326,819                              | 4,627,667                       | 16,336,518                | 1,464,005   | 15,855             | 24,253,820          |
| 1929..... | 587                              | 1,055,731,532     | 122,883,446                              | 4,925,555                       | 17,961,840                | 1,555,883   | 16,164             | 24,831,821          |
| 1930..... | 587                              | 1,138,200,016     | 126,038,145                              | 5,401,108                       | 18,093,802                | 1,607,766   | 17,857             | 27,287,443          |
| 1931..... | 559                              | 1,229,988,951     | 122,310,730                              | 5,706,757                       | 16,330,867                | 1,632,792   | 17,014             | 26,306,956          |
| 1932..... | 572                              | 1,335,886,987     | 121,212,679                              | 6,343,654                       | 16,052,057                | 1,657,454   | 15,395             | 23,261,166          |
| 1933..... | 575                              | 1,386,532,055     | 117,532,081                              | 6,616,006                       | 17,338,990                | 1,666,882   | 14,717             | 21,431,877          |

<sup>1</sup> Excluding non-generating stations in 1920 and subsequent years. <sup>2</sup> Revised to exclude duplications.

<sup>3</sup> Not including auxiliary plant equipment which is included in installation shown in central electric stations in Table 7 of the manufactures chapter, pp. 466 and 467.

**Equipment of Central Electric Stations.**—The main-plant primary power equipment of all central electric stations aggregated 6,616,006 h.p. in 1933. This included water wheels and turbines, steam reciprocating engines and turbines, and internal combustion engines. The hydraulic power machines greatly predominated over the other prime movers, providing 95 p.c. of the total capacity, with steam turbines, steam reciprocating engines and internal combustion engines making up the remaining 5 p.c. Not included in the above were steam engines and internal combustion engines with a capacity of 193,569 h.p., or 2.8 p.c. of the total power capacity, installed as auxiliary or standby equipment.



Central electric stations that have no water power, but are operated by steam and internal combustion engines, are on the whole small stations. Of the 57 main-plant steam reciprocating engines in central electric stations in 1933, only 8 in number, or about 14 p.c., were over 500 h.p. The steam turbines averaged approximately 4,100 h.p. with 15 units averaging 9,600 h.p., but there were only 66 steam turbines in the industry and these were confined to 25 stations, whereas the 814 water wheels and turbines averaged 7,747 h.p., including 3 at 65,000 h.p. and 2 at 66,000 h.p. each.

The majority of the fuel-using stations are primarily for lighting purposes, using the cheapest fuel procurable, generally local coal. In the Prairie Provinces bituminous and lignite coals are used for the steam engines, and gasolene, oil distillates and producer gas for the internal combustion engines.

Of the 334 main-plant internal combustion engines in central electric stations in 1933, 186, or 56 p.c., were in Saskatchewan, 66, or 20 p.c., in Alberta and 30, or 9 p.c., in Manitoba.

During 1933, the fuel stations produced 330,933,000 kilowatt hours at a cost for fuel of \$1,783,301, an average of 0.54 cts. per kilowatt hour. This production was, however, only 1.8 p.c. of the total output. The auxiliary equipment in central stations consumed fuel valued at \$88,127 and produced 1,677,000 k.w. hours of energy.

#### 5.—Main Plant Equipment of Central Electric Stations, by Provinces and Total Auxiliary Equipment, 1933.

NOTE.—K.V.A. means Kilo-volt-amperes.

| Type of Equipment and Province.   | Number of Power Plants. | Water Wheels and Turbines. |                  |                   | Steam Engines, Steam Turbines and Internal Combustion Engines. |                |                   | Dynamios.    |                  |                   |
|-----------------------------------|-------------------------|----------------------------|------------------|-------------------|----------------------------------------------------------------|----------------|-------------------|--------------|------------------|-------------------|
|                                   |                         | No.                        | Capacity.        | Average Capacity. | No.                                                            | Capacity.      | Average Capacity. | No.          | Capacity.        | Average Capacity. |
|                                   |                         |                            | h.p.             | h.p.              |                                                                | h.p.           | h.p.              |              | K.V.A.           | K.V.A.            |
| <b>MAIN PLANT EQUIPMENT.</b>      |                         |                            |                  |                   |                                                                |                |                   |              |                  |                   |
| P.E. Island.....                  | 11                      | 9                          | 464              | 52                | 8                                                              | 5,063          | 633               | 16           | 4,929            | 308               |
| Nova Scotia.....                  | 47                      | 55                         | 81,616           | 1,484             | 28                                                             | 62,342         | 2,227             | 83           | 119,787          | 1,443             |
| New Brunswick...                  | 15                      | 16                         | 105,485          | 6,593             | 16                                                             | 25,360         | 1,585             | 32           | 110,776          | 3,561             |
| Quebec.....                       | 96                      | 264                        | 3,048,405        | 11,547            | 7                                                              | 15,030         | 2,147             | 275          | 2,628,966        | 9,560             |
| Ontario.....                      | 131                     | 337                        | 2,003,426        | 5,945             | 13                                                             | 1,098          | 84                | 343          | 1,616,378        | 4,713             |
| Manitoba.....                     | 27                      | 40                         | 436,925          | 10,923            | 39                                                             | 3,370          | 86                | 77           | 354,746          | 4,608             |
| Saskatchewan.....                 | 120                     | —                          | —                | —                 | 214                                                            | 135,398        | 633               | 210          | 114,947          | 547               |
| Alberta.....                      | 64                      | 18                         | 69,520           | 3,862             | 98                                                             | 59,549         | 608               | 109          | 104,942          | 963               |
| British Columbia }<br>Yukon.....  | 64                      | 75                         | 560,156          | 7,469             | 34                                                             | 2,799          | 82                | 111          | 436,214          | 3,930             |
| <b>Totals.....</b>                | <b>575</b>              | <b>814</b>                 | <b>6,305,997</b> | <b>7,747</b>      | <b>457</b>                                                     | <b>310,009</b> | <b>678</b>        | <b>1,256</b> | <b>5,491,685</b> | <b>4,372</b>      |
| <b>AUXILIARY PLANT EQUIPMENT.</b> |                         |                            |                  |                   |                                                                |                |                   |              |                  |                   |
| —                                 | —                       | —                          | —                | —                 | 141                                                            | 193,569        | 1,373             | 132          | 164,732          | 1,248             |
| <b>Totals.....</b>                | <b>575</b>              | <b>814</b>                 | <b>6,305,997</b> | <b>7,747</b>      | <b>598</b>                                                     | <b>503,578</b> | <b>842</b>        | <b>1,388</b> | <b>5,656,417</b> | <b>4,075</b>      |

**Provincial Distribution of Electrical Energy.**—The distribution by provinces of the electrical energy generated in central electric stations throughout Canada is shown in Table 6 for the calendar years 1928-1933. In the latter year about 80 p.c. of the total generated electrical energy was produced in the leading industrial provinces of Ontario and Quebec. From Table 7 it is seen that the total electric energy generated for export in the fiscal year ended Mar. 31, 1934, was 1,199,027,447 kilowatt hours; in the calendar year 1933 it had amounted to 1,010,420,181 kilowatt hours, or 5.8 p.c. of the total amount generated in central electric stations.

**6.—Electrical Energy Generated in Central Electric Stations, by Provinces, calendar years 1928-33.**

| Province or Territory.    | Kilowatt hours ("000" omitted). |                   |                   |                   |                   |                   |
|---------------------------|---------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                           | 1928.                           | 1929.             | 1930.             | 1931.             | 1932.             | 1933.             |
| Prince Edward Island..... | 2,289                           | 2,726             | 3,591             | 4,413             | 4,662             | 4,765             |
| Nova Scotia.....          | 97,448                          | 107,467           | 223,421           | 257,573           | 279,854           | 330,436           |
| New Brunswick.....        | 73,846                          | 125,267           | 332,598           | 404,350           | 427,604           | 378,687           |
| Quebec.....               | 7,682,425                       | 8,664,334         | 8,822,901         | 8,066,026         | 8,491,128         | 9,611,084         |
| Ontario.....              | 6,084,031                       | 6,453,510         | 6,160,987         | 4,948,819         | 4,258,042         | 4,381,094         |
| Manitoba.....             | 1,050,898                       | 1,108,192         | 991,237           | 1,084,763         | 1,087,010         | 1,077,210         |
| Saskatchewan.....         | 98,971                          | 119,455           | 137,217           | 134,014           | 135,898           | 131,164           |
| Alberta.....              | 181,272                         | 205,351           | 204,076           | 205,082           | 195,467           | 182,963           |
| British Columbia.....     | 1,074,818                       | 1,176,213         | 1,217,774         | 1,225,827         | 1,172,392         | 1,241,587         |
| Yukon.....                | 11,806                          |                   |                   |                   |                   |                   |
| <b>Canada.....</b>        | <b>16,337,804</b>               | <b>17,962,515</b> | <b>18,093,802</b> | <b>16,330,867</b> | <b>16,052,057</b> | <b>17,338,990</b> |

**Electric Light and Power.**—Electric light and power companies are subject to registration and inspection under the Electricity Inspection Act, 1907 (6-7 Edw. VII, c. 14), and the production of electrical energy for export is regulated by the Electricity and Fluid Exportation Act, 1907 (6-7 Edw. VII, c. 16). Both Acts were administered by the Department of Inland Revenue until Sept. 1, 1918, when, by Order in Council of June 3, 1918, their administration was transferred to the Department of Trade and Commerce. (See cc. 54 and 55, R.S.C., 1927.)

Electrical energy produced for export increased from 538,331,425 kilowatt hours in the fiscal year ended Mar. 31, 1911, to 1,749,539,778 kilowatt hours in 1931 but fell to 652,152,826 kilowatt hours in 1933. Such power produced in 1934 showed an increase of nearly 84 p.c. compared with 1933 and was only 31.5 p.c. below the 1931 figure. Figures by companies for the last four fiscal years are given in Table 7.

**7.—Electrical Energy Generated or Produced for Export under Authority of the Electricity and Fluid Exportation Act, fiscal years ended Mar. 31, 1931-34.**

| Company.                                                                    | 1931.                | 1932.                | 1933.              | 1934.                |
|-----------------------------------------------------------------------------|----------------------|----------------------|--------------------|----------------------|
|                                                                             | k.w. hours           | k.w. hours.          | k.w. hours.        | k.w. hours.          |
| Hydro-Electric Power Commission of Ontario.....                             | 857,358,400          | 395,413,700          | 350,001,000        | 507,601,200          |
| Canadian Niagara Power Co., Niagara Falls, Ont.....                         | 338,183,620          | 253,816,000          | 79,166,700         | 265,715,600          |
| Ontario and Minnesota Power Co., Fort Frances, Ont.                         | 9,883,600            | 10,014,700           | 14,692,650         | 15,243,950           |
| Maine and New Brunswick Electric Power Co., Ltd., Aroostook Falls, N.B..... | 12,922,510           | 12,552,505           | 11,823,907         | 12,073,106           |
| British Columbia Electric Ry. Co., Vancouver, B.C.....                      | 16,840 <sup>1</sup>  | 146,606              | 165,355            | 172,123              |
| Western Power Co. of Canada, Vancouver, B.C.....                            | 2,506                | 5,951                | —                  | 2,800                |
| Southern Canada Power Co., Sherbrooke, Que.....                             | 463,870              | 436,180              | 420,643            | 377,769              |
| Cedars Rapids Mfg. and Power Co., Cedars Rapids, Que.....                   | 521,117,775          | 326,106,398          | 187,339,002        | 390,421,891          |
| Maritime Electric Co., Ltd., St. Stephen, N.B.....                          | 561,000              | 318,850              | 263,640            | 678,420              |
| Fraser Companies, Ltd.....                                                  | 7,905,570            | 8,218,900            | 7,527,400          | 6,238,500            |
| Northport Power and Light Co., Northport, Wash., U.S.A. <sup>1</sup>        | 268,587              | 271,490              | 253,008            | 234,618              |
| Northern British Columbia Power Co., Prince Rupert, B.C.....                | 52,630               | 59,760               | 46,600             | 42,370               |
| International Railway Co., Niagara Falls, Ont.....                          | 718,470              | 553,418              | 98,121             | —                    |
| Detroit and Windsor Subway Co.....                                          | 84,400               | 484,500              | 354,800            | 225,100              |
| <b>Totals.....</b>                                                          | <b>1,749,539,778</b> | <b>1,008,398,958</b> | <b>652,152,826</b> | <b>1,199,027,447</b> |

<sup>1</sup> Purchases from West Kootenay Power and Light Co., Ltd., Rossland, B.C..

<sup>2</sup> No exports March, 1930, to January, 1931, inclusive.

### Section 3.—Public Ownership of Hydro-Electric Power.

When, in the early years of the twentieth century, it became evident that the development of hydro-electric power would become a 'key industry' in Canada, more especially in its coal-less central provinces of Ontario and Quebec, a strong movement arose in favour of conserving the water powers of the country for the public benefit instead of allowing them to pass into the hands of private corporations. This 'public ownership' movement developed especial strength in Ontario and finally led to the establishment of the Hydro-Electric Power Commission, the operating statistics of which are given in Subsection 1. More recently, Manitoba, Nova Scotia, New Brunswick and Saskatchewan have established Hydro-Electric Commissions on the model of the Ontario system. In Quebec and British Columbia, on the other hand, the development of hydro-electric power has been left in the hands of private corporations.

#### Subsection 1.—The Hydro-Electric Power Commission of Ontario.\*

The publicly-owned hydro-electrical undertaking of Ontario—known in the province as the "Hydro"—is an organization of a large number of partner municipalities, co-ordinated into groups or systems for securing common action with respect to power supplies. It had its beginning in 1903, when, as a result of public agitation to ensure the provision of adequate supplies of electrical power for distribution throughout the province at low cost, seven municipalities united under statutory authority in appointing an investigating commission to deal with power problems. This commission, known as the Ontario Power Commission, completed its work in 1906, and in the same year the Ontario Government, by special Act, created the present Hydro-Electric Power Commission of Ontario. The operations of the undertaking have grown rapidly and in 1933 electrical service was supplied by the Commission to about 757 municipalities, comprising nearly all of the cities and towns of the province, as well as many small communities and rural areas.

The providing of the power, either by generation or purchase, its transformation, transmission and delivery to the individual municipalities and to large industrial consumers, and the operation of rural power districts are carried on by the municipalities acting *collectively* through their agent and trustee, the Hydro-Electric Power Commission of Ontario. The local operations involved in the retail distribution of the electrical energy to the consumers within the limits of the various urban municipalities are performed by the municipalities *individually* through municipal utility commissions acting under the general supervision of the Hydro-Electric Power Commission.

Capital required for plant to generate and transmit power is lent by the province, and the municipalities are under contract to repay, over a period of 40 years, the moneys thus lent, with interest in full. The local distribution systems are financed individually by the issue of municipal debentures. Provision is made, in the rates charged to the ultimate consumers, for revenue with which to retire these bonds in from 20 to 30 years. The rates at which power is supplied by the Commission to the various municipalities vary with the amounts of power used, the distances from the sources of supply, and other factors. The basic principle underlying the operations of the undertaking is the provision of service 'at cost'. The rates charged by the municipal utilities for retail service are under the control of the Commission and are designed to ensure that each class of consumer bears its appropriate share

\* Revised by R. T. Jeffery, Chief Municipal Engineer, Hydro-Electric Power Commission of Ontario, Toronto, Ontario.

of the expenses of the undertaking. Each type of consumer is charged with the cost of the service received as far as is practicable.

**Power Supplies.**—To meet the constantly expanding power demands of the undertaking, the Commission has constructed its own generating plants, and has acquired several privately-owned generating plants. Of the 39 hydro-electric power plants operated by the Commission in 1932, the largest is the Queenston-Chippawa development on the Niagara river which was constructed by the Commission and has a normal operating capacity of 500,000 h.p. Provision for the needs of the near future had been made at the end of 1932—including existing plants, plants under construction and power under contract for present and future delivery—up to an aggregate of about 2,000,000 h.p.

**Hydro-Electric Power Commission Statistics.**—The Canada Year Book of 1910 (p. xliii) described the turning on, Oct. 11, 1910, at Berlin (now Kitchener), Ontario, of electrical energy generated by Niagara falls. The small initial load of less than 1,000 h.p. increased rapidly and by 1915 had reached 100,000 h.p. In 1920 the total power distributed exceeded 350,000 h.p. and in 1930 it was over 1,260,000 h.p. Table 8 shows the growth of the co-operative municipal electrical undertaking of Ontario. It will be noted that the total capital of the undertaking, which includes investments of the Hydro-Electric Power Commission in power-producing and transmitting equipment, etc., and investments of the municipalities in distributing systems and other assets, aggregated nearly \$395,000,000 in 1933.

**8.—Summary Statistics Representative of the Growth of the Ontario Hydro-Electric Power Commission's Undertaking, 1910-33.**

| Year.     | Municipalities Served. | Customers Served. | Total Power Distributed by Commission. | Capital of Commission and Assets of Municipal Utilities. |
|-----------|------------------------|-------------------|----------------------------------------|----------------------------------------------------------|
|           | No.                    | No.               | h.p.                                   | \$                                                       |
| 1910..... | 10                     | —                 | 2,500                                  | 2,521,000                                                |
| 1911..... | 26                     | —                 | 15,200                                 | 4,020,000                                                |
| 1912..... | 36                     | —                 | 31,000                                 | 4,576,000                                                |
| 1913..... | 58                     | 58,961            | 45,000                                 | 17,698,000                                               |
| 1914..... | 95                     | 96,744            | 77,000                                 | 25,023,000                                               |
| 1915..... | 131                    | 116,892           | 104,000                                | 29,791,000                                               |
| 1916..... | 191                    | 155,052           | 167,000                                | 34,917,000                                               |
| 1917..... | 215                    | 181,711           | 333,000                                | 74,701,000                                               |
| 1918..... | 236                    | 194,382           | 316,000                                | 87,812,000                                               |
| 1919..... | 252                    | 230,472           | 328,000                                | 103,591,000                                              |
| 1920..... | 266                    | 261,582           | 355,000                                | 128,334,000                                              |
| 1921..... | 301                    | 285,923           | 529,000                                | 193,918,000                                              |
| 1922..... | 348                    | 364,988           | 605,000                                | 220,594,000                                              |
| 1923..... | 393                    | 387,983           | 685,486                                | 236,023,000                                              |
| 1924..... | 418                    | 415,922           | 691,198                                | 254,189,000                                              |
| 1925..... | 444                    | 439,702           | 816,295                                | 265,998,000                                              |
| 1926..... | 501                    | 448,241           | 928,032                                | 274,972,000                                              |
| 1927..... | 530                    | 469,572           | 949,700                                | 286,165,000                                              |
| 1928..... | 560                    | 522,770           | 1,032,500                              | 297,204,000                                              |
| 1929..... | 607                    | 552,321           | 1,136,689                              | 314,237,000                                              |
| 1930..... | 668                    | 586,267           | 1,263,512                              | 359,648,000                                              |
| 1931..... | 721                    | 600,297           | 1,050,903                              | 373,010,000                                              |
| 1932..... | 747                    | 611,955           | 1,106,884                              | 382,558,000                                              |
| 1933..... | 757                    | 621,418           | 1,366,735                              | 394,661,000                                              |

Table 9 shows the growth in load in the various systems during the past five years.



# 9.—Distribution of Power to Systems of the Ontario Hydro-Electric Power Commission, 1929-33.

(20-minute peak horse-power—System, coincident peaks.)

| System and District.                 | October,<br>1929. | October,<br>1930. | October,<br>1931. | October,<br>1932. | October,<br>1933. |
|--------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                      | h.p.              | h.p.              | h.p.              | h.p.              | h.p.              |
| Niagara system.....                  | 949,732           | 1,000,670         | 805,630           | 867,446           | 1,055,697         |
| Dominion Power and Transmission..... | —                 | 58,579            | 48,659            | 43,068            | 45,710            |
| Georgian Bay system.....             | 22,118            | 23,355            | 26,356            | 25,666            | 23,887            |
| Eastern Ontario system.....          | 62,035            | 88,678            | 85,857            | 80,544            | 86,890            |
| Thunder Bay system.....              | 77,117            | 73,968            | 51,600            | 65,700            | 90,450            |
| Manitoulin district.....             | —                 | —                 | —                 | —                 | 80                |
| Northern Ontario System—             |                   |                   |                   |                   |                   |
| Nipissing district.....              | 3,599             | 3,745             | 3,689             | 3,751             | 3,539             |
| Sudbury district.....                | —                 | 12,935            | 27,200            | 17,761            | 12,466            |
| Abitibi district.....                | —                 | —                 | —                 | —                 | 45,389            |
| Patricia district.....               | —                 | 1,582             | 1,912             | 2,048             | 2,627             |
| <b>Totals.....</b>                   | <b>1,136,689</b>  | <b>1,263,512</b>  | <b>1,050,903</b>  | <b>1,106,884</b>  | <b>1,366,735</b>  |

The initial capital expenditure to serve some twelve municipalities amounted to about \$3,600,000. Table 10 shows for the past five years the capital investment in the respective systems of the undertaking and in the associated municipal undertakings.

# 10.—Capital Investments in Ontario's Hydro Undertakings, 1929-33.

| Item.                                                                                                                                                       | 1929.              | 1930.              | 1931.              | 1932.              | 1933.              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                                                                                                                                             | \$                 | \$                 | \$                 | \$                 | \$                 |
| Investments by Commission on behalf of co-operating Municipalities, in Generating Plants and Transmission Systems, etc.—                                    |                    |                    |                    |                    |                    |
| Niagara system.....                                                                                                                                         | 168,004,159        | 176,172,588        | 182,176,762        | 202,098,895        | 201,975,671        |
| Dominion Power and Transmission.....                                                                                                                        | —                  | 21,489,435         | 21,489,435         | 1                  | 1                  |
| Chats Falls development.....                                                                                                                                | —                  | 2,137,230          | 4,835,703          | 5,878,494          | 6,167,756          |
| Georgian Bay system.....                                                                                                                                    | 6,310,035          | 7,940,667          | 8,208,446          | 8,329,026          | 8,394,645          |
| Eastern Ontario system.....                                                                                                                                 | 18,045,388         | 20,917,183         | 21,570,767         | 21,060,824         | 19,372,834         |
| Ottawa district.....                                                                                                                                        | 537,194            | 2                  | 2                  | 2                  | 2                  |
| Madawaska district.....                                                                                                                                     | 1,864,647          | 2                  | 2                  | 2                  | 2                  |
| Thunder Bay system.....                                                                                                                                     | 15,325,411         | 17,645,796         | 18,406,363         | 18,480,739         | 18,630,772         |
| Manitoulin district.....                                                                                                                                    | —                  | —                  | —                  | —                  | 32,626             |
| Northern Ontario system <sup>2</sup> .....                                                                                                                  | 1,565,754          | 3,297,543          | 5,259,256          | 10,786,686         | 23,790,137         |
| Hydro-electric railways.....                                                                                                                                | 7,259,997          | 7,340,565          | 1,897,838          | 1,985,113          | 2,076,925          |
| Office and service buildings, construction plant, inventories, etc.....                                                                                     | 3,170,051          | 3,652,772          | 3,735,970          | 4,629,053          | 4,562,603          |
| Miscellaneous, engineering, storage, etc.....                                                                                                               | —                  | —                  | —                  | —                  | —                  |
| <b>Totals Investments by Commission</b>                                                                                                                     | <b>222,082,637</b> | <b>260,593,779</b> | <b>267,575,540</b> | <b>273,248,830</b> | <b>285,003,969</b> |
| Investments by municipalities in distributing systems and other assets (exclusive of sinking fund equity in H.E.P.C. systems, included above), all systems: |                    |                    |                    |                    |                    |
| .....                                                                                                                                                       | 92,154,281         | 99,054,262         | 105,434,582        | 109,309,934        | 109,657,574        |
| <b>Grand Totals.....</b>                                                                                                                                    | <b>314,236,918</b> | <b>359,648,041</b> | <b>373,010,122</b> | <b>382,558,764</b> | <b>394,661,543</b> |

<sup>1</sup> Included in the Niagara system.   <sup>2</sup> Included in Eastern Ontario system.   <sup>3</sup> The Northern Ontario system includes the Nipissing district, the Sudbury district, the Patricia district and the Abitibi district.

The total reserves of the Commission and of the municipal electric utilities for sinking fund, renewals, contingencies and insurance purposes are shown in Table 11.

**11.—Accumulated Reserves of the Ontario Hydro-Electric Power Commission and of the Local Electric Utilities of the Co-operating Municipalities, 1929-33.**

| Item.                                                                   | 1929.             | 1930.              | 1931.              | 1932.              | 1933.              |
|-------------------------------------------------------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
|                                                                         | \$                | \$                 | \$                 | \$                 | \$                 |
| Niagara system.....                                                     | 35,940,823        | 43,069,032         | 48,503,212         | 50,900,344         | 52,380,601         |
| Georgian Bay system.....                                                | 1,655,366         | 1,889,782          | 2,197,526          | 2,482,837          | 2,822,302          |
| Eastern Ontario system.....                                             | 3,447,044         | 4,123,718          | 4,865,154          | 5,228,591          | 5,338,116          |
| Thunder Bay system.....                                                 | 1,566,521         | 2,165,992          | 2,597,317          | 2,739,224          | 3,104,669          |
| Northern Ontario system <sup>2</sup> .....                              | —                 | 10,583             | 86,942             | 164,784            | 625,282            |
| Nipissing district <sup>1</sup> .....                                   | 1                 | 1                  | 1                  | 2                  | 7,560 <sup>3</sup> |
| Bonnechère storage.....                                                 | 16,451            | 19,234             | —                  | 1,734              | 3,537              |
| Service buildings and equipment.....                                    | 542,755           | 570,210            | 616,737            | 664,714            | 706,849            |
| Hydro-electric railways.....                                            | 133,298           | 102,952            | 98,729             | 109,240            | 121,482            |
| Insurance—Workmen's Compensation and staff pension insurance.....       | 2,554,759         | 2,993,347          | 3,438,795          | 3,854,019          | 4,322,862          |
| Totals, reserves of the Commission.....                                 | 45,881,750        | 54,944,850         | 62,404,412         | 66,145,487         | 69,433,280         |
| Totals, reserves—including surplus—of municipal electric utilities..... | 44,058,573        | 48,912,833         | 53,235,314         | 56,624,617         | 59,736,820         |
| <b>Totals, Commission and Municipal Reserves.....</b>                   | <b>89,940,324</b> | <b>103,857,683</b> | <b>115,639,726</b> | <b>122,770,104</b> | <b>129,170,080</b> |

<sup>1</sup> Included in Eastern Ontario system.

<sup>2</sup> Included in Northern Ontario system.

<sup>3</sup> Includes Manitoulin rural power district.

**Statistics of Urban Municipal Electric Utilities of Ontario Supplied by the Commission.**—The Commission exercises supervisory functions over the electrical utilities owned and operated by the partner municipalities, and has introduced a uniform accounting system which enables the Commission to present in its Annual Reports consolidated balance sheets and operating reports regarding these utilities. These statistics relate to about 90 p.c. of the retail customers supplied by the undertaking. Summary statistics regarding service to rural consumers are given in Table 14.

Statistics of the assets and liabilities of the electric departments of urban municipalities served by the Hydro-Electric Power Commission are given in Table 12. These show, for 1933, total assets of \$135,703,253, as compared with liabilities of \$49,920,754. Of the difference, \$44,169,720 is allotted as reserves, leaving a surplus of \$41,612,779. The item "equities in hydro systems", listed under both assets and reserves, relates to the sinking fund equities acquired by the individual municipalities in their collective generation and transmission undertaking administered by the Hydro-Electric Power Commission. All other items relate to the local distributing systems operated individually by the urban municipalities which are partners in the Hydro undertaking. In computing the percentage of net debt to total assets the equity in Hydro systems is not taken into account. It will be noted that whereas between 1929 and 1933 total assets have increased by \$28,794,107, total liabilities have increased by only \$1,825,046.

**12.—Consolidated Statement of Assets, Liabilities, Reserves and Surpluses of Electric Departments of Urban Municipalities Served by the Ontario Hydro-Electric Power Commission, calendar years 1929-33.**

| Item.                                                   | 1929.              | 1930.              | 1931.              | 1932.              | 1933.              |
|---------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Numbers of municipalities included. ....                | 260                | 267                | 275                | 280                | 282                |
|                                                         | \$                 | \$                 | \$                 | \$                 | \$                 |
| <b>Assets—Plant—</b>                                    |                    |                    |                    |                    |                    |
| Lands and buildings.....                                | 7,469,451          | 7,936,974          | 8,407,664          | 9,503,744          | 10,186,471         |
| Substation equipment.....                               | 18,102,792         | 19,485,056         | 21,013,957         | 22,288,782         | 22,306,801         |
| Distribution systems—overhead.....                      | 18,108,017         | 19,220,327         | 19,918,356         | 20,866,767         | 21,152,681         |
| Distribution systems—underground.....                   | 4,823,370          | 4,932,189          | 5,361,627          | 5,820,057          | 5,945,226          |
| Line transformers.....                                  | 7,312,742          | 7,953,090          | 8,649,875          | 9,392,662          | 9,478,605          |
| Meters.....                                             | 7,405,479          | 7,840,948          | 8,106,203          | 8,403,252          | 8,514,165          |
| Street lighting equipment—regular.....                  | 1,594,183          | 1,780,786          | 2,205,613          | 2,257,618          | 2,381,599          |
| Street lighting equipment—ornamental.....               | 1,458,350          | 1,520,891          | 1,456,743          | 1,545,355          | 1,468,444          |
| Miscellaneous construction expenses.....                | 3,483,488          | 3,996,748          | 3,827,132          | 4,120,926          | 4,040,860          |
| Steam and hydraulic plants.....                         | 489,097            | 139,587            | 458,374            | 498,232            | 502,979            |
| Old plants.....                                         | 5,093,379          | 5,322,690          | 7,146,438          | 4,989,655          | 5,016,756          |
| Other plants.....                                       | —                  | —                  | —                  | 200,000            | 200,000            |
| <b>Totals, Plant.....</b>                               | <b>75,340,348</b>  | <b>80,129,286</b>  | <b>86,551,982</b>  | <b>89,887,050</b>  | <b>91,184,587</b>  |
| <b>Other Assets—</b>                                    |                    |                    |                    |                    |                    |
| Bank and cash balances.....                             | 858,734            | 2,722,250          | 2,738,320          | 3,185,442          | 1,696,489          |
| Securities and investments.....                         | 2,001,089          | 1,909,439          | 1,999,846          | 2,059,325          | 2,163,785          |
| Accounts receivable.....                                | 4,683,202          | 4,481,007          | 3,957,973          | 3,683,059          | 3,746,911          |
| Inventories.....                                        | 1,365,033          | 1,242,995          | 1,276,531          | 1,232,209          | 1,226,043          |
| Sinking funds on local debentures.....                  | 7,753,614          | 8,396,256          | 8,735,056          | 9,099,211          | 9,386,177          |
| Equities in Hydro systems.....                          | 14,754,865         | 17,346,372         | 20,103,276         | 23,066,130         | 26,045,679         |
| Other assets.....                                       | 152,261            | 173,030            | 174,879            | 163,638            | 253,582            |
| <b>Totals, Assets.....</b>                              | <b>106,909,146</b> | <b>116,400,635</b> | <b>125,537,858</b> | <b>132,376,064</b> | <b>135,703,253</b> |
| <b>Liabilities—</b>                                     |                    |                    |                    |                    |                    |
| Debenture balances.....                                 | 42,930,128         | 45,091,808         | 44,594,400         | 45,133,306         | 42,606,145         |
| Accounts payable.....                                   | 3,132,145          | 3,001,186          | 5,382,306          | 3,512,725          | 3,320,486          |
| Bank overdrafts.....                                    | 412,057            | 405,663            | 812,576            | 298,910            | 206,398            |
| Other liabilities.....                                  | 1,621,378          | 1,642,772          | 1,909,986          | 3,740,376          | 3,787,725          |
| <b>Totals, Liabilities.....</b>                         | <b>48,095,708</b>  | <b>50,141,429</b>  | <b>52,199,268</b>  | <b>52,685,317</b>  | <b>49,920,754</b>  |
| <b>Reserves—</b>                                        |                    |                    |                    |                    |                    |
| For equities in H.E.P.C. system.....                    | 14,754,865         | 17,346,372         | 20,103,276         | 23,066,130         | 26,045,679         |
| For depreciation.....                                   | 11,911,155         | 12,885,388         | 13,748,049         | 14,902,177         | 16,075,959         |
| Other reserves.....                                     | 1,437,371          | 1,574,656          | 1,693,130          | 1,902,308          | 2,048,082          |
| <b>Totals, Reserves.....</b>                            | <b>28,103,391</b>  | <b>31,806,416</b>  | <b>35,544,455</b>  | <b>39,870,615</b>  | <b>44,169,720</b>  |
| <b>Surpluses—</b>                                       |                    |                    |                    |                    |                    |
| Debentures paid.....                                    | 9,194,253          | 10,728,279         | 13,150,040         | 15,244,778         | 17,651,368         |
| Local sinking funds.....                                | 7,962,121          | 8,396,255          | 8,735,051          | 9,099,211          | 9,386,177          |
| Additional operating surpluses.....                     | 13,553,673         | 15,328,256         | 15,909,044         | 15,476,143         | 14,575,234         |
| <b>Totals, Surpluses.....</b>                           | <b>30,710,047</b>  | <b>34,452,790</b>  | <b>37,794,135</b>  | <b>39,820,132</b>  | <b>41,612,779</b>  |
| <b>Totals, Liabilities, Reserves and Surpluses.....</b> | <b>106,909,146</b> | <b>116,400,635</b> | <b>125,537,858</b> | <b>132,376,064</b> | <b>135,703,253</b> |
| Percentages of net debt to total assets....             | 47.8               | 46.0               | 44.1               | 43.4               | 39.5               |

In Table 13 will be found details of the earnings and expenses of the electrical distributing systems of the urban municipalities served by the Hydro-Electric Power Commission, for the five years from 1929 to 1933. The first item of expense—power purchased—is the municipalities' share of the Commission's costs for generation, purchase, and transmission of the power in bulk; all other expenses and earnings relate to local distribution within the municipalities. A very rapid growth will be noted.

**13.—Statement of Earnings and Expenses of Electric Departments of Urban Municipalities Served by the Ontario Hydro-Electric Power Commission, calendar years 1929-33.**

| Item.                                                   | 1929.             | 1930.             | 1931.             | 1932.             | 1933.             |
|---------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Numbers of municipalities included.....                 | 259               | 267               | 275               | 280               | 282               |
|                                                         | \$                | \$                | \$                | \$                | \$                |
| Earnings—                                               |                   |                   |                   |                   |                   |
| Domestic service.....                                   | 9,873,682         | 10,542,904        | 10,972,952        | 11,447,308        | 11,429,101        |
| Commercial light service.....                           | 5,697,766         | 5,961,383         | 6,230,476         | 6,243,794         | 6,013,026         |
| Commercial power service.....                           | 9,376,159         | 9,340,653         | 9,456,225         | 9,356,694         | 9,080,522         |
| Municipal power.....                                    | 2,086,444         | 2,111,482         | 1,967,119         | 1,859,585         | 1,826,872         |
| Street lighting.....                                    | 1,598,262         | 1,674,528         | 1,746,855         | 1,783,973         | 1,779,583         |
| Sale of merchandise.....                                | 51,591            | 28,955            | 29,446            | 11,069            | 12,813            |
| Miscellaneous.....                                      | 522,781           | 581,915           | 511,140           | 513,787           | 485,925           |
| <b>Totals, Earnings.....</b>                            | <b>29,206,685</b> | <b>30,241,820</b> | <b>30,914,213</b> | <b>31,216,210</b> | <b>30,627,842</b> |
| Expenses—                                               |                   |                   |                   |                   |                   |
| Power purchased.....                                    | 16,379,163        | 17,323,078        | 18,085,167        | 19,109,036        | 19,330,862        |
| Substation operation.....                               | 461,270           | 479,503           | 487,484           | 503,352           | 484,765           |
| Substation maintenance.....                             | 274,276           | 320,717           | 303,536           | 300,186           | 288,583           |
| Distribution system, operation and maintenance.....     | 907,817           | 691,973           | 1,015,256         | 969,730           | 895,351           |
| Line transformer maintenance.....                       | 93,608            | 96,746            | 93,463            | 95,485            | 82,321            |
| Meter maintenance.....                                  | 242,126           | 278,379           | 284,634           | 300,105           | 283,116           |
| Consumers' premises expenses.....                       | 314,495           | 317,902           | 363,078           | 368,209           | 361,499           |
| Street lighting, operation and maintenance.....         | 359,373           | 372,211           | 368,120           | 360,710           | 353,082           |
| Promotion of business.....                              | 250,844           | 249,070           | 255,956           | 266,761           | 259,937           |
| Billing and collecting.....                             | 695,729           | 745,159           | 792,984           | 818,721           | 817,660           |
| General office, salaries and expenses.....              | 904,026           | 907,227           | 923,677           | 960,559           | 908,518           |
| Undistributed expenses.....                             | 502,206           | 523,863           | 520,893           | 436,693           | 349,101           |
| Truck operation and maintenance.....                    | 110,631           | 112,030           | 107,919           | 112,060           | 105,453           |
| Interest.....                                           | 2,152,695         | 2,220,214         | 2,328,094         | 2,532,941         | 2,426,286         |
| Sinking funds and principal payments on debentures..... | 1,687,202         | 1,828,062         | 2,061,719         | 2,244,368         | 2,319,319         |
| <b>Totals, Expenses.....</b>                            | <b>25,335,462</b> | <b>26,766,134</b> | <b>27,991,980</b> | <b>29,378,936</b> | <b>29,265,853</b> |
| Surpluses.....                                          | 3,871,223         | 3,475,686         | 2,922,233         | 1,837,274         | 1,361,989         |
| Depreciation charges.....                               | 1,469,847         | 1,574,992         | 1,755,719         | 1,920,896         | 1,989,000         |
| Surpluses less depreciation charges.....                | 2,401,376         | 1,900,694         | 1,166,514         | -83,622           | -627,011          |

**Rural Electrical Service in Ontario.**—During the past few years substantial progress has been made in Ontario in the field of rural electrification and the Commission's rural operations are now an important feature of its work. Towards this rural work the Ontario Government, pursuant to its policy of promoting the basic industry of agriculture, contributes, in the form of "grants-in-aid", 50 p.c. of the initial capital cost of distribution lines and equipment. In 1930 the Ontario legislature passed two additional Acts relating to rural service. The Rural Power District Loans Act, 1930, provides for advances up to \$1,000 to actual owners of lands and premises in rural power districts, for the installation of electrical wiring and the purchase of equipment. The Rural Power District Service Charge Act, 1930, provides for the fixing of low maximum service charges for all classes of rural service. In Table 14 will be found statistics relating to rural electrical distribution systems operated by the Hydro-Electric Power Commission. A rapid rate of increase is obvious from these statistics.



#### 11.—Statistics Relating to Electrical Service in Rural Power Districts Operated by the Ontario Hydro-Electric Power Commission, years ended Oct. 31, 1929-33.

NOTE.—*Re Rural Power District Legislation*, consult the following Provincial Government publications: *The Power Commission Act* (R.S.O., 1927, c. 57); *The Rural Hydro-Electric Distribution Act* (R.S.O., 1927, c. 59); *The Rural Power District Loans Act*, 1930 (20 Geo. V, c. 14), and *The Rural District Service Charge Act*, 1930 (20 Geo. V, c. 15).

| Item.                                                  | 1929.     | 1930.      | 1931.      | 1932.      | 1933.      |
|--------------------------------------------------------|-----------|------------|------------|------------|------------|
| Numbers of rural power districts.....                  | 141       | 160        | 167        | 172        | 171        |
| Numbers of townships served.....                       | 266       | 297        | 338        | 358        | 365        |
| Numbers of consumers.....                              | 37,340    | 46,715     | 55,600     | 59,534     | 61,845     |
| Miles of primary distribution lines.....               | 4,835     | 6,726      | 8,197      | 8,918      | 9,174      |
| Horse-power supplied.....                              | 21,138    | 26,782     | 31,790     | 32,853     | 32,372     |
| Revenues from customers..... \$                        | 1,684,455 | 1,998,252  | 2,456,989  | 2,752,353  | 2,796,023  |
| Total expenses..... \$                                 | 1,495,928 | 1,864,823  | 2,354,792  | 2,776,192  | 2,904,612  |
| Net surpluses..... \$                                  | 188,527   | 133,428    | 102,197    | —23,838    | —108,589   |
| Capital invested, totals..... \$                       | 9,324,514 | 12,665,249 | 15,507,583 | 16,964,227 | 17,693,875 |
| Provincial grants-in-aid, totals <sup>1</sup> ..... \$ | 4,636,195 | 6,297,954  | 7,677,842  | 8,393,308  | 8,752,993  |

<sup>1</sup> Included in previous item, "capital invested."

#### Subsection 2.—Hydro-Electric and Power Commissions in Other Provinces.

**Quebec.**—The Quebec Streams Commission, originally created by 1 Geo. V, c. 5, and given additional powers by 3 Geo. V, c. 6 (see R.S.Q., 1925, c. 46) and by 20 Geo. V, c. 34, is authorized to ascertain the water resources of the province, to make recommendations regarding their control, and to construct certain storage dams and operate them so as to regulate the flow of streams. The Commission has not undertaken the direct production of electric power, but has assisted companies engaged in such work by a systematic collection of data on the flow of the principal rivers and on the meteorological conditions, by investigation of numerous water-power sites and determination of the longitudinal profile of a large number of rivers, but mostly by the regulation of the flow of the principal power streams, thereby increasing very materially the amount of power available. This regulation is obtained by constructing storage dams holding water in large reservoirs during flood periods and using it to increase the flow at low-water periods.

The Commission has built storage reservoirs on the St. Maurice river, where the low-water flow has been increased from 6,000 second-feet to 18,000 second-feet, on lake Kenogami, the St. Francis, the Métis, the Ste. Anne de Beaupré and the North rivers. The entire cost to the Commission of these storage works has been about \$9,000,000 and the annual revenue exceeds \$750,000.

Other reservoirs which are the property of the Commission and are operated by that body have been built and paid for by the benefiting companies instead of being financed by the Commission, namely:—

In the Gatineau River watershed two large storage reservoirs, Baskatong and Cabonga, were completed in 1927 and 1929, with a combined capacity of 140 billions of cubic feet, making it possible to increase the flow of the Gatineau river from 3,000 second-feet to 10,000 second-feet. This work was paid for by the Gatineau Power Co.

On the Lièvre river, a storage reservoir of 18 billions of cubic feet was completed in 1930 at Cedars Rapids, one mile and a half above Notre-Dame-du-Laus and will be operated to maintain a regulated flow of 3,500 second-feet at High Falls. The cost of this dam was paid by the James MacLaren Co., of Buckingham.

On Mattawin river, St. Maurice District, a storage reservoir of 33 billions of cubic feet was built in 1930 at Taureau rapid, 80 miles from the mouth of the river, with a view to a better and more complete regulation of the flow of the St. Maurice river. This work was paid for by the Shawinigan Water and Power Co.

**Nova Scotia.**—The Nova Scotia Power Commission was created in 1919 with powers similar to those of the Ontario Commission. It is authorized to "generate, accumulate, transmit, distribute, supply and utilize electric energy and power in any part of the province of Nova Scotia, and do everything incidental thereto or deemed by the Commission necessary or expedient therefor". Its main operations, however, are undertaken with the approval of the Lieutenant-Governor in Council.

The Commission has already constructed several important hydro-electric developments and is now operating the following systems: *St. Margaret's Bay*—sells power by wholesale in Halifax and vicinity; *Mushamush*—sells power by wholesale and retail in Lunenburg Co.; *Sheet Harbour*—sells power by wholesale in Pictou Co., supplies demands of a groundwood pulp-mill at Sheet Harbour, retails in Sheet Harbour and in Musquodoboit and Stewiacke valleys and serves the town of Truro through the Pictou County Power Board; *Mersey System*—supplies demands of pulp and paper-mill at Brooklyn, Queens Co.; *Markland System*—supplies town of Liverpool, Caledonia valley and places in vicinity, including woodworking factory and that of a gold mine; *Tusket System*—sells power by wholesale in Yarmouth, also supplies demands of Cosmos Imperial Mills, Ltd., at Yarmouth; *Roseway System*—sells power wholesale in Shelburne and wholesale and retail in the town of Lockeport and vicinity; *Antigonish System*—supplies Antigonish town, and other communities in Antigonish Co.

The total installed capacity at Sept. 30, 1933 was 62,955 h.p., and there were about 257 miles of main transmission lines and 161 miles of secondary transmission and distribution lines. The total capital expenditure to Sept. 30, 1933, was \$13,902,-334 and the reserves were \$1,391,775.

**New Brunswick.**—The New Brunswick Electric Power Commission, incorporated under provincial legislation, carries on the generation and distribution of electrical power in southern New Brunswick. It operates an 11,000 h.p. hydro-electric plant at Musquash, twelve miles west of Saint John, and a 7,500 h.p. steam plant at Grand Lake, in the Minto coal area; 66,000-volt lines connect the two plants with each other and with the cities of Saint John and Moncton. A 33,000-volt line delivers power from the Grand Lake plant to Fredericton and Marysville.

Power is sold *en bloc* to the cities of Saint John, Moncton and Fredericton and to the town of Sussex, supplying 17,400 customers in these communities. Power is also distributed directly by the Commission to villages and rural districts, serving directly 5,250 customers. 235 miles of high voltage lines and 695 miles of distributing lines are in operation.

The Commission has under construction a 66,000-volt line from the Grand Lake plant to the Miramichi and is taking over the distribution services of the towns of Chatham and Newcastle on Dec. 31, 1934.

The Commission has a plant investment of \$6,285,000, and an annual revenue of \$800,000.

**Manitoba.**—The formation of the Manitoba Power Commission was authorized by the passage of the Electrical Power Transmission Act of 1919 (c. 30, also c. 61, Consolidated Amendments, 1924) which authorizes the Commission to make provi-

sion for generating electrical energy, to enter into contracts for the purchase of power in bulk from generating agencies, and for its transmission and sale to municipalities, corporations and individuals. In 1929 legislation was passed whereby the Government undertook to pay interest charges and sinking fund charges on an amount not exceeding 50 p.c. of the capital cost of the construction and erection of equipment required for the generation and transmission of electrical power or energy to municipalities, farms and other customers.

The Commission has built and is now operating an extensive transmission system under authority of the above Act, supplying electrical power to many thousands of customers throughout Manitoba. This power is purchased under the Seven Sisters power contract from the Northwestern Power Co. and transmitted over high tension steel-tower lines to Portage la Prairie, Brandon and Morden. From this main system power is transmitted to the territory south of the Winnipeg-Brandon main line as far as the International Boundary.

A branch system serving the territory along the western boundary of the province, including the towns and villages of Reston, Pipestone, Melita, Napinka, Elkhorn, Miniota, Crandall and Arrow River, has been constructed and is operated by the Commission. This system which, until August 1931, was supplied with power generated by the Commission's plant at Virden, is now tied into the main system and supplied with power generated at Seven Sisters.

Under the authority granted by the Electrical Power Transmission Act of 1919, the Commission has made purchases of municipally-owned plants—notably at Birtle and Brandon—or entered into contracts for the supply of power by municipally-owned plants—as at Dauphin—or by the Winnipeg Electric Co., whereby power is supplied to outlying districts. This phase of the Commission's activities has shown steady growth.

The Commission owns and operates the central steam-heating system at Brandon, supplying heat to the business and part of the residential section of the city. The Commission also owns and operates the gas plant supplying gas to commercial and residential customers. It is the intention of the Commission to supply all outlying power areas from the main system just as soon as their loads are sufficient to justify the cost of building extensions.

**Saskatchewan.**—The Saskatchewan Power Commission was established in 1929 under the Power Commission Act (R.S.S., 1930, c. 30), authorizing the Commission to manufacture, sell and supply electrical energy, to acquire and develop water-power sites, to acquire or construct steam and oil plants, to construct transmission lines, to purchase power and to enter into contracts with municipalities for the supply of energy. The Commission is also given certain control and regulatory powers *re* the operation of electric public utilities, and is charged with the responsibility for the administration of the Electrical Licensing Act (R.S.S., 1930, c. 214).

The initial operations of the Commission were concerned with acquiring by purchase municipally-owned plants which were improved, enlarged or supplemented by installations made by the Commission and were operated as individual systems of supply. Examples of such acquisitions made in 1929 were the Saskatoon, Humboldt and Rosthern plants, while the plant at Shellbrook, the Wynyard-Elfrs-Wadena and the Leader-Prelate-Sceptre systems, served from plants at Wynyard and Leader, were established by the Commission in the same year. In 1930 the municipal plants at North Battleford, Swift Current, Unity, Maple Creek and

Lanigan were acquired, and in 1931 the generating plant at Willow Bunch was added. The Watrous-Nokomis system, including ten towns and villages, was also purchased from Canadian Utilities, Ltd., and has been connected with the Bulyea system of the Montreal Engineering Co., Ltd.

Transmission lines run from Saskatoon, as the centre of the main system, easterly to Humboldt, northerly to Shellbrook and Duck Lake, westerly to Radisson, and southwesterly to Rosetown. Additional lines link Rosetown with Moose Jaw and Tisdale, where the Commission has a generating plant, with Nipawin. The systems built in 1929 have been extended. All transmission lines supply towns and villages along their courses. There are now 1,357 miles of transmission lines owned and operated.

The Commission purchases several blocks of power or contracts for the interchange of power from private interests in addition to supplying energy generated at its own plants. The number of consumers served directly in 123 towns and villages is approximately 7,574 and those indirectly served (where the cities operate the distribution systems) number 15,833. The total plant investment as at Dec. 31, 1933, was approximately \$7,618,279.

**British Columbia.**—British Columbia as a province has not, up to the present time, established any commissions for the development and use of water power for the distribution of electrical energy. Such power developments as have been undertaken to date have been by private interests or by municipalities. The Water Board, a quasi-judicial body, regulates the rates which are charged by public utility companies.



## CHAPTER XIV.—MANUFACTURES.\*

### Section 1.—The Evolution of Canadian Manufacturing Industries.

**Early Manufactures.**—The type of manufactures established in a community will, in the beginning, be largely determined, more especially where transportation charges are high, by the raw materials available in that community. For example, probably the first agricultural process to be carried on by Europeans in what is now the Dominion of Canada was the raising of a crop of grain at Port Royal, Nova Scotia, in 1605; the first corresponding manufacturing process was the grinding of the grain in the autumn of that year. Other early manufactures were also necessarily connected with the satisfaction of the primary needs of human beings for food, clothing and shelter, and with the other primary need for protection. At a census of occupations taken in 1681, we find enumerated a comparatively large number of tailors and shoemakers, masons and carpenters, gunsmiths and edge-tool makers.

The earlier manufactures were necessarily of a rather crude and primitive type, concerned with the production of commodities which were too bulky to bear the heavy transportation charges of those days, when only one round trip per year could be made between France and Quebec, and vessels were constantly subject to the storms of the North Atlantic and very frequently to the attacks of the English. Indeed, although the colonial policy of France under the old *régime* aimed at preventing the manufacture in Canada of any article which could be imported from the Mother Country, the uncertainties of transportation due to the colonial wars of the period—France and England were at war for 34 years out of the 74 years between 1689 and 1763—led to a necessary relaxation of restrictions. On the occasion of the English capture of a convoy in 1705, the colonists were driven to manufacture rough cloth out of whatever fibres they could obtain, such as the Canadian nettle and the inner bark of the basswood. Such events led to the introduction of sheep raising and the manufacturing of homespun woollens. From these humble beginnings arose the important textile industries of to-day which are able to produce the finest fabrics of cotton, wool or silk.

In the days when ships were built of wood Canada was advantageously situated with respect to their production. Pont-Gravé built two small vessels at Port Royal in 1606 and one at Tadoussac in 1608. Talon, in 1666, built on his private account a ship of 120 tons, and in 1672 a vessel of over 400 tons was on the stocks at Quebec. Ships were built for the French navy and for the West India trade. Under the British *régime* shipbuilding was conducted on a large scale in Quebec and New Brunswick, the industry reaching its climax of prosperity about 1865, when 105 Quebec-built ships, with a total tonnage of 59,333, were registered. Thereafter iron and steel ships gradually supplanted the wooden vessels, but the forests of Canada have since provided the raw material for the pulp and paper and other important industries.

The manufacture of mineral products has been of comparatively recent date. Iron deposits in the St. Maurice region were worked as early as 1733 and furnaces

\* Revised by A. Cohen, B. Com., Acting Chief, General Manufactures Branch, Dominion Bureau of Statistics. This Branch publishes individual reports on the vegetable products, textile and miscellaneous manufacturing industries, also reports on the manufacturing industries generally for Canada and the provinces. For a complete list of publications of this Branch see Chapter XXIX, Section 1, under "Production".

set up there for smelting in 1737 were in fairly constant operation until 1883. The iron and steel used in manufacturing in Canada, as well as the coal which has supplied the manufacturing industries with power, has in the main been imported from the United States, chiefly because the principal manufacturing centres of this country in the St. Lawrence and Great Lakes region are fairly conveniently situated with regard to the coal and iron supplies of the United States and far away from the coal and iron supplies of the Maritime Provinces. In recent years the shortage of coal has been made up for by the increasing use of electric power, while the great bulk of the pig iron used in Canadian manufactures is now made in domestic blast furnaces.

#### **Subsection 1.—Growth of Manufacturing in Canada since 1870.**

**Growth of Canadian Manufactures Prior to the War.**—Until the later '90's, the growth of Canadian manufacturing industries was not particularly rapid, though the great fall in the prices of commodities during the period from 1873 to 1897 was largely responsible for the comparatively slow growth of the values of manufactured commodities from \$221,600,000 in 1870 to \$469,800,000 in 1890. Afterwards there was a change and the prices of commodities commenced to rise, while the industries generally shared in the advantages of the great growing period from 1900 to 1912. The gross product of establishments with five hands or over increased from \$368,700,000 in 1890 to \$1,166,000,000 in 1910 and to \$1,381,500,000 in 1915. The fundamental advantages of the position of Canada, her abundant raw material, her inexhaustible water power, her growing home market in the expanding West, had contributed to this result.

In the present, as in the past, Canadian manufacturing production has been chiefly dependent upon the use of Canadian raw material, though this is less true than formerly. Raw cotton, for example, is imported from the Southern States, hides from Argentina, rubber from the Straits Settlements and Malay peninsula, sugar from Fiji and the British West Indies, and wool from England, Australia and New Zealand to supply the raw material for Canadian manufacturing industries.

**The Influence of the War.**—The influence of the War upon the manufactures of Canada was profound and far-reaching, tending to promote the diversification of products and the production at home of many commodities which had previously been imported. On account of the practical suspension of the importation of manufactured goods of many kinds from Europe, enterprising Canadian manufacturers were given opportunities of entering upon new lines of manufacture with practical control of the market. There was added to this the reflex effect of the great prosperity of agriculture, produced by the unprecedented prices of war time, with the general result that industry worked at high pressure, not only to produce munitions and military supplies for the armies of the Allies, but also to make the manifold varieties of goods required for the stimulated civilian consumption. The world shortage of staple commodities, coupled with a strong domestic demand, gave Canadian industries in general a pronounced stimulus toward greater production and, in a great number of cases, the capacity of manufacturing plants was increased; this increase created a demand for greater supplies of raw material. Incidentally, factory methods became more specialized and a high degree of administrative and mechanical efficiency was attained, and Canada, partly owing to the absorption of the energies of Europe in the War, assumed a new position as one of the leading manufacturing countries of the world. The inflation of the war period also led to unprecedented figures of values produced.

The great boom in Canadian manufactures described above reached its height in the summer of 1920, statistics for that year showing a gross value of products which was not exceeded until 1929. These values in 1929 reached a higher point than in the post-war boom of 1920, although the prices of manufactured goods had dropped about 41 p.c. in the intervening period. This steady expansion was halted during 1930, owing to the world-wide recession in business which set in toward the end of 1929, with the result that Canadian manufacturing production in 1930 which was valued at \$3,428,970,628 dropped back to near the 1927 level. The recession in manufacturing activity continued during 1931, 1932 and 1933, as a result of which the gross value of production dropped still lower, *viz.*, to \$2,086,847,847. However, employment reported by manufacturing firms showed an increase of 11 p.c. in 1934 over 1933, indicating an upturn in manufacturing activity in 1934.

The growth of manufacturing production since 1870 is shown in Table 1 following, while the increasing importance of Canadian manufacturing for the international market may be illustrated by the fact that Canadian exports of manufactured produce increased from less than \$3,000,000 per annum on the average of 1871-75 to \$614,000,000 in the post-war fiscal year ended Mar. 31, 1920. Exports of "fully or chiefly manufactured" products in the fiscal year ended Mar. 31, 1933, amounted in value to \$202,729,536 and exports of "partly manufactured" products to \$66,693,633.

### 1.—Historical Summary of Statistics of Manufactures for the Dominion, 1870-1932.

NOTE.—Certain duplications in the gross revenue of central electric stations were eliminated in a net figure and the difference shown as a "cost of material" for the years 1926-29, but net revenues only are now included for both gross and net values for those years. Therefore, the figures here given differ slightly from those formerly published. Also prior to 1929 totals for the chemicals and allied products industry included the value placed on intermediate products used in further processes in the producing works. To this extent, totals are not comparable to those of 1929 and subsequent years. Further, statistics of the non-ferrous metal smelting industries were included in manufactures for the first time in 1925.

| Year.                                                         | Establishments. | Capital.      | Employees. | Salaries and Wages. | Cost of Materials. | Net Value of Products. | Gross Value of Products. |
|---------------------------------------------------------------|-----------------|---------------|------------|---------------------|--------------------|------------------------|--------------------------|
|                                                               | No.             | \$            | No.        | \$                  | \$                 | \$                     | \$                       |
| (All establishments irrespective of the number of employees.) |                 |               |            |                     |                    |                        |                          |
| 1870.....                                                     | 41,259          | 77,964,020    | 187,942    | 40,851,009          | 124,907,846        | 95,709,927             | 221,617,773              |
| 1880.....                                                     | 49,722          | 165,302,623   | 254,935    | 59,429,002          | 179,918,593        | 129,757,475            | 309,676,066              |
| 1890.....                                                     | 75,964          | 353,213,000   | 369,595    | 100,415,350         | 250,759,292        | 219,088,594            | 469,847,886              |
| (Establishments with five hands and over.)                    |                 |               |            |                     |                    |                        |                          |
| 1890.....                                                     | 14,065          | -             | 272,033    | 79,234,311          | -                  | -                      | 368,696,723              |
| 1900.....                                                     | 14,650          | 446,916,487   | 339,173    | 113,249,350         | 266,527,858        | 214,525,517            | 481,053,375              |
| 1910.....                                                     | 19,218          | 1,247,583,609 | 515,203    | 241,003,416         | 601,509,018        | 564,466,621            | 1,165,975,639            |
| 1915.....                                                     | 15,593          | 1,958,705,230 | -          | 283,311,505         | 791,943,433        | 589,603,792            | 1,381,547,225            |
| (All establishments irrespective of the number of employees.) |                 |               |            |                     |                    |                        |                          |
| 1917.....                                                     | 22,838          | 2,696,154,030 | 621,694    | 509,382,027         | 1,541,087,416      | 1,332,180,767          | 2,873,268,183            |
| 1918.....                                                     | 22,910          | 2,926,815,424 | 618,305    | 582,457,488         | 1,829,040,369      | 1,460,723,777          | 3,289,764,146            |
| 1919.....                                                     | 23,249          | 3,095,025,799 | 611,008    | 618,463,139         | 1,780,629,840      | 1,509,870,745          | 3,290,500,585            |
| 1920.....                                                     | 23,351          | 3,371,940,653 | 609,586    | 732,120,585         | 2,085,271,649      | 1,686,978,408          | 3,772,250,057            |
| 1921.....                                                     | 22,235          | 3,190,026,358 | 456,076    | 518,785,137         | 1,366,893,685      | 1,209,143,344          | 2,576,037,029            |
| 1922.....                                                     | 22,541          | 3,244,302,410 | 474,430    | 510,431,312         | 1,283,774,723      | 1,198,434,407          | 2,482,209,130            |
| 1923.....                                                     | 22,642          | 3,380,322,950 | 525,267    | 571,470,028         | 1,470,140,139      | 1,311,025,375          | 2,781,165,514            |
| 1924.....                                                     | 22,178          | 3,538,813,460 | 508,503    | 559,884,045         | 1,438,409,681      | 1,256,643,901          | 2,695,053,582            |
| 1925.....                                                     | 22,331          | 3,808,309,981 | 544,225    | 596,015,171         | 1,587,665,408      | 1,360,879,907          | 2,948,545,315            |
| 1926.....                                                     | 22,708          | 3,981,569,590 | 581,539    | 653,850,933         | 1,728,624,192      | 1,492,645,039          | 3,221,269,231            |
| 1927.....                                                     | 22,936          | 4,237,631,558 | 618,933    | 693,932,228         | 1,758,789,334      | 1,635,923,936          | 3,394,713,270            |
| 1928.....                                                     | 23,379          | 4,780,296,049 | 658,023    | 755,199,372         | 1,919,438,703      | 1,819,046,025          | 3,738,484,728            |
| 1929.....                                                     | 23,597          | 5,083,014,754 | 694,434    | 813,049,842         | 2,032,020,975      | 1,997,350,365          | 4,029,371,340            |
| 1930.....                                                     | 23,020          | 5,203,316,760 | 644,439    | 736,092,766         | 1,666,983,902      | 1,761,986,726          | 3,428,970,628            |
| 1931.....                                                     | 24,501          | 4,961,312,408 | 557,426    | 624,545,561         | 1,223,880,011      | 1,474,581,851          | 2,698,461,862            |
| 1932.....                                                     | 24,544          | 4,741,255,610 | 495,398    | 505,883,323         | 955,968,683        | 1,170,225,872          | 2,126,194,555            |
| 1933.....                                                     | 25,232          | 4,689,373,704 | 493,903    | 465,562,090         | 969,188,574        | 1,117,659,273          | 2,086,847,847            |



## 2.—Summary of Statistics of Manufactures, by Provinces, for Representative Years, 1917-33.

NOTE.—See headnote to Table 1, p.443. Statistics for certain years between 1917 and 1929, omitted here, are given on pp. 407-9 of the 1931 Year Book.

| Province.                          | Estab-<br>lish-<br>ments. | Capital.      | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost<br>of<br>Materials. | Net<br>Value<br>of<br>Products. | Gross<br>Value<br>of<br>Products. |
|------------------------------------|---------------------------|---------------|-----------------|---------------------------|--------------------------|---------------------------------|-----------------------------------|
|                                    | No.                       | \$            | No.             | \$                        | \$                       | \$                              | \$                                |
| <b>1917.</b>                       |                           |               |                 |                           |                          |                                 |                                   |
| <b>Canada</b> .....                | 22,838                    | 2,696,154,030 | 621,694         | 509,382,027               | 1,541,057,416            | 1,332,180,767                   | 2,873,268,183                     |
| P.E. Island.....                   | 418                       | 2,225,482     | 1,588           | 683,149                   | 3,083,718                | 1,816,986                       | 4,905,704                         |
| Nova Scotia.....                   | 1,387                     | 128,052,239   | 25,814          | 19,177,657                | 102,456,085              | 58,751,437                      | 161,207,522                       |
| New Brunswick.....                 | 987                       | 64,010,777    | 20,201          | 13,192,740                | 32,466,048               | 27,996,000                      | 60,462,048                        |
| Quebec.....                        | 7,193                     | 793,589,489   | 191,969         | 143,291,802               | 385,486,085              | 396,539,787                     | 782,026,472                       |
| Ontario.....                       | 9,471                     | 1,302,075,630 | 306,270         | 264,442,393               | 795,095,511              | 685,063,845                     | 1,490,159,356                     |
| Manitoba.....                      | 816                       | 95,530,452    | 20,055          | 17,381,806                | 69,884,850               | 45,062,533                      | 114,947,383                       |
| Saskatchewan.....                  | 633                       | 30,096,623    | 6,846           | 5,906,150                 | 22,093,445               | 15,529,428                      | 37,622,873                        |
| Alberta.....                       | 720                       | 60,552,814    | 10,191          | 9,323,221                 | 42,725,021               | 26,105,121                      | 68,830,142                        |
| British Columbia.....              | 1,202                     | 215,681,355   | 38,689          | 35,864,308                | 87,764,650               | 74,978,844                      | 162,743,494                       |
| Yukon.....                         | 11                        | 3,739,169     | 71              | 118,801                   | 26,403                   | 336,786                         | 363,189                           |
| <b>1920.</b>                       |                           |               |                 |                           |                          |                                 |                                   |
| <b>Canada</b> .....                | 23,351                    | 3,371,940,653 | 609,586         | 732,120,583               | 2,085,271,649            | 1,686,978,408                   | 3,772,250,057                     |
| P.E. Island.....                   | 384                       | 2,734,719     | 1,327           | 888,121                   | 4,164,223                | 2,221,746                       | 6,385,969                         |
| Nova Scotia.....                   | 1,388                     | 141,549,856   | 23,834          | 26,127,781                | 85,724,785               | 63,274,708                      | 148,999,493                       |
| New Brunswick.....                 | 928                       | 105,671,688   | 19,241          | 19,505,048                | 60,812,641               | 46,910,631                      | 107,723,272                       |
| Quebec.....                        | 7,677                     | 1,028,226,105 | 186,308         | 205,829,155               | 553,558,520              | 517,693,125                     | 1,071,251,645                     |
| Ontario.....                       | 9,473                     | 1,668,079,488 | 300,794         | 369,846,193               | 1,071,843,374            | 822,570,783                     | 1,894,414,157                     |
| Manitoba.....                      | 773                       | 112,896,616   | 24,381          | 33,357,872                | 92,729,271               | 65,492,637                      | 158,221,908                       |
| Saskatchewan.....                  | 639                       | 31,727,162    | 7,182           | 10,249,392                | 34,894,105               | 24,655,529                      | 59,549,634                        |
| Alberta.....                       | 722                       | 61,063,132    | 11,387          | 15,903,609                | 56,139,646               | 32,466,428                      | 88,606,074                        |
| British Columbia<br>and Yukon..... | 1,367                     | 219,991,887   | 35,132          | 50,413,414                | 125,405,084              | 111,692,821                     | 237,097,905                       |
| <b>1921.</b>                       |                           |               |                 |                           |                          |                                 |                                   |
| <b>Canada</b> .....                | 22,235                    | 3,190,026,358 | 456,076         | 518,785,137               | 1,366,893,685            | 1,209,143,344                   | 2,576,037,029                     |
| P.E. Island.....                   | 339                       | 2,308,216     | 893             | 522,438                   | 2,516,415                | 1,356,940                       | 3,873,355                         |
| Nova Scotia.....                   | 1,208                     | 105,254,364   | 14,521          | 14,400,509                | 41,099,835               | 36,384,726                      | 77,484,561                        |
| New Brunswick.....                 | 867                       | 99,204,791    | 12,441          | 10,678,721                | 32,151,631               | 23,193,562                      | 55,345,193                        |
| Quebec.....                        | 7,173                     | 981,177,681   | 146,763         | 151,474,436               | 390,119,293              | 361,964,897                     | 752,084,190                       |
| Ontario.....                       | 9,328                     | 1,613,486,222 | 228,943         | 274,061,696               | 704,814,433              | 625,170,507                     | 1,329,984,940                     |
| Manitoba.....                      | 775                       | 93,334,151    | 14,851          | 19,945,727                | 60,596,556               | 45,431,304                      | 106,027,860                       |
| Saskatchewan.....                  | 690                       | 30,265,504    | 4,343           | 5,677,449                 | 25,589,403               | 15,092,337                      | 40,681,740                        |
| Alberta.....                       | 709                       | 55,685,908    | 8,227           | 10,072,714                | 33,912,502               | 26,152,276                      | 60,064,778                        |
| British Columbia<br>and Yukon..... | 1,236                     | 209,309,521   | 25,094          | 31,951,397                | 76,093,617               | 74,396,795                      | 150,490,412                       |
| <b>1927.</b>                       |                           |               |                 |                           |                          |                                 |                                   |
| <b>Canada</b> .....                | 22,936                    | 4,337,631,558 | 618,933         | 693,932,228               | 1,758,789,334            | 1,635,923,936                   | 3,394,713,270                     |
| P.E. Island.....                   | 291                       | 3,081,504     | 2,232           | 687,849                   | 2,854,943                | 1,638,190                       | 4,493,133                         |
| Nova Scotia.....                   | 1,190                     | 128,155,040   | 17,864          | 13,610,944                | 41,498,489               | 32,398,977                      | 73,807,466                        |
| New Brunswick.....                 | 872                       | 99,087,327    | 18,970          | 14,999,101                | 42,353,973               | 29,886,083                      | 72,240,056                        |
| Quebec.....                        | 7,206                     | 1,376,654,019 | 196,094         | 203,724,997               | 446,344,948              | 516,221,599                     | 983,566,547                       |
| Ontario.....                       | 9,512                     | 2,134,181,377 | 296,034         | 355,174,778               | 920,409,136              | 818,132,010                     | 1,738,981,146                     |
| Manitoba.....                      | 859                       | 151,373,047   | 23,031          | 28,934,926                | 78,862,212               | 62,578,012                      | 141,441,124                       |
| Saskatchewan.....                  | 721                       | 38,387,248    | 5,683           | 7,280,945                 | 32,147,303               | 20,015,654                      | 52,162,957                        |
| Alberta.....                       | 776                       | 81,664,730    | 11,285          | 13,511,359                | 50,209,720               | 34,376,296                      | 84,586,016                        |
| British Columbia<br>and Yukon..... | 1,509                     | 325,047,266   | 47,740          | 56,007,334                | 123,668,610              | 120,676,215                     | 244,344,825                       |
| <b>1929.</b>                       |                           |               |                 |                           |                          |                                 |                                   |
| <b>Canada</b> .....                | 23,597                    | 5,083,014,754 | 694,434         | 813,049,842               | 2,032,020,975            | 1,997,350,363                   | 4,029,371,340                     |
| P.E. Island.....                   | 276                       | 3,480,934     | 2,133           | 781,448                   | 2,864,383                | 1,773,894                       | 4,838,777                         |
| Nova Scotia.....                   | 1,195                     | 135,062,325   | 20,966          | 17,925,190                | 50,781,055               | 42,786,293                      | 93,567,348                        |
| New Brunswick.....                 | 860                       | 117,905,970   | 18,517          | 15,712,322                | 39,845,223               | 30,980,431                      | 70,825,654                        |
| Quebec.....                        | 7,156                     | 1,673,011,442 | 213,467         | 233,803,672               | 537,828,611              | 617,372,403                     | 1,155,201,014                     |
| Ontario.....                       | 9,910                     | 2,418,340,450 | 339,859         | 421,789,728               | 1,057,407,249            | 1,022,984,190                   | 2,080,391,439                     |
| Manitoba.....                      | 923                       | 173,152,948   | 26,318          | 34,158,588                | 88,055,264               | 75,750,746                      | 163,806,010                       |
| Saskatchewan.....                  | 761                       | 58,777,124    | 8,047           | 10,438,759                | 51,143,205               | 29,292,332                      | 80,435,537                        |
| Alberta.....                       | 817                       | 107,648,028   | 13,748          | 16,460,038                | 62,700,608               | 44,123,868                      | 106,824,476                       |
| British Columbia<br>and Yukon..... | 1,609                     | 394,866,933   | 51,379          | 61,980,107                | 141,395,377              | 132,286,208                     | 273,681,685                       |
| <b>1930.</b>                       |                           |               |                 |                           |                          |                                 |                                   |
| <b>Canada</b> .....                | 24,020                    | 5,203,316,760 | 644,439         | 736,092,766               | 1,666,983,902            | 1,761,986,726                   | 3,428,970,628                     |
| P.E. Island.....                   | 267                       | 3,441,958     | 2,055           | 788,106                   | 2,546,827                | 1,708,139                       | 4,254,966                         |
| Nova Scotia.....                   | 1,302                     | 133,671,163   | 21,069          | 17,537,690                | 44,506,178               | 41,296,743                      | 85,802,921                        |
| New Brunswick.....                 | 924                       | 140,611,530   | 18,422          | 14,988,441                | 33,897,264               | 29,570,998                      | 63,468,262                        |
| Quebec.....                        | 7,410                     | 1,727,064,388 | 204,802         | 216,835,675               | 462,244,278              | 560,036,409                     | 1,022,240,687                     |
| Ontario.....                       | 9,888                     | 2,431,369,848 | 307,477         | 370,781,452               | 836,660,780              | 876,358,542                     | 1,713,025,322                     |
| Manitoba.....                      | 937                       | 188,413,164   | 26,488          | 33,941,235                | 74,761,265               | 67,663,725                      | 142,424,990                       |
| Saskatchewan.....                  | 750                       | 65,486,140    | 7,248           | 9,239,593                 | 35,698,157               | 26,663,609                      | 62,276,766                        |
| Alberta.....                       | 845                       | 109,930,271   | 14,099          | 17,092,033                | 53,621,884               | 40,692,898                      | 94,314,782                        |
| British Columbia<br>and Yukon..... | 1,697                     | 403,328,298   | 42,779          | 54,898,541                | 123,131,269              | 117,990,663                     | 241,121,932                       |



## 2.—Summary of Statistics of Manufactures, by Provinces, for Representative Years, 1917-33—concluded.

| Province.                          | Estab-<br>lish-<br>ments. | Capital.             | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost<br>of<br>Materials. | Net<br>Value of<br>Products. | Gross<br>Value of<br>Products. |
|------------------------------------|---------------------------|----------------------|-----------------|---------------------------|--------------------------|------------------------------|--------------------------------|
|                                    | No.                       | \$                   | No.             | \$                        | \$                       | \$                           | \$                             |
| <b>1931.</b>                       | <b>24,501</b>             | <b>4,961,312,408</b> | <b>557,426</b>  | <b>624,545,561</b>        | <b>1,223,880,011</b>     | <b>1,474,551,851</b>         | <b>2,698,461,862</b>           |
| P. E. Island.....                  | 290                       | 4,019,238            | 1,170           | 809,122                   | 2,349,367                | 1,787,209                    | 4,136,576                      |
| Nova Scotia.....                   | 1,449                     | 129,824,727          | 16,175          | 14,881,673                | 33,288,250               | 37,391,253                   | 70,679,503                     |
| New Brunswick.....                 | 872                       | 128,859,472          | 13,107          | 12,706,897                | 25,631,856               | 29,577,962                   | 55,209,818                     |
| Quebec.....                        | 7,505                     | 1,662,811,076        | 180,808         | 187,362,564               | 369,044,132              | 480,110,221                  | 849,154,353                    |
| Ontario.....                       | 10,140                    | 2,285,361,451        | 289,739         | 313,676,300               | 597,879,782              | 714,521,036                  | 1,312,400,828                  |
| Manitoba.....                      | 955                       | 181,935,311          | 24,193          | 30,706,209                | 65,149,392               | 63,391,473                   | 118,540,865                    |
| Saskatchewan.....                  | 768                       | 68,547,866           | 6,061           | 7,546,703                 | 22,540,618               | 21,724,533                   | 44,265,151                     |
| Alberta.....                       | 886                       | 107,427,603          | 11,798          | 14,213,753                | 36,090,169               | 32,277,242                   | 68,367,411                     |
| British Columbia<br>and Yukon..... | 1,636                     | 382,525,614          | 34,375          | 42,642,340                | 81,906,435               | 93,800,922                   | 175,707,357                    |
| <b>1932.</b>                       | <b>24,544</b>             | <b>4,741,255,610</b> | <b>495,398</b>  | <b>505,883,323</b>        | <b>955,968,683</b>       | <b>1,170,225,872</b>         | <b>2,126,194,555</b>           |
| P. E. Island.....                  | 274                       | 3,867,195            | 1,147           | 725,237                   | 1,949,038                | 1,617,930                    | 3,566,968                      |
| Nova Scotia.....                   | 1,404                     | 125,639,707          | 13,142          | 11,199,861                | 22,920,430               | 27,430,624                   | 50,351,054                     |
| New Brunswick.....                 | 841                       | 117,454,168          | 11,987          | 10,623,685                | 20,776,650               | 26,695,743                   | 47,472,933                     |
| Quebec.....                        | 7,851                     | 1,632,955,979        | 161,439         | 151,481,138               | 292,203,152              | 376,213,941                  | 668,417,093                    |
| Ontario.....                       | 9,844                     | 2,144,008,857        | 239,231         | 256,207,232               | 459,910,999              | 568,486,655                  | 1,028,397,654                  |
| Manitoba.....                      | 970                       | 190,545,652          | 22,255          | 24,157,589                | 45,591,099               | 50,464,930                   | 96,056,029                     |
| Saskatchewan.....                  | 774                       | 63,294,823           | 5,535           | 6,392,062                 | 18,214,552               | 17,886,961                   | 36,101,516                     |
| Alberta.....                       | 943                       | 100,609,788          | 11,174          | 11,886,114                | 28,442,192               | 26,851,640                   | 55,293,832                     |
| British Columbia<br>and Yukon..... | 1,643                     | 362,879,441          | 29,488          | 33,210,405                | 65,960,568               | 74,577,448                   | 140,538,016                    |
| <b>1933.</b>                       | <b>25,232</b>             | <b>4,689,373,704</b> | <b>493,903</b>  | <b>465,562,090</b>        | <b>969,188,574</b>       | <b>1,117,659,273</b>         | <b>2,086,847,847</b>           |
| P. E. Island.....                  | 263                       | 3,386,095            | 1,065           | 597,980                   | 1,592,301                | 1,485,516                    | 3,077,817                      |
| Nova Scotia.....                   | 1,378                     | 123,645,961          | 13,260          | 10,701,189                | 25,402,432               | 27,499,505                   | 52,901,937                     |
| New Brunswick.....                 | 800                       | 122,130,573          | 11,994          | 9,877,690                 | 20,471,624               | 24,354,723                   | 44,826,347                     |
| Quebec.....                        | 8,384                     | 1,648,872,387        | 163,571         | 141,358,231               | 292,950,595              | 360,115,939                  | 653,066,534                    |
| Ontario.....                       | 9,844                     | 2,087,072,413        | 235,810         | 234,391,900               | 465,106,584              | 540,126,918                  | 1,005,233,502                  |
| Manitoba.....                      | 1,073                     | 179,720,120          | 20,749          | 20,699,449                | 44,697,266               | 46,711,175                   | 91,408,441                     |
| Saskatchewan.....                  | 818                       | 64,950,579           | 5,614           | 5,871,180                 | 19,164,919               | 17,034,689                   | 36,199,608                     |
| Alberta.....                       | 975                       | 98,345,221           | 10,944          | 10,896,132                | 29,505,155               | 25,137,651                   | 54,642,706                     |
| British Columbia<br>and Yukon..... | 1,697                     | 361,250,355          | 30,896          | 31,168,339                | 70,297,698               | 75,193,257                   | 145,490,955                    |

## 3.—Summary of Statistics of Manufactures, by Industrial Groups, for Representative Years, 1917-33.

NOTE.—See headnote to Table 1, p. 443. Statistics for certain years between 1917 and 1929, omitted here, are given on pp. 410-13 of the 1931 Year Book.

| Industrial Group.                   | Estab-<br>lish-<br>ments. | Capital.             | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost<br>of<br>Materials. | Net<br>Value of<br>Products. | Gross<br>Value of<br>Products. |
|-------------------------------------|---------------------------|----------------------|-----------------|---------------------------|--------------------------|------------------------------|--------------------------------|
|                                     | No.                       | \$                   | No.             | \$                        | \$                       | \$                           | \$                             |
| <b>1917.</b>                        | <b>22,838</b>             | <b>2,696,154,030</b> | <b>621,694</b>  | <b>599,382,027</b>        | <b>1,541,087,416</b>     | <b>1,332,180,767</b>         | <b>2,873,268,183</b>           |
| Vegetable products.....             | 3,816                     | 274,722,765          | 61,288          | 44,780,329                | 365,483,923              | 181,072,143                  | 546,556,066                    |
| Animal products.....                | 5,486                     | 207,165,245          | 46,994          | 35,753,133                | 320,302,039              | 124,103,900                  | 444,406,029                    |
| Textile products.....               | 1,360                     | 196,823,197          | 82,639          | 51,189,060                | 132,479,763              | 115,739,096                  | 248,218,859                    |
| Wood and paper.....                 | 7,255                     | 537,731,225          | 153,751         | 115,137,384               | 149,627,482              | 248,986,564                  | 398,914,046                    |
| Iron and its pro-<br>ducts.....     | 1,404                     | 634,642,989          | 142,416         | 140,334,255               | 357,688,333              | 334,616,810                  | 692,305,143                    |
| Non-ferrous metals.....             | 296                       | 69,421,911           | 18,220          | 15,898,890                | 46,445,469               | 41,039,351                   | 87,484,820                     |
| Non-metallic min-<br>erals.....     | 1,410                     | 150,328,144          | 22,284          | 19,360,952                | 38,724,530               | 60,802,754                   | 99,527,284                     |
| Chemicals and<br>allied products... | 539                       | 175,836,690          | 56,153          | 51,505,484                | 99,068,092               | 131,381,995                  | 230,450,087                    |
| Miscellaneous in-<br>dustries.....  | 606                       | 93,477,696           | 29,102          | 27,644,825                | 30,967,785               | 49,901,216                   | 80,869,001                     |
| Central electric<br>stations.....   | 666                       | 356,004,168          | 8,847           | 7,777,715                 | -                        | 44,536,848                   | 44,536,848                     |

### 3.—Summary of Statistics of Manufactures, by Industrial Groups, for Representative Years, 1917-33—continued.

| Industrial Group.                                | Estab-<br>lish-<br>ments. | Capital.             | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost<br>of<br>Materials. | Net<br>Value<br>of<br>Products. | Gross<br>Value<br>of<br>Products. |
|--------------------------------------------------|---------------------------|----------------------|-----------------|---------------------------|--------------------------|---------------------------------|-----------------------------------|
| 1920.                                            | No.                       | \$                   | No.             | \$                        | \$                       | \$                              | \$                                |
| <b>Totals</b> .....                              | <b>23,351</b>             | <b>3,371,940,653</b> | <b>609,586</b>  | <b>732,120,588</b>        | <b>2,085,271,649</b>     | <b>1,686,978,408</b>            | <b>3,772,250,057</b>              |
| Vegetable products.....                          | 4,219                     | 394,123,233          | 72,380          | 75,695,530                | 532,484,195              | 234,317,527                     | 766,801,722                       |
| Animal products.....                             | 4,823                     | 221,792,457          | 48,687          | 54,291,606                | 400,496,354              | 152,995,130                     | 553,491,484                       |
| Textile products.....                            | 1,304                     | 302,758,185          | 87,730          | 84,433,609                | 256,233,300              | 173,741,035                     | 429,974,335                       |
| Wood and paper.....                              | 7,867                     | 772,086,812          | 143,731         | 171,610,460               | 308,282,232              | 415,784,276                     | 724,066,508                       |
| Iron and its products.....                       | 1,690                     | 642,904,322          | 146,204         | 205,414,599               | 349,642,666              | 365,473,097                     | 715,115,763                       |
| Non-ferrous metals.....                          | 324                       | 109,382,033          | 23,162          | 27,895,343                | 48,434,120               | 52,847,178                      | 101,281,298                       |
| Non-metallic minerals.....                       | 1,176                     | 223,541,735          | 27,361          | 34,406,423                | 74,200,407               | 85,216,316                      | 159,416,723                       |
| Chemicals and allied products <sup>1</sup> ..... | 464                       | 122,123,730          | 17,653          | 22,193,421                | 62,644,608               | 65,183,212                      | 127,827,820                       |
| Miscellaneous industries.....                    | 665                       | 134,954,504          | 31,985          | 41,552,885                | 52,853,767               | 75,715,577                      | 128,569,344                       |
| Central electric stations.....                   | 819                       | 448,273,642          | 10,693          | 14,626,709                | —                        | 65,705,060                      | 65,705,060                        |
| <b>Totals</b> .....                              | <b>22,235</b>             | <b>3,190,026,358</b> | <b>456,076</b>  | <b>518,785,137</b>        | <b>1,366,893,655</b>     | <b>1,209,143,344</b>            | <b>2,576,037,029</b>              |
| Vegetable products.....                          | 3,946                     | 360,945,194          | 61,161          | 63,130,893                | 364,123,395              | 205,448,326                     | 569,571,721                       |
| Animal products.....                             | 5,051                     | 200,697,527          | 45,726          | 48,124,667                | 267,878,165              | 111,534,101                     | 379,412,266                       |
| Textile products.....                            | 1,627                     | 260,158,327          | 76,379          | 71,321,283                | 164,139,109              | 140,773,447                     | 304,912,556                       |
| Wood and paper.....                              | 7,152                     | 775,207,859          | 111,322         | 131,089,861               | 203,856,170              | 283,260,565                     | 487,116,735                       |
| Iron and its products.....                       | 1,138                     | 575,680,424          | 77,080          | 98,363,983                | 194,725,179              | 187,672,905                     | 382,398,084                       |
| Non-ferrous metals.....                          | 344                       | 104,079,490          | 17,936          | 22,692,784                | 31,439,989               | 41,149,894                      | 72,589,883                        |
| Non-metallic minerals.....                       | 1,075                     | 209,641,529          | 24,393          | 28,374,655                | 67,780,080               | 75,278,296                      | 143,058,376                       |
| Chemicals and allied products <sup>1</sup> ..... | 468                       | 118,382,642          | 12,571          | 16,192,457                | 43,108,870               | 45,495,135                      | 88,604,005                        |
| Miscellaneous industries.....                    | 577                       | 100,563,915          | 18,794          | 24,259,876                | 29,842,728               | 44,894,581                      | 74,737,309                        |
| Central electric stations.....                   | 857                       | 484,669,451          | 10,714          | 15,234,678                | —                        | 73,636,094                      | 73,636,094                        |
| <b>Totals</b> .....                              | <b>22,178</b>             | <b>3,538,813,460</b> | <b>508,503</b>  | <b>559,884,045</b>        | <b>1,438,409,651</b>     | <b>1,256,643,901</b>            | <b>2,695,053,582</b>              |
| Vegetable products.....                          | 4,414                     | 414,922,612          | 66,183          | 70,638,304                | 365,614,854              | 220,330,748                     | 585,945,602                       |
| Animal products.....                             | 4,816                     | 200,466,666          | 57,779          | 53,270,202                | 269,993,366              | 109,733,926                     | 379,777,321                       |
| Textile products.....                            | 1,781                     | 298,665,942          | 90,254          | 77,924,749                | 179,551,579              | 141,803,602                     | 321,355,181                       |
| Wood and paper.....                              | 6,906                     | 879,307,261          | 127,551         | 148,529,075               | 246,078,592              | 300,425,516                     | 546,504,108                       |
| Iron and its products.....                       | 1,003                     | 535,924,351          | 78,314          | 99,567,510                | 195,981,347              | 174,107,327                     | 370,088,674                       |
| Non-ferrous metals.....                          | 341                       | 114,354,971          | 21,670          | 26,118,839                | 42,255,294               | 50,968,079                      | 93,223,373                        |
| Non-metallic minerals.....                       | 1,095                     | 235,613,111          | 24,186          | 29,559,746                | 61,741,225               | 76,832,578                      | 138,573,803                       |
| Chemicals and allied products <sup>1</sup> ..... | 457                       | 126,495,685          | 13,796          | 17,074,529                | 54,311,913               | 53,905,324                      | 108,217,237                       |
| Miscellaneous industries.....                    | 414                       | 96,497,768           | 15,942          | 19,254,507                | 22,881,481               | 33,317,033                      | 56,198,514                        |
| Central electric stations.....                   | 951                       | 628,565,093          | 12,828          | 17,946,584                | —                        | 95,169,768                      | 95,169,768                        |
| <b>Totals</b> .....                              | <b>22,936</b>             | <b>4,337,631,558</b> | <b>618,933</b>  | <b>693,932,228</b>        | <b>1,758,789,334</b>     | <b>1,635,923,936</b>            | <b>3,394,713,270</b>              |
| Vegetable products.....                          | 4,793                     | 494,176,054          | 78,300          | 81,830,734                | 429,325,105              | 283,374,975                     | 712,700,080                       |
| Animal products.....                             | 4,692                     | 233,113,872          | 68,381          | 61,407,018                | 325,455,482              | 132,260,556                     | 457,716,038                       |
| Textile products.....                            | 1,802                     | 346,512,165          | 107,519         | 95,891,243                | 198,870,157              | 183,137,300                     | 382,007,457                       |
| Wood and paper.....                              | 6,811                     | 1,023,301,749        | 150,550         | 167,995,734               | 271,780,232              | 357,786,924                     | 629,567,156                       |
| Iron and its products.....                       | 1,148                     | 638,914,893          | 106,293         | 143,351,174               | 261,102,679              | 264,819,160                     | 525,921,839                       |
| Non-ferrous metals.....                          | 401                       | 208,957,166          | 33,443          | 44,154,695                | 87,612,666               | 112,757,295                     | 200,369,961                       |
| Non-metallic minerals.....                       | 1,184                     | 280,033,057          | 26,662          | 33,958,541                | 86,312,529               | 89,433,536                      | 175,746,065                       |
| Chemicals and allied products <sup>1</sup> ..... | 561                       | 134,618,839          | 14,559          | 18,656,851                | 63,630,588               | 63,854,084                      | 127,484,672                       |
| Miscellaneous industries.....                    | 447                       | 111,178,478          | 18,518          | 23,739,923                | 34,699,896               | 44,466,809                      | 79,166,705                        |
| Central electric stations.....                   | 1,097                     | 866,825,285          | 14,708          | 22,946,315                | —                        | 104,033,297                     | 104,033,297                       |

<sup>1</sup>These figures do not correspond with those published in the Annual Report on Chemicals and Allied Products which have been revised and are directly comparable with those given here for 1929-33. See headnote to Table 1, p. 443.

### 3.—Summary of Statistics of Manufactures, by Industrial Groups, for Representative Years, 1917-33—continued.

| Industrial Group.                | Estab-lish-ments. | Capital.             | Em-ployees.    | Salaries and Wages. | Cost of Materials.   | Net Value of Products. | Gross Value of Products. |
|----------------------------------|-------------------|----------------------|----------------|---------------------|----------------------|------------------------|--------------------------|
|                                  | No.               | \$                   | No.            | \$                  | \$                   | \$                     | \$                       |
| <b>1929.</b>                     |                   |                      |                |                     |                      |                        |                          |
| <b>Totals.....</b>               | <b>23,597</b>     | <b>5,083,014,754</b> | <b>694,434</b> | <b>813,049,842</b>  | <b>2,032,020,975</b> | <b>1,997,350,365</b>   | <b>4,029,371,340</b>     |
| Vegetable products.....          | 5,005             | 569,064,835          | 88,858         | 93,299,665          | 427,019,724          | 344,437,941            | 771,457,665              |
| Animal products.....             | 4,490             | 243,825,065          | 67,670         | 62,081,423          | 345,351,882          | 132,409,973            | 477,761,855              |
| Textile products.....            | 1,891             | 383,153,797          | 115,620        | 105,896,237         | 220,304,250          | 205,943,337            | 426,247,587              |
| Wood and paper.....              | 7,405             | 1,152,075,234        | 164,800        | 192,235,448         | 314,203,289          | 411,616,451            | 725,819,740              |
| Iron and its products.....       | 1,169             | 754,989,105          | 132,281        | 186,928,700         | 384,925,660          | 353,087,320            | 738,012,980              |
| Non-ferrous metals.....          | 408               | 298,721,106          | 39,867         | 54,501,806          | 124,900,632          | 158,645,034            | 283,545,666              |
| Non-metallic minerals.....       | 1,188             | 329,448,844          | 31,431         | 41,511,846          | 117,149,130          | 124,874,388            | 242,023,518              |
| Chemicals and allied products... | 554               | 165,886,912          | 16,694         | 22,639,449          | 55,184,337           | 83,360,884             | 138,545,221              |
| Miscellaneous industries.....    | 463               | 130,118,324          | 21,049         | 29,123,447          | 42,982,071           | 60,091,591             | 103,073,662              |
| Central electric stations.....   | 1,024             | 1,055,731,532        | 16,164         | 24,831,821          | -                    | 122,883,446            | 122,883,446              |
| <b>1930.</b>                     |                   |                      |                |                     |                      |                        |                          |
| <b>Totals.....</b>               | <b>24,020</b>     | <b>5,203,316,760</b> | <b>644,439</b> | <b>736,092,766</b>  | <b>1,666,983,902</b> | <b>1,761,986,726</b>   | <b>3,428,970,628</b>     |
| Vegetable products.....          | 5,041             | 569,403,769          | 84,182         | 85,259,243          | 357,510,340          | 314,513,326            | 672,023,666              |
| Animal products.....             | 4,341             | 233,334,792          | 57,657         | 55,564,398          | 285,328,411          | 132,212,467            | 417,540,878              |
| Textile products.....            | 1,886             | 368,567,643          | 109,576        | 97,903,096          | 184,563,865          | 177,250,868            | 361,814,733              |
| Wood and paper.....              | 7,816             | 1,221,357,252        | 156,724        | 174,406,889         | 268,249,293          | 368,350,618            | 636,599,911              |
| Iron and its products.....       | 1,196             | 757,797,256          | 119,987        | 165,429,608         | 281,713,862          | 288,032,111            | 569,745,973              |
| Non-ferrous metals.....          | 429               | 325,605,549          | 38,756         | 52,319,027          | 111,738,411          | 138,720,310            | 250,458,721              |
| Non-metallic minerals.....       | 1,234             | 336,018,922          | 29,868         | 39,241,165          | 107,206,674          | 109,606,153            | 216,812,827              |
| Chemicals and allied products... | 591               | 168,119,152          | 15,503         | 21,041,789          | 48,165,038           | 71,804,599             | 119,969,637              |
| Miscellaneous industries.....    | 452               | 84,912,229           | 14,328         | 17,640,108          | 22,508,008           | 35,458,129             | 57,966,137               |
| Central electric stations.....   | 1,034             | 1,138,200,016        | 17,858         | 27,287,443          | -                    | 126,038,145            | 126,038,145              |
| <b>1931.</b>                     |                   |                      |                |                     |                      |                        |                          |
| <b>Totals.....</b>               | <b>24,501</b>     | <b>4,961,312,408</b> | <b>557,426</b> | <b>624,545,561</b>  | <b>1,223,880,011</b> | <b>1,474,581,851</b>   | <b>2,698,461,862</b>     |
| Vegetable products.....          | 5,283             | 545,387,574          | 77,706         | 79,022,555          | 260,604,562          | 274,474,901            | 535,079,463              |
| Animal products.....             | 4,280             | 217,441,415          | 51,297         | 51,270,503          | 214,743,508          | 106,059,948            | 320,803,456              |
| Textile products.....            | 1,955             | 352,344,073          | 105,473        | 92,504,088          | 153,191,375          | 163,967,295            | 317,158,670              |
| Wood and paper.....              | 7,767             | 1,053,064,435        | 121,672        | 140,349,106         | 192,379,915          | 291,858,015            | 484,237,930              |
| Iron and its products.....       | 1,243             | 676,270,362          | 96,927         | 120,759,931         | 170,754,686          | 203,970,382            | 374,725,068              |
| Non-ferrous metals.....          | 455               | 318,395,983          | 34,414         | 46,111,373          | 95,342,788           | 116,519,624            | 211,862,412              |
| Non-metallic minerals.....       | 1,272             | 328,873,782          | 24,895         | 32,219,282          | 78,945,766           | 102,486,140            | 181,431,906              |
| Chemicals and allied products... | 621               | 163,863,072          | 15,207         | 20,867,948          | 40,756,550           | 64,745,355             | 105,501,905              |
| Miscellaneous industries.....    | 464               | 75,682,761           | 12,821         | 15,133,859          | 17,160,861           | 28,189,461             | 45,350,322               |
| Central electric stations.....   | 1,011             | 1,229,988,951        | 17,014         | 26,306,956          | -                    | 122,310,730            | 122,310,730              |
| <b>1932.</b>                     |                   |                      |                |                     |                      |                        |                          |
| <b>Totals.....</b>               | <b>24,544</b>     | <b>4,741,255,610</b> | <b>495,398</b> | <b>505,883,323</b>  | <b>955,968,683</b>   | <b>1,170,235,872</b>   | <b>2,126,194,555</b>     |
| Vegetable products.....          | 5,244             | 516,356,149          | 72,390         | 70,047,452          | 225,135,488          | 211,600,763            | 436,736,251              |
| Animal products.....             | 4,413             | 193,015,462          | 49,953         | 45,979,793          | 167,170,394          | 95,623,235             | 262,793,629              |
| Textile products.....            | 2,002             | 321,593,062          | 102,116        | 82,817,944          | 129,468,738          | 144,942,998            | 274,411,736              |
| Wood and paper.....              | 7,844             | 954,639,232          | 107,834        | 112,372,202         | 142,349,790          | 227,251,810            | 369,601,600              |
| Iron and its products.....       | 1,233             | 608,619,518          | 74,214         | 82,339,437          | 102,289,749          | 123,542,436            | 225,832,185              |
| Non-ferrous metals.....          | 452               | 272,045,441          | 26,704         | 32,755,103          | 67,934,940           | 84,176,377             | 152,111,317              |
| Non-metallic minerals.....       | 1,182             | 312,569,679          | 20,342         | 24,479,677          | 74,358,159           | 73,407,459             | 147,765,618              |
| Chemicals and allied products... | 662               | 160,929,954          | 15,295         | 20,008,108          | 35,276,531           | 60,002,845             | 95,279,376               |
| Miscellaneous industries.....    | 479               | 65,600,126           | 11,155         | 11,822,441          | 11,984,894           | 21,257,716             | 33,242,610               |
| Central electric stations.....   | 1,033             | 1,335,886,987        | 15,395         | 23,261,166          | -                    | 128,420,233            | 128,420,233              |



### 3.—Summary of Statistics of Manufactures, by Industrial Groups, for Representative Years, 1917-33—concluded.

| Industrial Group.                    | Estab-<br>lish-<br>ments. | Capital.      | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost<br>of<br>Materials. | Net<br>Value of<br>Products. | Gross<br>Value of<br>Products. |
|--------------------------------------|---------------------------|---------------|-----------------|---------------------------|--------------------------|------------------------------|--------------------------------|
|                                      | No.                       | \$            | No.             | \$                        | \$                       | \$                           | \$                             |
| <b>Totals</b> ..... 1933.            | 25,232                    | 4,689,373,704 | 493,903         | 465,562,090               | 969,188,574              | 1,117,659,273                | 2,086,847,847                  |
| Vegetable products.....              | 5,542                     | 509,533,005   | 73,095          | 66,137,487                | 224,243,088              | 197,606,784                  | 421,849,872                    |
| Animal products.....                 | 4,496                     | 201,993,642   | 53,111          | 46,453,188                | 179,429,948              | 91,638,262                   | 271,068,210                    |
| Textile products.....                | 2,151                     | 322,312,247   | 106,235         | 80,695,813                | 144,584,507              | 150,130,741                  | 294,715,248                    |
| Wood and paper.....                  | 7,917                     | 893,809,680   | 105,471         | 102,500,377               | 134,879,700              | 207,175,377                  | 342,155,077                    |
| Iron and its pro-<br>ducts.....      | 1,291                     | 580,760,379   | 70,947          | 69,482,730                | 97,705,853               | 114,256,055                  | 211,961,908                    |
| Non-ferrous metals.....              | 478                       | 266,266,443   | 25,273          | 28,099,026                | 71,990,608               | 92,774,996                   | 164,765,604                    |
| Non-metallic min-<br>erals.....      | 1,144                     | 307,996,274   | 19,296          | 21,680,263                | 71,713,986               | 70,077,465                   | 141,791,451                    |
| Chemicals and<br>allied products.... | 696                       | 153,900,930   | 15,397          | 18,738,629                | 34,271,854               | 58,548,907                   | 92,820,761                     |
| Miscellaneous in-<br>dustries.....   | 476                       | 66,769,049    | 10,361          | 10,342,700                | 10,269,030               | 17,918,605                   | 28,187,635                     |
| Central electric sta-<br>tions.....  | 1,041                     | 1,386,532,055 | 14,717          | 21,431,877                | -                        | 117,532,081                  | 117,532,081                    |

#### Subsection 2.—Summary Statistics of Manufacturing Production.

**Summary Statistics of Manufactures.**—In Table 4 will be found an analysis of the most important statistics of manufacture for the period 1917 to 1933, here brought together in order that the tendencies in Canadian manufacturing industries may be traced as clearly as possible through this latest period of their development. In analysing statistics of production and materials used, it should be borne in mind that due to the inflation of values during the war and immediate post-war periods and the drop in prices of commodities during the depressions of 1921 and 1930 the figures for these years become largely incomparable. One very important figure, however, where the trend of development proceeds clearly and uninterruptedly, is concerned with the use of power. In the analysis here given the aim is to show the position of power as a factor in general manufacturing production. Therefore, the power installation of central electric stations has been excluded. The total horse-power employed increased from 1,664,578 in 1917 to 4,157,420 in 1932 or an increase of 150 p.c. in 15 years. In the same period, the number of horse-power used per establishment increased from 75 to 177 and the number of horse-power per wage-earner from 3.04 to 10.62, indicating the rapidly increasing utilization of power in manufacturing production. The figures for 1933 show a small decrease from 1932. The increase from \$118,056 to \$193,174 in average capital per establishment between 1917 and 1932, and the decrease from 27.2 to 20.2 in the average number of employees are very significant figures. Another interesting comparison is the progressive decrease in the value added by manufacture per employee and the average salaries and wages paid since 1929. Between 1917 and 1929 the value added by manufacture per employee increased from \$2,143 to \$2,877 and then declined in 1933 to \$2,263, while average salaries and wages increased from \$819 in 1917 to \$1,171 in 1929 with a decline to \$943 in 1933. Compared with 1917, the figures for average salaries and wages in 1933 represent an increase of 15 p.c. while the increase in the value added by manufacture per employee was only 5.6 p.c. and wholesale prices of commodities declined 41.3 p.c. in the same period.



4.—Summary Statistics of Manufactures for Representative Years, 1917-33.

| Item.                                                            | 1917.         | 1920.         | 1921.         | 1924.         | 1929. <sup>1</sup> | 1931.         | 1932.         | 1933.         |
|------------------------------------------------------------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|
| Establishments.....                                              | 22,838        | 23,351        | 22,225        | 22,178        | 23,597             | 24,501        | 24,544        | 25,232        |
| Capital.....                                                     | 2,696,154,030 | 3,371,940,683 | 3,190,026,358 | 3,538,813,460 | 5,083,014,754      | 4,961,312,408 | 4,741,255,610 | 4,689,373,704 |
| Average capital per establishment.....                           | 118,096       | 144,402       | 143,469       | 150,563       | 215,400            | 202,464       | 193,174       | 185,850       |
| Average capital per employee.....                                | 4,337         | 5,521         | 6,984         | 6,959         | 7,320              | 8,900         | 9,571         | 9,494         |
| Average capital per wage-earner.....                             | 4,816         | 6,404         | 8,338         | 8,186         | 8,503              | 10,841        | 11,843        | 11,741        |
| Total employees.....                                             | 621,694       | 609,580       | 456,076       | 508,503       | 694,434            | 557,426       | 495,938       | 493,903       |
| Average number of employees per establishment.....               | 27.2          | 26.1          | 20.5          | 22.9          | 29.4               | 22.8          | 20.2          | 19.6          |
| Total salaries and wages.....                                    | 509,382,027   | 732,120,583   | 518,785,137   | 559,894,045   | 813,049,842        | 694,545,501   | 505,883,323   | 465,562,090   |
| Average salaries and wages per establishment.....                | 22,304        | 31,333        | 23,332        | 25,245        | 34,456             | 25,400        | 20,611        | 18,451        |
| Average salaries and wages per employee.....                     | 1,201         | 1,201         | 1,138         | 1,101         | 1,171              | 1,120         | 1,021         | 943           |
| Employees on salaries.....                                       | 68,726        | 83,015        | 74,873        | 76,230        | 96,607             | 99,708        | 95,070        | 94,494        |
| Average salaried employees per establishment.....                | 3.0           | 3.6           | 3.4           | 3.4           | 4.1                | 4.1           | 3.9           | 3.7           |
| Salaries.....                                                    | 89,287,158    | 148,297,360   | 130,874,992   | 139,614,639   | 188,747,672        | 186,810,794   | 164,695,005   | 151,800,323   |
| Average salary.....                                              | 1,299         | 1,786         | 1,858         | 1,831         | 1,954              | 1,872         | 1,732         | 1,607         |
| Employees on wages.....                                          | 552,968       | 526,571       | 381,203       | 432,273       | 597,827            | 457,628       | 400,328       | 399,409       |
| Average number of wage-earners per establishment.....            | 24.2          | 22.6          | 17.1          | 19.5          | 25.3               | 18.7          | 16.3          | 15.8          |
| Wages.....                                                       | 420,094,869   | 583,835,225   | 381,910,145   | 420,269,406   | 624,302,170        | 437,734,767   | 341,187,718   | 313,701,737   |
| Average wage.....                                                | 1,009         | 1,109         | 1,002         | 1,045         | 1,045              | 957           | 852           | 785           |
| Cost of materials.....                                           | 1,541,087,416 | 2,085,271,649 | 1,366,893,685 | 1,438,409,681 | 2,032,020,375      | 1,223,880,011 | 955,868,683   | 969,188,574   |
| Average cost of materials per establishment.....                 | 67,479        | 89,301        | 61,475        | 64,858        | 86,114             | 49,952        | 38,949        | 38,411        |
| Average cost of materials per employee.....                      | 2,479         | 3,421         | 2,997         | 2,829         | 2,026              | 2,105         | 1,930         | 1,962         |
| Value added in manufacture.....                                  | 1,332,180,767 | 1,686,978,408 | 1,209,143,344 | 1,256,643,901 | 1,997,350,365      | 1,474,581,851 | 1,170,225,872 | 1,117,659,273 |
| Average value added per establishment.....                       | 58,332        | 72,245        | 54,380        | 56,062        | 84,645             | 60,185        | 47,879        | 44,295        |
| Average value added per employee.....                            | 2,143         | 2,767         | 2,651         | 2,473         | 2,577              | 2,645         | 2,362         | 2,263         |
| Gross value of products.....                                     | 2,873,268,183 | 3,772,250,057 | 2,576,037,029 | 2,695,053,582 | 4,029,371,340      | 2,698,461,862 | 2,126,194,555 | 2,086,847,847 |
| Average gross value of product per establishment.....            | 125,811       | 161,546       | 115,855       | 121,519       | 170,758            | 110,137       | 86,628        | 82,706        |
| Average gross value of product per employee.....                 | 4,622         | 6,188         | 5,648         | 5,300         | 5,782              | 4,841         | 4,292         | 4,225         |
| Power employed <sup>2</sup> .....                                | 1,064,578     | 2,068,745     | 1,781,770     | 2,538,585     | 3,867,979          | 4,114,677     | 4,157,420     | 4,147,881     |
| Average number of horse-power per establishment.....             | 75            | 92            | 83            | 120           | 171                | 175           | 177           | 172           |
| Average number of horse-power per wage-earner <sup>3</sup> ..... | 3.04          | 3.97          | 4.75          | 5.97          | 6.58               | 8.99          | 10.62         | 10.61         |

<sup>1</sup>A change in the method of computing the number of wage-earners in the years 1925 to 1930 inclusive increased the number somewhat over that which the method otherwise used would have given. There was therefore a proportionate reduction in the averages for 1925-30 per employee and wage-earner, as compared with what these averages would have been under the other method. In 1931, however, the method in force prior to 1925 was re-adopted. The figures for 1931 and later years are therefore comparable with those for 1924 and earlier years.

<sup>2</sup>The figures for power in this table represent the installation in manufactures exclusive of central electric stations, which are also excluded from the number of establishments and of wage-earners in working out the averages.

**Value of Products.**—The gross value of manufactured products in 1932 was reported as \$2,126,194,555; the cost of materials was \$955,968,683, leaving \$1,170,225,872 as the value added by manufacture. As the finished products of one branch of manufacture are constantly used as materials in other branches in the ascending scale of modern industry, it follows that they are counted over and over again, swelling in this manner the total gross value of products. The total value of manufactured products, strictly defined, would include: (1) the value of all raw materials obtained from the extractive and primary production industries which have entered into the manufacturing output; and (2) the entire value added to these raw materials by manufacturing processes from the time they first entered any factory up to the close of the census year. This total value would be very much greater than the \$1,170,225,872 shown as having been added by manufacture, but not so great as the \$2,126,194,555 shown as the gross value of production. (The decline of \$572,000,000 in gross value of products in 1932 was partly accounted for by a drop of \$268,000,000 in the cost of materials.)

**Volume of Manufacturing Production in Recent Years.\***—An investigation of the greatest importance, especially in a period when values are rapidly changing, is that of the volume of manufacturing production as distinguished from its value. Since real income is ultimately measured in goods and services, the growth of the volume of manufactures therefore becomes a matter of great importance. The important thing to know is whether consumers are getting more goods and services, not whether they are expending more dollars and cents.

The ever-increasing use of factory products is one of the most significant features of modern life. The process has continued until at the present time fresh fruits and vegetables are about the only articles which reach the consumer without, in some way, being first processed at a factory. Fresh milk is pasteurized and bottled in a dairy plant, fresh fish and meats are dressed principally in packing plants, and the home preserving of fruits and vegetables is being superseded by more efficient processes in the canning factory. Thus even the foods we eat, as well as the clothing we wear, our household conveniences and our instruments of production and transportation, are increasingly products of factories. The growing volume of factory production, therefore, measures approximately the total flow of the economic goods upon which the rising standards of modern life so vitally depend.

The statistics of manufactures afford a variety of measures of the growth of factory production. The number of wage-earners, capital invested, value of production and value added by manufacture all show to some extent the direction and volume of growth. The value of production and that added by manufacture, being reported in dollars, are influenced by price changes as well as by the quantity of goods produced and, as already explained, are rendered misleading by the violent price changes of the past fifteen years. The capital invested is also affected by changing money values, while the relation between capital invested and value of goods produced varies greatly as between one industry and another. Neither is the number of wage-earners employed likely to be a representative measure of changes in the volume of production. The progressively increasing use of machinery and the rise in the power installed per wage-earner (see Table 4) tend to increase the employee's output. Thus while the reported wage-earners in 1931 had increased

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\*For a much more detailed and comprehensive treatment of this subject see the study "The Quantity of Manufacturing Production in Canada, 1923-29" by A. Cohen, B. Com., Acting Chief, General Manufactures Branch, Dominion Bureau of Statistics.

2.4 p.c. over the number in 1923, the volume of production is estimated to have increased by 18.3 p.c. in the same period.

The central electric stations were excluded from general manufactures in making the index; since this industry is in a class by itself in the peculiar function of its product, and is also unique in the magnitude of its capital investment and the smallness of its labour force in proportion to its net production. The index is based on the quantities of manufactured products reported and includes 71.1 p.c. of the total value of the production in 1926, exclusive of central electric stations. It is weighted according to the values added by manufacture in 1926. A complete description of the manner in which the index is constructed will be found in the publication referred to in the footnote on p. 450.

The physical volume of manufacturing production, exclusive of central electric stations, increased 50.2 p.c. from 1923 to 1929. When it is recalled that the population of Canada is estimated to have increased only 11.3 p.c. during the same period, the growth of manufacturing production is indeed remarkable. Of this advance, the part resulting from an increase in the domestic demand due to growth of population would be about 11.3 p.c. Exports of partly and fully manufactured goods increased from \$591,830,000 in the fiscal year ended Mar. 31, 1924, to \$690,904,000 in the fiscal year 1930, the increase in exports representing about 3.6 p.c. of the 1923 production. The remainder of the increase in production by 1929, or a margin equal to roughly 35 p.c. of the volume of manufactures of 1923, was therefore apparently absorbed by the rise in the standard of living of the population of Canada, and by the increase of that population.

The index of the volume of production dropped from 150.2 in 1929 to 100.1 in 1932, a decrease of 33.4 p.c. This decrease is very significant when compared with the decrease in the net value of production and the number of wage-earners employed.

Owing to declines in the values of finished products (due, in a large degree, to the drastic declines in the values of raw materials) and to the decrease in the volume of production, the net value of production dropped from \$1,997,350,365 in 1929 to \$1,170,225,872 in 1932, a decrease of 41.4 p.c., while the number of wage-earners dropped from 597,827 to 400,328, a decrease of 33 p.c. It will be noted that the percentage decrease in the volume of production between 1929 and 1932, *viz.*, 33.4, was 0.4 greater than the percentage decrease in the number of wage-earners in the same period. This bears out the observations made in the special study on the volume of production that records of the number of wage-earners may be regarded as more likely to understate than to overstate the changes in the volume of production. As stated previously, the tendency is towards increasing production per wage-earner through greater efficiency and increased use of machinery and labour-saving devices. Also, in times of depression, many establishments follow the practice of keeping the wage-earners on the pay-roll on a part-time basis rather than laying some of them off and employing the rest on full time, while in periods of increased industrial activity the additional output required is secured through overtime work rather than by increasing the number of wage-earners. The net result is to confine fluctuations in the number of wage-earners within narrower limits than that of the physical volume of production. All things considered, however, the average number of wage-earners is materially influenced by the fluctuations in industrial activity. The decrease in the volume of production as compared with the decrease in the number of wage-earners since 1929 is really much greater than the 0.4 p.c. mentioned



above. This fact, however, is obscured by the following changes in procedure: First, the large decrease in the number of wage-earners in 1931 is not entirely due to the decline in manufacturing production. The decrease is in part due to the change in method of computing the average annual employment. Between 1925 and 1930 the average was obtained by summing the averages of individual plants, based on the number of months in actual operation and not by dividing by 12 the sum of the monthly employment figures. For example, if a plant operated only during three months of the year with an employment of 100 persons the first month, 125 the second month and 75 the third month, its average annual employment was taken as  $100 (300 \div 3)$ ; the same as that of another plant which operated the whole year with an average employment of 100 persons per month. In 1931, however, a change was made to the old method whereby the aggregate of the monthly figures is divided by 12. As a result of this change, the average annual employment in such seasonal industries as fruit and vegetable canning and sawmilling was, therefore, considerably lower than formerly without the number of wage-earners being correspondingly smaller. Secondly, prior to 1931, owners working as ordinary wage-earners, such as small bakers, operators of sawmills and grist-mills, etc., reported themselves as wage-earners. In 1931, however, all such owners were required to report themselves as salaried employees. By making allowances for the above changes it would be found that in 1931 also the number of wage-earners declined less than the volume of production.

As may be seen from Table 5, all groups in the component material classification reported declines in the volume of production. As compared with 1929, the iron and steel group in 1932 led with a decrease of 58.8 p.c. This was followed by non-metallic mineral products with a decrease of 41.8 p.c., miscellaneous industries 39.9 p.c., wood and paper products 31.6 p.c., non-ferrous metals 27.6 p.c., vegetable products 24.0 p.c., chemicals and allied products 22.2 p.c., textiles and textile products 13.3 p.c. and animal products 12.8 p.c.

When the changes in the volume of production are analysed on a purpose classification basis, some interesting facts are revealed. As compared with 1929, the food group showed a decrease of 9.9 p.c. while production of clothing decreased 18.8 p.c. The output of vehicles and vessels, which is largely made up of the automobile and rubber-tire industries, recorded a decrease of 60.2 p.c.; this is the greatest decrease of any group. Producers' materials and industrial equipment declined 39.9 p.c. and 41.6 p.c. respectively, owing to the general decline in industrial activity. House furnishings dropped 34.7 p.c., personal utilities 30.7 p.c., drink and tobacco 27.5 p.c. and books and stationery 2.9 p.c. The decrease in the personal utilities group, however, is misleading. The production of the musical instruments industry, which is included in this group, has been decreasing steadily during the past few years; the output of pianos, phonographs and phonograph records is becoming smaller and smaller. The main product of the musical instruments industry, namely, the radio, is now produced in the electrical apparatus industry. This industry, however, is classified in the industrial equipment group, as by far the largest part of its output consists of industrial equipment.



### 5.—Indexes of the Volume of Manufacturing Production, According to Component Material and Purpose Classifications, 1924-32.

(1923=100.)

| Group.                                         | 1924.       | 1925.        | 1926.        | 1927.        | 1928.        | 1929.        | 1930.        | 1931.        | 1932.        |
|------------------------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>COMPONENT MATERIAL CLASSIFICATION—</b>      |             |              |              |              |              |              |              |              |              |
| Vegetable products.....                        | 109.2       | 120.8        | 127.7        | 137.5        | 151.1        | 155.3        | 146.6        | 133.0        | 118.1        |
| Animal products.....                           | 107.1       | 113.0        | 122.9        | 120.0        | 123.8        | 117.2        | 113.6        | 103.2        | 102.2        |
| Textiles and textile products.....             | 96.6        | 103.4        | 117.8        | 126.5        | 135.3        | 133.8        | 124.4        | 121.6        | 116.0        |
| Wood and paper products.....                   | 98.1        | 106.0        | 119.9        | 129.1        | 142.0        | 152.9        | 141.5        | 117.9        | 104.6        |
| Iron and its products.....                     | 80.5        | 95.1         | 121.7        | 125.2        | 138.1        | 157.8        | 126.9        | 96.2         | 65.0         |
| Non-ferrous metals.....                        | 103.5       | 122.8        | 137.2        | 158.3        | 176.1        | 190.3        | 179.7        | 171.1        | 137.7        |
| Non-metallic minerals.....                     | 95.8        | 98.3         | 112.5        | 122.5        | 138.9        | 163.1        | 149.5        | 130.4        | 94.9         |
| Chemicals and allied products.....             | 102.3       | 109.5        | 119.0        | 127.0        | 139.6        | 143.3        | 126.5        | 116.9        | 111.5        |
| Miscellaneous industries.....                  | 108.0       | 106.0        | 124.8        | 138.0        | 136.5        | 137.3        | 116.6        | 101.0        | 82.5         |
| <b>Totals, All Industries<sup>1</sup>.....</b> | <b>98.2</b> | <b>107.5</b> | <b>122.2</b> | <b>130.2</b> | <b>141.9</b> | <b>150.2</b> | <b>136.2</b> | <b>118.3</b> | <b>100.1</b> |
| <b>PURPOSE CLASSIFICATION—</b>                 |             |              |              |              |              |              |              |              |              |
| Food.....                                      | 107.3       | 114.0        | 118.1        | 115.5        | 122.4        | 121.4        | 123.5        | 113.2        | 109.4        |
| Clothing.....                                  | 100.1       | 107.5        | 120.6        | 128.6        | 138.7        | 138.5        | 127.9        | 122.9        | 112.4        |
| Drink and tobacco.....                         | 114.6       | 121.8        | 131.6        | 151.3        | 171.6        | 184.9        | 172.2        | 155.7        | 134.0        |
| Personal utilities.....                        | 95.4        | 102.2        | 117.1        | 124.5        | 125.2        | 119.3        | 98.8         | 91.9         | 82.7         |
| House furnishings.....                         | 111.8       | 109.1        | 126.7        | 153.1        | 158.4        | 174.5        | 159.2        | 138.4        | 114.0        |
| Books and stationery.....                      | 83.4        | 97.6         | 107.4        | 119.3        | 132.0        | 141.2        | 140.3        | 133.7        | 137.1        |
| Vehicles and vessels.....                      | 87.1        | 107.7        | 140.1        | 148.9        | 158.5        | 184.3        | 149.4        | 106.9        | 73.4         |
| Producers' materials.....                      | 94.9        | 103.8        | 117.8        | 125.0        | 138.0        | 146.9        | 130.0        | 110.2        | 88.3         |
| Industrial equipment.....                      | 99.7        | 108.3        | 131.1        | 142.6        | 157.9        | 169.7        | 150.7        | 127.4        | 99.1         |
| Miscellaneous.....                             | 104.8       | 108.4        | 117.6        | 124.1        | 133.4        | 147.1        | 123.4        | 125.4        | 116.9        |

<sup>1</sup>Exclusive of central electric stations.

This new index of the volume of manufacturing production has superseded for 1923 and later years the index shown in Table 4 of this chapter in the 1931 and earlier Year Books. The former index, which made no pretence to the reliability of the new one, was made by dividing the gross value of manufactures by the index number of the prices of manufactured goods. The central electric stations were included in the former index, while they are excluded from the new one. However, the former index covered the period 1917 to 1923 not covered in the new one and, since this earlier period was one of wide fluctuations in money values, the following index numbers are given for the whole period since 1917, using the earlier method, but excluding central electric stations, for the years 1917 to 1923, and the new index, transposed to the 1917 base, from 1923 to 1932.

#### INDEXES OF THE VOLUME OF MANUFACTURING PRODUCTION, 1917-32.

(1917=100.)

|           |       |           |       |           |       |           |       |
|-----------|-------|-----------|-------|-----------|-------|-----------|-------|
| 1917..... | 100.0 | 1921..... | 86.1  | 1925..... | 112.7 | 1929..... | 157.5 |
| 1918..... | 102.0 | 1922..... | 96.0  | 1926..... | 128.1 | 1930..... | 142.8 |
| 1919..... | 98.1  | 1923..... | 104.8 | 1927..... | 136.5 | 1931..... | 124.1 |
| 1920..... | 95.0  | 1924..... | 102.9 | 1928..... | 148.8 | 1932..... | 105.0 |

**Consumption of Manufactured Products.**—One of the beneficial results of placing the classification of external trade and of production upon a common basis is exhibited in Table 6, where the value of commodities made available for consumption in Canada is derived from the statistics of the two important fields. For example, the value of all manufactured commodities made available in a period

approximately corresponding to 1932 was \$2,138,700,245, a figure obtained by adding to the value of products manufactured in 1932 the value of the imports of manufactured and partly manufactured goods during the fiscal year ended Mar. 31, 1933, and deducting the value of the corresponding exports for the same period. In this table more accurate statistics could be presented were it possible to exclude from the gross value of manufactured products the duplications involved when the products of one manufacturing establishment become the materials worked upon in another. Vegetable, textile, wood and paper, iron and animal products were, in that order, the leading groups in the value of finished goods made available for consumption. The large amount of manufactured vegetable products made available for consumption was due to the large domestic production, as the exports and imports were about equal, while manufactures of textiles and iron and steel products, in addition to a large production, showed an excess of imports over exports of \$40,000,000 for textiles, and \$40,000,000 for iron and steel products. Wood and paper, animal and non-ferrous metal products were manufactured in Canada in greater quantities than required for home consumption, providing export balances in these groups of commodities.

#### 6.—Consumption of Manufactured Products, by Groups, 1932, with Totals for 1922-32.

NOTE.—Statistics of manufacturing production are for the calendar year. Imports and exports of manufactured and partly manufactured goods are for the fiscal years ended Mar. 31 of the following years.

| Group of Industries.               | Value of<br>Products<br>Manufactured. | Manufactured and Partly<br>Manufactured Goods. |                                  | Value of<br>Manufactured<br>Products<br>Available<br>for<br>Consumption. <sup>1</sup> |
|------------------------------------|---------------------------------------|------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------|
|                                    |                                       | Value of<br>Net<br>Imports.                    | Value of<br>Domestic<br>Exports. |                                                                                       |
|                                    | \$                                    | \$                                             | \$                               | \$                                                                                    |
| Vegetable products.....            | 436,736,251                           | 53,953,170                                     | 44,756,484                       | 445,932,937                                                                           |
| Animal products.....               | 262,793,629                           | 9,026,553                                      | 30,754,793                       | 241,065,389                                                                           |
| Textiles and textile products..... | 274,411,736                           | 44,651,462                                     | 4,356,481                        | 314,706,717                                                                           |
| Wood and paper products.....       | 369,601,600                           | 19,765,502                                     | 113,347,907                      | 276,019,195                                                                           |
| Iron and its products.....         | 225,832,185                           | 57,261,798                                     | 17,275,395                       | 265,818,588                                                                           |
| Non-ferrous metal products.....    | 152,111,317                           | 15,660,169                                     | 33,915,699                       | 133,855,787                                                                           |
| Non-metallic mineral products..... | 127,765,618                           | 27,600,821                                     | 3,673,064                        | 171,693,375                                                                           |
| Chemicals and allied products..... | 95,279,376                            | 25,184,890                                     | 11,099,814                       | 109,364,452                                                                           |
| Miscellaneous industries.....      | 33,242,610                            | 28,751,392                                     | 8,585,977                        | 53,468,025                                                                            |
| Central electric stations.....     | 128,420,233                           | 73,102                                         | 1,657,555                        | 126,835,780                                                                           |
| <b>Totals, 1932.....</b>           | <b>2,126,194,555</b>                  | <b>281,928,859</b>                             | <b>269,423,169</b>               | <b>2,138,700,245</b>                                                                  |
| <b>Totals, 1931.....</b>           | <b>2,698,461,862</b>                  | <b>423,610,230</b>                             | <b>358,166,698</b>               | <b>2,771,905,484</b>                                                                  |
| <b>Totals, 1930.....</b>           | <b>3,428,870,628</b>                  | <b>675,919,565</b>                             | <b>494,561,750</b>               | <b>3,610,328,443</b>                                                                  |
| <b>Totals, 1929.....</b>           | <b>4,029,371,340</b>                  | <b>939,226,894</b>                             | <b>690,904,225</b>               | <b>4,277,691,009</b>                                                                  |
| <b>Totals, 1928.....</b>           | <b>3,738,484,728</b>                  | <b>954,468,018</b>                             | <b>702,314,797</b>               | <b>3,990,637,949</b>                                                                  |
| <b>Totals, 1927.....</b>           | <b>3,394,713,270</b>                  | <b>825,147,919</b>                             | <b>645,178,000</b>               | <b>3,571,683,189</b>                                                                  |
| <b>Totals, 1926.....</b>           | <b>3,221,269,231</b>                  | <b>767,022,098</b>                             | <b>673,709,266</b>               | <b>3,314,581,973</b>                                                                  |
| <b>Totals, 1925.....</b>           | <b>2,948,545,315</b>                  | <b>671,462,940</b>                             | <b>695,325,245</b>               | <b>2,924,683,010</b>                                                                  |
| <b>Totals, 1924.....</b>           | <b>2,695,053,582</b>                  | <b>576,031,243</b>                             | <b>591,598,479</b>               | <b>2,679,486,346</b>                                                                  |
| <b>Totals, 1923.....</b>           | <b>2,781,165,514</b>                  | <b>639,343,645</b>                             | <b>591,829,306</b>               | <b>2,828,679,853</b>                                                                  |
| <b>Totals, 1922.....</b>           | <b>2,482,209,130</b>                  | <b>574,551,323</b>                             | <b>515,173,415</b>               | <b>2,541,587,038</b>                                                                  |

<sup>1</sup>For 1928 to 1932 foreign products imported and later re-exported are eliminated from the value of products available for consumption, but for 1927 and previous years this was impossible since foreign exports for these years had never been analyzed as raw materials or partly or fully manufactured goods. Therefore in this table the value of manufactured products made available for consumption, for the years 1922 to 1927 inclusive, is an overstatement by the amount of the foreign exports of manufactured goods in each year, probably varying from about \$11,000,000 in 1922 to \$18,000,000 in 1927.

## Section 2.—Production of Industrial Groups and Individual Industries.

One of the factors in the progress of Canada is the possession of many natural resources favourable to industrial growth. It is upon the country's agricultural resources, forests, minerals and wild life that Canada's industries are mainly based. The sea and lake fisheries also make an important contribution of raw materials to the manufacturing industries of the Dominion. Nevertheless, the industrial development of Canada was a matter of small beginnings and gradual growth over a period of many years, and the comparatively small home market, restricted at the present time to a population of about ten millions, a large part of it in scattered agricultural areas, is still one of the difficulties of the situation. Yet Canada is now not merely the second largest manufacturing country in the British Empire; her exports to the other Dominions consist largely of manufactured goods and her exports of manufactured and partly manufactured goods to the United States exceed the exports of raw materials. The rate at which this movement is to continue will depend almost entirely upon growth within the Dominion—upon the further development of the many-sided physical assets of the country.

### Subsection 1.—Manufactures Grouped by Chief Component Materials.

A classification based on the chief component materials in the various products of each manufacturing establishment was applied for the first time in the compilation of the returns for 1920. The number of groups was reduced from fifteen to nine to correspond with the external trade classification and the classes of industry were somewhat altered to conform with recent industrial developments. Subsequently the central electric stations industry was taken out of the miscellaneous class and now forms a class by itself.

**Vegetable Products.**—Though first in value of gross production in 1932 this group ranked only fourth in the number of people employed and salaries and wages paid. With the exception of rubber, coffee and spices, sugar factories, and rice mills, the industries of this group are dependent mainly upon domestic farm products for their raw materials. They produced in 1932, 20.6 p.c. of the total manufacturing production and employed 14.6 p.c. of all persons engaged in manufacturing industries.

The flour-milling industry is the leading industry of the group from the point of view of gross value of products. This industry, which has existed to meet the domestic needs for more than 300 years, is one of the Dominion's oldest manufactures, but it is only within recent times that its progress has become spectacular. The War and the demand it created gave a great impetus to this trade. The 394 flour mills, many of them of the most modern type and highest efficiency, have a capacity far in excess of Canada's demands. During 1928, productive capacity reached about 121,000 barrels per day. Since then, the industry has been adversely affected by the difficulties which beset the Canadian grain trade and the great decline in the prices of grains. Exports of wheat flour declined from 10,737,266 barrels in 1928 to 5,131,781 barrels in 1932, but in spite of the decrease, Canada continues to be one of the leading exporters of wheat flour.

The rubber industry is another industry of importance in the industrial life of the country. Canada now ranks among the leading countries of the world as a manufacturer of rubber goods. In 1930 she was the fifth largest importer of raw rubber in the world, ranking after the United States, the United Kingdom, France and Germany. In 1932, however, Japan and Russia also were ahead of Canada in the imports of raw rubber. Existing plants in 1932 numbered 47 and represented a capital investment of \$65,794,903, including equipment and working capital. These plants furnished employment to 10,325 persons who received \$9,340,911 in salaries and wages and produced goods valued at \$40,746,910. They also used raw materials to the value of \$11,906,696, mainly imported from tropical countries. The rubber industry also forms an adjunct of considerable importance to the cotton yarn and cloth industry, which supplies tire fabrics. The industry, besides supplying the domestic market, contributes materially to the export trade of Canada. The products find their way to the remotest parts of the world, as a glance at the list of countries to which rubber tires are shipped, would show. Spain, Peru, Dutch East Indies, Portuguese Africa and China are but a few of the far-flung countries into which Canadian tires find their way.

The fruit and vegetable preparations industry, which includes canned fruits, canned vegetables, pickles, vinegar, jams, etc., comprises another large division of this group. In 1932, this industry reported an output valued at \$30,034,537, a capital investment of \$40,586,892 and an employment of 5,954 persons, who received \$4,056,746 in salaries and wages. The development of the canned-foods trade has effected great changes in the relation of foods to seasons. Fruits and vegetables of many kinds are to be had at all times of the year with much of their original freshness and flavour. The producers in the country are provided with an enormously extended market and the consumers in both city and country with cheap and wholesome food in great variety. The industry has made rapid strides in the past few years. During the period of 1923-32 the volume of fruit and vegetable preparations produced increased 88.6 p.c. This growth is indeed remarkable, as it represents a corresponding increase in the domestic demand for these products, the foreign trade being relatively small as compared with the domestic production. Imports in 1932 were valued at \$2,381,568 and exports at \$2,723,326. According to these figures, the industry besides supplying the domestic requirements also has a small exportable surplus.

The sugar-refining industry is also of substantial importance. The demands created by the War gave it a great impetus. All things considered, 1919 was a record year. The number of persons employed (3,491), the value added by manufacture (\$16,321,882) and the exports (\$22,953,135) were the highest recorded, while the volume of sugar manufactured was only 10 p.c. lower than that of the peak year 1925, when 11,714,967 cwt. was produced. Since 1925, however, exports of sugar have declined with the result that production and employment slackened considerably. In 1932, the 8 sugar refineries reported a capital investment of \$37,654,457 and a value of production of \$41,022,589. They also employed 2,140 persons, receiving \$3,147,753 in salaries and wages, and they paid out \$25,716,922 for materials. Exports of sugar in 1932 amounted to 90,483 cwt. valued at \$428,337.

The beverage industry—breweries, distilleries and wineries—which are important elements of the vegetable products group, have expanded from a production of \$30,000,000 in 1922 to \$53,000,000 in 1932, owing partly to the modification of



prohibition laws in Canada and also to the fact that a large part of their production was exported directly or indirectly to the United States. The manufactured tobacco industry, another important factor in the vegetable products group, had a total production in 1932 of over \$37,000,000 and a payroll of 8,236 persons, who received \$7,127,070 in salaries and wages.

**Animal Products.**—Production in this group is determined, in large measure, by the demand at home and abroad for Canadian butter, cheese, canned fish, fresh or frozen meats, bacon and hams, condensed and evaporated milk, etc.

The leading industry of the group is that of slaughtering and meat packing, with a value of production in 1932 of \$91,246,523. Next comes butter and cheese, with a value of \$78,712,905. These two industries represent about two-thirds of the production of the entire group.

The butter and cheese industry, which manufactures a product of farm animals, has been for many years of leading importance in Canada. Originating in the agricultural districts of the Maritime Provinces, the Eastern Townships of Quebec, and the southern counties of Ontario, it is now developing rapidly in the Prairie Provinces and in the more recent northern settlements of Quebec and Ontario. For an industry so large in the aggregate, it is unique in having shown very little tendency toward consolidation in large units, the gross production of \$78,712,905 coming from no fewer than 2,708 plants, mostly small and scattered at convenient points throughout the farming communities.

The leather industries have long been established on a considerable scale, mainly, of course, because the large number of cattle raised and slaughtered provide a ready supply of hides. There are large tanneries in the eastern provinces, and no fewer than 191 boot and shoe factories were in operation in 1932, chiefly in Quebec and Ontario, representing a total capital of over \$22,000,000 with an annual output of over \$32,000,000 and employing 13,728 men and women. The canning and preserving of fish also calls for reference. Concentrated naturally upon the Pacific and Atlantic coasts, 629 establishments were engaged in 1932 in canning, curing and packing various kinds of fish that were valued at nearly \$17,000,000.

**Textile Products.**—The output of textiles in 1932 was valued at \$274,411,736. The establishments classified in this group which numbered 2,002 represent a capital investment of \$321,593,062; they furnished employment to 102,116 persons who were paid \$82,817,944 in salaries and wages and also spent \$129,468,738 for raw materials.

In net production, *i.e.*, in value added by manufacture, which is a truer criterion than gross production of the place of the group in the industrial life of the country the textile group was third in 1932 among the ten major groups shown in the summary statistics of Table 3, p. 447, being exceeded only by the wood and vegetable products groups. Textiles accounted for over 12 p.c. of the net manufacturing production of Canada. As an indication of the contribution which the textile group made in 1932 to the employment in the Dominion, the group stood second in the number of employees and also second in salaries and wages paid, with nearly 18 p.c. of the total employees in manufacturing and 13 p.c. of the total salaries and wages paid. Again this wide group of industries may be regarded as two distinct divisions: (1) the spinning, weaving and knitting trades, and (2) the finishing trades. If so regarded, the first division assumes the proportions of a very large industrial group

with a gross production for 1932 of \$136,897,332, while the second division is still larger with \$137,514,404 for gross production.

The hosiery and knitted goods industry is worthy of special mention. From the standpoint of the value of production the hosiery and knitted goods industry ranked first in the textile group in 1932. Despite the depressed condition of the textile industry generally, the volume and value of production in this branch of the industry held up remarkably well, the value of production being \$16,247,308 or 27.3 p.c. lower than the peak year of 1929. Employment also declined by 1,393 or 7.3 p.c. Due to the drastic declines in the value of raw materials with the consequent declines in the value of finished products, the employment figure is a better criterion of the recession experienced by this industry since 1929. The production of hosiery of all kinds in 1932 ranked first in importance with an output valued at \$18,683,811. Next in order came underwear, combination and separate garments with a value of \$11,122,328. Various other knitted and woven goods, yarns and numerous small sundries made up the balance. The industry is located chiefly in the province of Ontario, the 110 establishments located there producing \$28,602,549 or 66 p.c. of the entire output. The province of Quebec followed with an output of \$11,727,858 or 27 p.c. of the total.

Other important industries in this group, with the numbers of their employees and values of production, are as follows: women's factory clothing (products \$42,564,589, employees 14,276); cotton yarn and cloth (products \$38,555,370, employees 15,092); men's factory clothing (products \$27,289,591, employees 8,098); silk (products \$19,864,843, employees 7,036); men's furnishing goods (products \$17,607,656, employees 7,565); dyeing, cleaning and laundry work (products \$17,302,779, employees 11,170); woollen cloth (products \$13,127,796, employees 4,990); and hats and caps (products \$9,464,267, employees 3,095).

The outstanding feature of the textile situation in Canada was the spectacular expansion of the silk industry during the past few years, at a time when practically all other industries were experiencing a diminishing demand for their products. Compared with 1926, this industry increased its output by \$11,357,690 or 134 p.c. and also furnished employment to 4,613 more people in 1932; this represented an increase in employment of 190 p.c.

Reports were received from 2,002 establishments in the textile industries in 1932, an increase of 47 over the number reporting in 1931. They reported a gross value of production of \$274,411,736, a decline of \$42,746,934 or 13.5 p.c. from the previous year. This, however, was caused largely by the lower values of raw materials and finished products, for the index of the volume of production declined only by 4.6 p.c., having dropped from 103.2 in 1931 to 98.5 in 1932. (In this instance 1926 as 100 is the base year.) The amount of capital invested in 1932 totalled \$321,593,062, a decrease of \$30,751,011 or 8.7 p.c. There were 102,116 persons employed who were paid \$82,817,944 in salaries and wages and in comparison with 1931 these figures represent decreases of 3,357 or 3.2 p.c. in the number of persons employed and \$9,686,144 or 10.5 p.c. in the amount of salaries and wages paid. The cost of raw and other materials used dropped to \$129,468,738, a loss of \$23,722,637 or 15.5 p.c., while the value added by manufacture, *viz.*, \$144,942,998, declined by \$19,024,297 or 11.6 p.c.

**Wood and Paper.**—The forests of Canada have always been an important factor in the building up and maintaining of manufacturing industries. Since early

pioneering times the sawmill has formed one of the first steps from the pioneering community to the industrial centre. There is to-day practically no form of industrial activity in which wood is not used directly as a raw material or indirectly as, for example, in the form of paper. The primary operations in the woods provide work for at least 200,000 individuals, largely during a part of the year when employment in manufacturing industries is at its minimum, and have a valuable steadying effect on general labour conditions throughout the year.

The manufacture of lumber, which depends to a large extent on building and construction operations and the export markets, has shown wide fluctuations. The peak, reached in 1911 with a total cut of 4,918,000 M ft. b.m. has never been equalled. It was followed by a general decline to the 2,869,000 M ft. reported for 1921. Production then increased with fair regularity to a second peak in 1929 of 4,742,000 M ft. Production since 1929 has decreased annually to the 1,810,000 M ft. reported in 1932.

The manufacturing industries which draw their principal raw material from the sawmills reached their maximum production in 1929 with a gross value of \$146,950,000 and then declined to \$60,234,000 in 1932.

The pulp and paper industry is a comparatively recent development in Canadian industry. In 1881 there were only 36 paper and 5 pulp mills in operation in Canada. By 1923 the industry had displaced flour milling as Canada's most important manufacturing industry and in spite of recent vicissitudes has held that position ever since. The peak of production was reached in 1929 when 4,021,000 tons of wood pulp and 3,197,000 tons of paper were produced. In that year there were 108 pulp and paper mills in operation, consuming 5,278,000 cords of pulpwood and using hydro-electric power valued at more than \$13,000,000. During 1926, Canada, for the first time, produced more newsprint paper than the United States and became the world's chief producer and exporter of that commodity; she has maintained that position ever since in spite of decreases in production. During 1932 this industry produced 2,663,000 tons of pulp and 2,291,000 tons of paper. Of this paper 1,919,000 tons was newsprint and exceeded the production of the United States by over 104 p.c.

The manufacturing industries which draw their principal raw material from the pulp and paper mills reached their maximum production of \$187,882,000 in 1929. The value in 1932 for these industries was \$135,212,000.

**Iron and Its Products.**—The manufacture of iron and steel and their products is one of Canada's basic industries. Iron ore is not now produced in Canada, as the known deposits, though extensive, are not of sufficiently high grade to permit economic operation under present conditions. Yet there has been built up a primary steel industry of considerable importance, and the secondary or fabricating industries have been expanding steadily to meet the country's increasing requirements.

There are now four concerns which make pig iron in Canada, one being in Nova Scotia and three in Ontario. The former uses Nova Scotia coal and iron ore from the great Wabana deposits which it controls, on Bell island, Newfoundland, while the Ontario works are dependent on ore and coal brought from the United States. These companies have 11 blast furnaces with a total rated capacity of 1.5 million long tons of pig iron per annum, but the highest tonnage yet attained was 1,080,160 long tons in 1929. Open hearth steel furnaces and rolling-mills are also operated by these companies, which produce steel ingots, blooms and billets, bars, rods, rails, structural shapes, plates, sheets, rail fastenings, etc. Including electric



steel furnaces, there were 28 steel plants in operation in 1932, which, with the 19 rolling-mills, 4 pig-iron plants and 2 ferro-alloy plants, represented a capital of \$96,323,629 and employed 4,847 hands to produce primary products worth \$16,197,526. This output value was much below normal and in fact was the lowest recorded since the Bureau commenced to collect annual statistics in 1918. The value for 1931 was \$36,911,245, for 1930, \$52,588,935 and for 1929, \$72,231,995.

Automobile manufacturing was the most important of the secondary iron and steel industries in 1932, although the production value of \$43,801,389 was the lowest on record for the industry. Seventeen companies manufactured or assembled motor cars in Canada in 1932 and 25 separate factories were in operation. The capacity of these plants was reported at 340,000 automobiles and 32,000 trucks annually, from which it is calculated that the industry operated at about 16 p.c. of capacity during 1932, when only 60,789 cars were produced. In 1929, the year of highest production, the plants operated at 66 p.c. of their estimated capacity. Production in 1929 totalled 262,625 cars at \$163,497,675; in 1930 the output was 153,372 cars at \$91,766,806, and in 1931, 82,559 cars at \$52,964,936. Exports of automobiles and parts declined from \$47,005,671 in 1929 to \$20,386,354 in 1930 and to \$7,091,994 in 1932.

There are also numerous works in Canada for the manufacture of machinery, agricultural implements, railway rolling-stock, automobile parts, boilers and engines, castings and forgings, sheet-metal products, hardware and tools, wire and wire goods, etc., and the variety of products made in these establishments is increasing yearly.

The iron and steel industries, which are engaged almost entirely in the production of capital goods, have been severely affected by the depressed economic conditions of the past few years. In 1932, the 1,233 operating factories reported production valued at only \$225,832,185 compared with \$374,725,068 in 1931, \$569,745,973 in 1930 and \$738,012,980 in 1929.

**Non-Ferrous Metals.**—Production from this group of manufactures, which includes non-ferrous smelters and refineries, electrical equipment factories, brass foundries, etc., has declined considerably during the past two years. Output in 1932 was valued at \$152,111,317 or 28 p.c. below the 1931 value of \$211,862,412 and 39 p.c. below the total of \$250,458,721 in 1930. Capital employed in the 452 operating factories in 1932 was reported at \$272,045,441 and the number of employees was given at 26,704.

The smelting and refining of non-ferrous metals was the leading industry of the group in 1932. Thirteen plants were operated in that year by 10 different companies and products were valued at \$76,442,076. Capital employed amounted to \$149,708,860 and the average number of workers was 5,343. Products included aluminium, nickel, cobalt, copper, zinc, lead, silver, gold, bismuth, cadmium, selenium, radium and other refinery products. Output in 1932 was 22 p.c. lower than in 1931 and 30 p.c. lower than in 1929, the record year.

The electrical apparatus industry also showed a considerable decline in 1932, due chiefly to the poor demand for heavy electrical machinery, wire and cable, and radios. Output in 1932 totalled \$53,264,918 compared with \$81,578,595 in 1931 and \$104,577,790 in 1930. Radio production alone dropped from 291,711 sets at \$18,555,710 in 1931 to 121,468 sets at \$6,808,877 in 1932.

Jewellery, silverware, white metal alloys, aluminium utensils, and brass and copper goods were the other important products made in factories in this group.



**Non-Metallic Minerals.**—This group of manufactures includes such leading industries as coke making, oil refining, the manufacture of glass, artificial abrasives, bricks, cement, etc. Final figures for 1932 show that the output for this group amounted in value to \$147,765,618, which is 18.6 p.c. below the corresponding total for 1931 and 32 p.c. below 1930.

The petroleum-refining industry is by far the largest of the group. Canada produces some crude oil, but the bulk of the oil treated in Canadian refineries is imported from United States or South America. In 1932 there were 24 refineries operating at advantageous points across the Dominion. The industry used 930,114,055 gallons of crude oil in that year and produced refined commodities worth \$71,697,757. About 4,116 people were given employment and the capital investment was \$69,475,860.

**Chemicals and Allied Products.**—That chemical manufactures occupy an important place in Canadian industry is obvious from the fact that in 1932 a total of 15,295 persons were employed in the 662 plants which made chemicals and allied products. These plants produce the greater part of the chemicals that are consumed in this country. In 1932 the apparent consumption of chemicals and allied products amounted in value to \$109,364,452, of which \$95,279,376 or 87 p.c. was of domestic manufacture.

Chemicals and like products of great diversity are made in Canada, but paints, soaps, medicines, acids and chemical salts are most important. Production from the 14 plants in the heavy chemical industry, which represented a capital of \$44,067,194, amounted to \$11,357,649 in 1932, while in 1929 it was \$28,021,972. Acetic acid, calcium cyanamide, sodium cyanide, caustic soda, soda ash, sulphuric acid, phosphorus, calcium carbide and nitre cake are among the leading products. The export trade in these commodities amounted to about \$11,000,000 in 1932.

The medicinal and pharmaceutical preparations industry employed 2,959 workers in 1932 and paid \$3,833,778 in salaries and wages. Production in that year was valued at \$17,573,979. The paints industry was next in importance, there being 71 factories in this line of manufacture, with output worth \$14,912,383. The production of soaps and cleaning preparations was worth \$14,739,158 and 1,777 people worked in the 85 factories in this industry. The heavy chemical industry employed 1,679 workers in 14 plants to produce acids, alkalies and salts valued at \$11,357,649. Compressed gases, fertilizers, coal-tar products, wood-distillation products, inks, adhesives, polishes, and a multitude of other such products are also made in the chemical plants.

Many chemical products are also made in industries which for statistical purposes are not included in the chemicals and allied products group. For instance, pulp and paper, distilled liquors, brewery products and artificial abrasives are classified in other groups. By extending the scope of the chemical industry to include these other factories, which primarily use chemical processes, approximately 70,000 workers would be employed and production would total over \$425,000,000.

**Central Electric Stations.**—This industry is shown under the totals by groups in Table 7 as a separate group in order to facilitate the presentation of statistics of power installed in the other groups and industries. (See also pp. 427-430.)

The principal statistics of each of the manufacturing industries of Canada during 1932 are presented in Table 7 on pp. 462 to 467.

## 7.—Statistics of the Numbers, Capital, Employees, Salaries and Wages, Power, Fuel,

| No. | Group and Kind of Industry.              | Establishments. | Capital Employed.    | Salaried Employees. |               |                    |
|-----|------------------------------------------|-----------------|----------------------|---------------------|---------------|--------------------|
|     |                                          |                 |                      | Male.               | Female.       | Salaries.          |
|     |                                          | No.             | \$                   | No.                 | No.           | ■                  |
|     | <b>Totals by Provinces .....</b>         | <b>24,544</b>   | <b>4,741,255,610</b> | <b>74,364</b>       | <b>20,706</b> | <b>164,695,605</b> |
| 1   | Prince Edward Island.....                | 274             | 3,867,195            | 217                 | 45            | 218,799            |
| 2   | Nova Scotia.....                         | 1,404           | 125,639,707          | 1,950               | 457           | 3,192,658          |
| 3   | New Brunswick.....                       | 841             | 117,454,168          | 1,630               | 393           | 3,121,529          |
| 4   | Quebec.....                              | 7,851           | 1,632,955,979        | 22,298              | 5,245         | 47,485,708         |
| 5   | Ontario.....                             | 9,844           | 2,144,008,857        | 36,332              | 11,916        | 87,094,114         |
| 6   | Manitoba.....                            | 970             | 190,545,652          | 3,428               | 908           | 7,307,266          |
| 7   | Saskatchewan.....                        | 774             | 63,294,823           | 1,657               | 280           | 2,804,034          |
| 8   | Alberta.....                             | 943             | 100,609,788          | 2,194               | 440           | 4,018,763          |
| 9   | British Columbia and Yukon.....          | 1,643           | 362,879,441          | 4,678               | 1,022         | 9,452,734          |
|     | <b>Totals by Groups.....</b>             | <b>24,544</b>   | <b>4,741,255,610</b> | <b>74,364</b>       | <b>20,706</b> | <b>164,695,605</b> |
| 1   | Vegetable products.....                  | 5,244           | 516,356,149          | 11,489              | 2,816         | 24,119,999         |
| 2   | Animal products.....                     | 4,413           | 193,015,462          | 8,047               | 1,876         | 13,930,835         |
| 3   | Textiles and textile products.....       | 2,002           | 321,593,062          | 7,130               | 3,427         | 18,955,951         |
| 4   | Wood and paper products.....             | 7,844           | 854,639,232          | 18,861              | 4,576         | 38,172,143         |
| 5   | Iron and its products.....               | 1,233           | 608,619,518          | 10,037              | 2,503         | 24,646,237         |
| 6   | Non-ferrous metal products.....          | 452             | 272,045,441          | 4,860               | 1,485         | 12,180,170         |
| 7   | Non-metallic mineral products.....       | 1,182           | 312,569,679          | 3,146               | 688           | 6,869,821          |
| 8   | Chemicals and chemical products.....     | 662             | 160,929,954          | 3,763               | 1,384         | 10,232,416         |
| 9   | Miscellaneous industries.....            | 479             | 65,600,126           | 1,806               | 540           | 4,238,224          |
| 10  | Central electric stations.....           | 1,033           | 1,335,886,987        | 5,225               | 1,411         | 11,349,809         |
|     | <b>1.—Vegetable Products.....</b>        | <b>5,244</b>    | <b>516,356,149</b>   | <b>11,489</b>       | <b>2,816</b>  | <b>24,119,999</b>  |
| 1   | Biscuits, confectionery, cocoa, etc..... | 262             | 45,402,886           | 1,795               | 524           | 4,087,777          |
| 2   | Bread and other bakery products.....     | 2,861           | 48,961,175           | 2,156               | 515           | 2,675,161          |
| 3   | Breweries.....                           | 75              | 57,398,055           | 788                 | 134           | 2,351,113          |
| 4   | Coffee, tea and spices.....              | 63              | 14,191,519           | 571                 | 166           | 1,494,282          |
| 5   | Distilleries.....                        | 21              | 51,942,784           | 279                 | 48            | 868,279            |
| 6   | Flour and feed mills.....                | 1,290           | 58,283,212           | 1,669               | 181           | 2,184,813          |
| 7   | Foods, breakfast.....                    | 12              | 4,161,700            | 68                  | 36            | 184,064            |
| 8   | Foods, stock and poultry.....            | 37              | 3,738,325            | 129                 | 41            | 270,431            |
| 9   | Foods, miscellaneous.....                | 65              | 7,586,096            | 182                 | 69            | 435,790            |
| 10  | Fruit and vegetable preparations.....    | 258             | 40,586,892           | 588                 | 181           | 1,299,666          |
| 11  | Ice cream cones.....                     | 11              | 537,321              | 9                   | 5             | 17,259             |
| 12  | Linseed oil and oil cake.....            | 9               | 2,821,849            | 38                  | 5             | 101,222            |
| 13  | Macaroni, vermicelli, etc.....           | 14              | 1,911,494            | 28                  | 15            | 77,399             |
| 14  | Malt and malt products.....              | 11              | 7,836,724            | 64                  | 9             | 159,448            |
| 15  | Rice mills.....                          | 5               | 875,609              | 19                  | 2             | 61,522             |
| 16  | Rubber goods, including footwear.....    | 47              | 65,794,903           | 1,239               | 378           | 2,782,789          |
| 17  | Starch and glucose.....                  | 6               | 6,720,515            | 75                  | 35            | 251,384            |
| 18  | Sugar refineries.....                    | 8               | 37,654,457           | 247                 | 77            | 941,509            |
| 19  | Tobacco, cigars and cigarettes.....      | 116             | 42,351,650           | 1,349               | 362           | 3,411,202          |
| 20  | Tobacco processing and packing.....      | 18              | 9,525,942            | 83                  | 8             | 171,587            |
| 21  | Wine.....                                | 55              | 8,073,041            | 113                 | 25            | 293,302            |
|     | <b>2.—Animal Products.....</b>           | <b>4,413</b>    | <b>193,015,462</b>   | <b>8,047</b>        | <b>1,876</b>  | <b>13,930,835</b>  |
| 1   | Animal oils and fats.....                | 4               | 90,260               | 2                   | -             | 2,195              |
| 2   | Belting, leather.....                    | 12              | 876,830              | 42                  | 12            | 95,704             |
| 3   | Boot and shoe findings, leather.....     | 15              | 1,275,775            | 35                  | 7             | 92,126             |
| 4   | Boots and shoes.....                     | 191             | 22,024,801           | 1,031               | 412           | 2,408,397          |
| 5   | Butter and cheese.....                   | 2,708           | 50,924,744           | 3,358               | 688           | 4,169,301          |
| 6   | Condensed milk.....                      | 26              | 6,469,831            | 154                 | 54            | 382,181            |
| 7   | Fish curing and packing.....             | 629             | 17,043,212           | 434                 | 52            | 602,760            |
| 8   | Fur dressing and dyeing.....             | 13              | 1,029,090            | 73                  | 8             | 185,043            |
| 9   | Fur goods.....                           | 269             | 9,790,267            | 425                 | 146           | 926,914            |
| 10  | Gloves and mittens, leather.....         | 42              | 2,045,670            | 103                 | 38            | 202,840            |
| 11  | Hair goods, human.....                   | 3               | 21,811               | -                   | -             | -                  |
| 12  | Harness and saddlery.....                | 157             | 3,151,405            | 216                 | 36            | 233,696            |
| 13  | Leather goods, n.e.s.....                | 44              | 1,085,402            | 85                  | 34            | 177,438            |
| 14  | Leather tanneries.....                   | 82              | 21,609,503           | 246                 | 57            | 737,081            |
| 15  | Sausage and sausage casings.....         | 62              | 846,099              | 62                  | 16            | 100,125            |
| 16  | Slaughtering and meat packing.....       | 141             | 53,227,929           | 1,721               | 298           | 3,455,398          |
| 17  | Trunks and bags.....                     | 13              | 1,439,214            | 53                  | 16            | 141,636            |
| 18  | All other industries.....                | 2               | 83,619               | 7                   | 2             | 18,000             |

## Materials and Values of Products of Canadian Manufacturing Industries, 1932.

| Employees on Wages. |         |             | Power<br>Installed.     | Cost of<br>Fuel Used. | Cost of<br>Materials. | Value of Products. |               | No. |
|---------------------|---------|-------------|-------------------------|-----------------------|-----------------------|--------------------|---------------|-----|
| Male.               | Female. | Wages.      |                         |                       |                       | Gross.             | Net.          |     |
| No.                 | No.     | \$          | h.p.                    | \$                    | \$                    | \$                 | \$            |     |
| 301,308             | 99,020  | 341,187,718 | 7,991,789 <sup>1</sup>  | 37,947,966            | 955,968,683           | 2,126,194,555      | 1,170,225,872 |     |
| 619                 | 266     | 506,438     | 9,175                   | 115,017               | 1,949,038             | 3,566,968          | 1,617,930     | 1   |
| 8,634               | 2,101   | 8,007,203   | 264,698                 | 1,844,901             | 22,920,430            | 50,351,054         | 27,430,624    | 2   |
| 8,104               | 1,890   | 7,502,150   | 212,785                 | 1,503,559             | 20,776,650            | 47,472,393         | 26,695,743    | 3   |
| 93,245              | 40,651  | 103,995,430 | 3,389,757               | 9,688,778             | 292,203,152           | 668,417,093        | 376,213,941   | 4   |
| 144,675             | 46,328  | 169,113,118 | 2,455,227               | 18,101,434            | 459,910,999           | 1,028,397,654      | 568,486,655   | 5   |
| 14,648              | 3,271   | 16,850,323  | 485,776                 | 1,669,770             | 45,591,099            | 96,056,029         | 50,464,930    | 6   |
| 3,263               | 335     | 3,588,028   | 146,327                 | 1,483,209             | 18,214,555            | 36,101,516         | 17,886,961    | 7   |
| 7,403               | 1,137   | 7,867,351   | 177,125                 | 990,173               | 28,442,192            | 55,293,832         | 26,851,640    | 8   |
| 20,717              | 3,071   | 23,757,671  | 850,919                 | 2,551,125             | 65,960,568            | 140,538,016        | 74,577,448    | 9   |
| 301,308             | 99,020  | 341,187,718 | 10,685,953 <sup>2</sup> | 37,947,966            | 955,968,683           | 2,126,194,555      | 1,170,225,872 |     |
| 39,817              | 18,268  | 45,927,453  | 326,829                 | 5,668,346             | 225,135,488           | 436,736,251        | 211,600,763   | 1   |
| 30,972              | 9,058   | 32,048,958  | 100,069                 | 2,497,164             | 167,170,394           | 262,793,629        | 95,623,235    | 2   |
| 38,623              | 52,936  | 63,861,993  | 189,915                 | 3,274,218             | 129,468,738           | 274,411,736        | 144,942,998   | 3   |
| 75,695              | 8,702   | 74,200,059  | 2,094,010               | 7,807,857             | 142,349,790           | 369,601,600        | 227,251,810   | 4   |
| 59,426              | 2,248   | 57,693,200  | 623,888                 | 5,126,028             | 102,289,749           | 225,832,185        | 123,542,436   | 5   |
| 17,225              | 3,134   | 20,574,933  | 450,271                 | 1,871,715             | 67,934,940            | 152,111,317        | 84,176,377    | 6   |
| 16,029              | 479     | 17,609,856  | 209,484                 | 8,306,496             | 74,358,159            | 147,765,618        | 73,407,459    | 7   |
| 7,656               | 2,492   | 9,775,692   | 105,671                 | 1,263,465             | 35,276,531            | 95,279,376         | 60,002,845    | 8   |
| 7,106               | 1,703   | 7,584,217   | 57,383                  | 299,162               | 11,984,894            | 33,242,610         | 21,257,716    | 9   |
| 8,759               | -       | 11,911,357  | 6,528,533               | 1,833,515             | -                     | 128,420,233        | 128,420,233   | 10  |
| 39,817              | 18,268  | 45,927,453  | 326,829                 | 5,668,346             | 225,135,488           | 436,736,251        | 211,600,763   |     |
| 3,580               | 4,627   | 5,337,721   | 22,731                  | 455,506               | 15,594,694            | 37,386,093         | 21,791,399    | 1   |
| 12,479              | 1,706   | 13,234,644  | 15,542                  | 1,444,363             | 23,431,275            | 53,450,352         | 30,019,077    | 2   |
| 3,381               | 50      | 3,581,112   | 23,418                  | 465,284               | 10,210,482            | 38,212,192         | 20,081,710    | 3   |
| 638                 | 484     | 991,824     | 3,230                   | 44,955                | 13,066,931            | 19,014,351         | 5,947,420     | 4   |
| 767                 | 356     | 888,965     | 9,643                   | 256,490               | 3,321,569             | 11,349,269         | 8,027,700     | 5   |
| 3,602               | 134     | 3,391,582   | 123,030                 | 418,502               | 63,177,656            | 84,748,800         | 21,571,144    | 6   |
| 256                 | 120     | 415,157     | 3,886                   | 65,001                | 1,949,651             | 6,918,470          | 4,968,819     | 7   |
| 239                 | 16      | 214,506     | 3,494                   | 7,713                 | 1,988,150             | 3,138,228          | 1,150,078     | 8   |
| 411                 | 265     | 531,745     | 4,270                   | 100,907               | 4,157,293             | 8,011,331          | 3,854,038     | 9   |
| 2,340               | 2,845   | 2,757,080   | 13,576                  | 373,903               | 15,600,602            | 30,034,537         | 14,433,935    | 10  |
| 41                  | 14      | 36,339      | 95                      | 15,574                | 66,246                | 229,628            | 163,382       | 11  |
| 175                 | -       | 178,835     | 2,154                   | 18,791                | 2,162,862             | 2,852,881          | 690,019       | 12  |
| 99                  | 64      | 122,576     | 1,550                   | 10,138                | 560,734               | 1,053,589          | 492,855       | 13  |
| 189                 | -       | 291,718     | 5,429                   | 212,579               | 2,584,244             | 4,798,735          | 2,214,491     | 14  |
| 51                  | -       | 55,062      | 549                     | 620                   | 934,528               | 1,271,580          | 337,052       | 15  |
| 6,057               | 2,651   | 6,558,122   | 63,330                  | 480,027               | 11,906,696            | 40,746,910         | 28,840,214    | 16  |
| 430                 | 13      | 411,566     | 4,470                   | 161,036               | 1,588,114             | 3,475,424          | 1,887,310     | 17  |
| 1,731               | 85      | 2,206,244   | 21,539                  | 981,458               | 25,716,922            | 41,022,589         | 15,305,667    | 18  |
| 2,344               | 4,181   | 3,715,868   | 3,708                   | 95,557                | 18,787,261            | 37,361,781         | 18,574,520    | 19  |
| 727                 | 621     | 744,686     | 362                     | 34,525                | 6,752,694             | 8,700,445          | 1,947,751     | 20  |
| 280                 | 36      | 262,101     | 823                     | 25,417                | 1,576,884             | 2,959,066          | 1,382,182     | 21  |
| 30,972              | 9,058   | 32,048,958  | 100,069                 | 2,497,164             | 167,170,394           | 262,793,629        | 95,623,235    |     |
| 17                  | -       | 12,178      | 103                     | 3,020                 | 14,516                | 53,262             | 38,746        | 1   |
| 67                  | -       | 67,238      | 409                     | 7,546                 | 173,728               | 389,784            | 216,056       | 2   |
| 195                 | 55      | 172,303     | 1,262                   | 17,010                | 475,028               | 1,038,989          | 563,961       | 3   |
| 7,599               | 4,686   | 8,748,459   | 6,906                   | 89,792                | 15,753,021            | 32,242,416         | 16,489,395    | 4   |
| 7,600               | 262     | 7,050,065   | 27,673                  | 961,161               | 51,768,536            | 78,712,905         | 26,944,369    | 5   |
| 500                 | 37      | 586,767     | 4,051                   | 258,930               | 3,890,974             | 7,392,897          | 3,501,923     | 6   |
| 2,657               | 985     | 1,741,404   | 10,581                  | 240,440               | 10,263,631            | 16,684,125         | 6,420,494     | 7   |
| 522                 | 97      | 515,161     | 1,040                   | 9,065                 | 329,087               | 1,384,611          | 1,055,424     | 8   |
| 1,077               | 868     | 1,844,290   | 455                     | 17,385                | 6,388,374             | 10,791,838         | 4,403,464     | 9   |
| 500                 | 690     | 652,487     | 292                     | 8,823                 | 1,082,901             | 2,145,547          | 1,062,646     | 10  |
| 1                   | 4       | 3,110       | -                       | -                     | 7,098                 | 12,056             | 4,958         | 11  |
| 402                 | 87      | 380,455     | 699                     | 14,007                | 899,385               | 1,726,516          | 827,131       | 12  |
| 267                 | 330     | 439,020     | 215                     | 4,955                 | 937,753               | 1,866,094          | 928,341       | 13  |
| 2,705               | 88      | 2,443,582   | 12,793                  | 267,570               | 7,988,742             | 14,188,118         | 6,201,376     | 14  |
| 267                 | 41      | 255,035     | 530                     | 15,707                | 1,261,962             | 1,958,637          | 696,675       | 15  |
| 6,299               | 783     | 6,893,917   | 32,248                  | 569,808               | 65,575,957            | 91,246,523         | 25,670,566    | 16  |
| 289                 | 45      | 237,656     | 737                     | 11,218                | 343,496               | 918,281            | 574,785       | 17  |
| 8                   | -       | 5,831       | 75                      | 727                   | 18,205                | 41,130             | 22,925        | 18  |

<sup>1</sup>Exclusive of purchased power.<sup>2</sup>Including purchased power.

## 7.—Statistics of the Numbers, Capital, Employees, Salaries and Wages, Power, Fuel,

| No.                                               | Group and Kind of Industry. | Establish-<br>ments. | Capital<br>Employed. | Salaried Employees. |              |                   |
|---------------------------------------------------|-----------------------------|----------------------|----------------------|---------------------|--------------|-------------------|
|                                                   |                             |                      |                      | Male.               | Female.      | Salaries.         |
|                                                   |                             | No.                  | \$                   | No.                 | No.          | \$                |
| <b>3.—Textiles and Textile Products.....</b>      |                             | <b>2,002</b>         | <b>321,593,062</b>   | <b>7,130</b>        | <b>3,427</b> | <b>18,955,951</b> |
| 1 Awnings, tents and sails.....                   | 56                          | 1,647,914            | 110                  | 29                  | 192,011      |                   |
| 2 Bags, cotton and jute.....                      | 23                          | 4,992,545            | 100                  | 32                  | 303,923      |                   |
| 3 Bating and wadding.....                         | 6                           | 1,297,062            | 12                   | 4                   | 55,846       |                   |
| 4 Carpets, mats and rugs.....                     | 22                          | 6,692,909            | 137                  | 38                  | 319,777      |                   |
| 5 Clothing, factory, men's.....                   | 163                         | 16,434,048           | 832                  | 339                 | 1,914,531    |                   |
| 6 Clothing, factory, women's.....                 | 461                         | 18,147,033           | 1,203                | 699                 | 3,291,876    |                   |
| 7 Clothing contractors, men's and women's.....    | 95                          | 377,053              | 92                   | 15                  | 102,352      |                   |
| 8 Cordage, rope and twine.....                    | 12                          | 10,184,932           | 85                   | 29                  | 294,337      |                   |
| 9 Corsets.....                                    | 19                          | 3,961,935            | 144                  | 174                 | 513,397      |                   |
| 10 Cotton and wool waste.....                     | 13                          | 709,452              | 22                   | 13                  | 66,306       |                   |
| 11 Cotton textiles, n.e.s.....                    | 36                          | 1,898,602            | 69                   | 21                  | 154,114      |                   |
| 12 Cotton thread.....                             | 5                           | 3,375,702            | 64                   | 24                  | 182,899      |                   |
| 13 Cotton yarn and cloth.....                     | 35                          | 72,504,504           | 407                  | 123                 | 1,137,133    |                   |
| 14 Dyeing and finishing of textiles.....          | 19                          | 4,688,350            | 87                   | 27                  | 252,802      |                   |
| 15 Dyeing, cleaning and laundry work.....         | 409                         | 24,893,114           | 875                  | 509                 | 1,990,006    |                   |
| 16 Flax, dressed.....                             | 4                           | 39,193               | —                    | —                   | —            |                   |
| 17 Furnishing goods, men's.....                   | 153                         | 13,880,827           | 527                  | 255                 | 1,456,182    |                   |
| 18 Gloves and mittens, fabric.....                | 8                           | 554,933              | 10                   | 5                   | 22,635       |                   |
| 19 Hats and caps.....                             | 130                         | 5,891,615            | 313                  | 135                 | 759,633      |                   |
| 20 Hosiery and knitted goods.....                 | 169                         | 52,604,950           | 875                  | 550                 | 2,759,554    |                   |
| 21 Linen goods and other flax products.....       | 3                           | 399,805              | 8                    | 2                   | 21,213       |                   |
| 22 Miscellaneous textiles, n.e.s.....             | 13                          | 11,904,812           | 238                  | 40                  | 669,864      |                   |
| 23 Oiled and waterproof clothing.....             | 16                          | 643,547              | 32                   | 11                  | 65,412       |                   |
| 24 Silk and artificial silk.....                  | 24                          | 28,021,412           | 417                  | 201                 | 1,128,023    |                   |
| 25 Woollen cloth.....                             | 55                          | 21,105,744           | 311                  | 102                 | 837,687      |                   |
| 26 Woollen goods, n.e.s.....                      | 24                          | 7,034,820            | 82                   | 22                  | 270,054      |                   |
| 27 Woollen yarn.....                              | 29                          | 7,706,249            | 78                   | 28                  | 193,884      |                   |
| <b>4.—Wood and Paper Products.....</b>            |                             | <b>7,844</b>         | <b>954,639,232</b>   | <b>18,861</b>       | <b>4,576</b> | <b>38,172,143</b> |
| 1 Beekeepers' and poultrymen's supplies.....      | 7                           | 194,450              | 9                    | 2                   | 14,694       |                   |
| 2 Blue printing.....                              | 18                          | 173,755              | 18                   | 6                   | 38,206       |                   |
| 3 Boat building.....                              | 111                         | 2,098,422            | 145                  | 10                  | 146,844      |                   |
| 4 Boxes and bags, paper.....                      | 126                         | 20,110,391           | 583                  | 207                 | 1,621,057    |                   |
| 5 Boxes, wooden.....                              | 129                         | 9,099,408            | 316                  | 41                  | 553,754      |                   |
| 6 Carriages, wagons and sleighs.....              | 232                         | 3,068,486            | 279                  | 12                  | 239,744      |                   |
| 7 Carriage and wagon materials.....               | 4                           | 317,508              | 7                    | 2                   | 21,033       |                   |
| 8 Clothes pins.....                               | 3                           | 283,353              | 5                    | 2                   | 15,407       |                   |
| 9 Coffins and caskets.....                        | 37                          | 3,909,852            | 127                  | 31                  | 266,039      |                   |
| 10 Cooperage.....                                 | 73                          | 1,834,354            | 89                   | 7                   | 137,573      |                   |
| 11 Engraving, stereotyping and electrotyping..... | 77                          | 8,888,031            | 361                  | 136                 | 1,108,038    |                   |
| 12 Excelsior.....                                 | 10                          | 288,734              | 15                   | 5                   | 19,602       |                   |
| 13 Flooring, hardwood.....                        | 23                          | 5,240,932            | 121                  | 29                  | 259,608      |                   |
| 14 Furniture.....                                 | 380                         | 30,910,489           | 1,039                | 270                 | 2,127,619    |                   |
| 15 Lasts, trees and other shoe findings.....      | 11                          | 1,218,736            | 42                   | 16                  | 95,744       |                   |
| 16 Lithographing.....                             | 41                          | 12,076,978           | 323                  | 169                 | 1,235,645    |                   |
| 17 Miscellaneous paper products.....              | 91                          | 12,385,129           | 351                  | 162                 | 1,035,406    |                   |
| 18 Miscellaneous wooden products.....             | 163                         | 5,152,082            | 225                  | 39                  | 272,807      |                   |
| 19 Planing mills, sash and door factories.....    | 659                         | 37,434,946           | 1,238                | 186                 | 1,862,143    |                   |
| 20 Printing and bookbinding.....                  | 1,055                       | 39,451,964           | 2,433                | 698                 | 5,284,914    |                   |
| 21 Printing and publishing.....                   | 762                         | 61,156,728           | 5,396                | 1,803               | 11,522,619   |                   |
| 22 Pulp and paper.....                            | 98                          | 597,550,013          | 2,635                | 477                 | 7,240,125    |                   |
| 23 Roofing paper, wall board, etc.....            | 11                          | 5,244,999            | 147                  | 27                  | 398,218      |                   |
| 24 Sawmills.....                                  | 3,593                       | 80,796,425           | 2,630                | 150                 | 1,775,428    |                   |
| 25 Sporting goods.....                            | 30                          | 1,649,186            | 55                   | 22                  | 89,254       |                   |
| 26 Trade composition.....                         | 31                          | 915,842              | 55                   | 13                  | 141,223      |                   |
| 27 Woodenware.....                                | 17                          | 954,957              | 45                   | 9                   | 82,012       |                   |
| 28 Wood turning.....                              | 34                          | 1,422,887            | 66                   | 12                  | 81,852       |                   |
| 29 All other industries.....                      | 18                          | 10,810,195           | 116                  | 33                  | 485,535      |                   |
| <b>5.—Iron and Its Products.....</b>              |                             | <b>1,233</b>         | <b>608,619,548</b>   | <b>10,037</b>       | <b>2,503</b> | <b>21,646,237</b> |
| 1 Agricultural implements.....                    | 47                          | 73,576,979           | 542                  | 149                 | 1,322,367    |                   |
| 2 Automobiles.....                                | 25                          | 49,641,777           | 1,302                | 464                 | 3,949,998    |                   |
| 3 Automobile supplies.....                        | 76                          | 17,332,257           | 431                  | 161                 | 1,091,700    |                   |
| 4 Bicycles.....                                   | 3                           | 2,227,071            | 6                    | 4                   | 19,573       |                   |
| 5 Boilers, tanks and engines.....                 | 41                          | 10,231,811           | 251                  | 40                  | 581,307      |                   |
| 6 Bridge and structural steel work.....           | 18                          | 24,872,219           | 532                  | 72                  | 1,667,514    |                   |
| 7 Castings and forgings.....                      | 322                         | 79,225,330           | 1,431                | 382                 | 3,431,165    |                   |
| 8 Hardware and tools.....                         | 136                         | 26,180,715           | 512                  | 187                 | 1,305,470    |                   |
| 9 Iron and steel products, n.e.s.....             | 68                          | 5,700,394            | 237                  | 54                  | 489,178      |                   |
| 10 Machinery.....                                 | 179                         | 97,753,031           | 1,470                | 422                 | 3,323,702    |                   |
| 11 Primary iron and steel.....                    | 52                          | 95,323,629           | 536                  | 97                  | 1,426,040    |                   |
| 12 Railway rolling-stock.....                     | 38                          | 87,289,160           | 1,429                | 74                  | 2,878,957    |                   |
| 13 Sheet metal products.....                      | 157                         | 61,671,470           | 1,010                | 291                 | 2,215,121    |                   |
| 14 Wire and wire goods.....                       | 71                          | 26,593,675           | 348                  | 106                 | 944,145      |                   |



## Materials and Values of Products of Canadian Manufacturing Industries, 1932—con.

| Employees on Wages. |         |            | Power Installed. | Cost of Fuel Used. | Cost of Materials. | Value of Products. |             | No. |
|---------------------|---------|------------|------------------|--------------------|--------------------|--------------------|-------------|-----|
| Male.               | Female. | Wages.     |                  |                    |                    | Gross.             | Net.        |     |
| No.                 | No.     | \$         | h.p.             | \$                 | £                  | \$                 | \$          |     |
| 33,623              | 52,936  | 63,861,993 | 189,915          | 3,274,218          | 129,468,738        | 274,411,736        | 144,942,998 |     |
| 167                 | 118     | 226,752    | 224              | 6,151              | 562,538            | 1,174,966          | 612,428     | 1   |
| 279                 | 474     | 547,335    | 1,111            | 23,504             | 5,105,244          | 6,981,188          | 1,875,944   | 2   |
| 83                  | 20      | 93,642     | 603              | 4,802              | 279,338            | 590,933            | 311,595     | 3   |
| 513                 | 258     | 538,487    | 2,052            | 46,686             | 774,857            | 2,109,326          | 1,334,469   | 4   |
| 3,474               | 3,453   | 5,355,463  | 1,582            | 52,570             | 15,262,351         | 27,289,591         | 12,027,240  | 5   |
| 3,422               | 8,952   | 8,826,003  | 2,747            | 36,626             | 23,983,585         | 42,564,589         | 18,581,004  | 6   |
| 451                 | 843     | 608,512    | 165              | 3,902              | 62,763             | 1,012,312          | 949,549     | 7   |
| 611                 | 273     | 809,813    | 7,610            | 25,227             | 2,680,830          | 5,017,931          | 2,337,101   | 8   |
| 133                 | 1,066   | 688,831    | 418              | 9,341              | 1,812,233          | 4,267,671          | 2,455,438   | 9   |
| 105                 | 68      | 413,688    | 918              | 11,275             | 618,521            | 1,038,824          | 420,303     | 10  |
| 229                 | 432     | 405,565    | 448              | 12,904             | 1,022,608          | 1,979,361          | 956,753     | 11  |
| 170                 | 390     | 413,138    | 1,894            | 20,739             | 1,110,383          | 3,186,524          | 2,076,141   | 12  |
| 8,646               | 5,916   | 10,547,846 | 81,471           | 631,562            | 19,158,046         | 38,555,370         | 19,397,324  | 13  |
| 554                 | 94      | 551,298    | 2,999            | 134,082            | 619,662            | 2,537,348          | 1,917,686   | 14  |
| 3,732               | 6,054   | 7,030,435  | 14,762           | 749,395            | 1,587,586          | 17,302,779         | 15,715,193  | 15  |
| 23                  | —       | 8,850      | 114              | —                  | 17,825             | 26,421             | 8,596       | 16  |
| 896                 | 5,887   | 3,513,433  | 1,814            | 48,758             | 9,653,947          | 17,607,656         | 7,953,709   | 17  |
| 43                  | 115     | 90,548     | 349              | 1,783              | 176,345            | 360,579            | 184,234     | 18  |
| 1,178               | 1,469   | 2,190,455  | 1,498            | 47,519             | 4,522,711          | 9,464,267          | 4,941,556   | 19  |
| 5,343               | 10,887  | 10,715,420 | 19,222           | 485,779            | 19,349,634         | 43,252,752         | 23,903,118  | 20  |
| 20                  | 39      | 35,342     | 445              | 3,270              | 86,354             | 203,616            | 117,262     | 21  |
| 900                 | 143     | 837,794    | 7,095            | 138,491            | 2,837,618          | 6,202,456          | 3,364,838   | 22  |
| 87                  | 114     | 132,050    | 127              | 7,334              | 323,742            | 628,744            | 305,002     | 23  |
| 3,581               | 2,837   | 4,628,842  | 14,423           | 341,545            | 7,858,104          | 19,864,834         | 12,006,739  | 24  |
| 2,595               | 1,982   | 3,328,044  | 13,136           | 309,523            | 6,311,800          | 13,127,796         | 6,815,996   | 25  |
| 605                 | 186     | 617,122    | 8,677            | 54,306             | 1,278,677          | 3,470,874          | 2,192,197   | 26  |
| 783                 | 866     | 1,016,285  | 4,011            | 67,144             | 2,411,436          | 4,593,019          | 2,181,583   | 27  |
| 75,635              | 8,702   | 74,200,059 | 2,094,010        | 7,807,857          | 142,349,790        | 369,601,600        | 227,251,810 |     |
| 20                  | 30      | 29,413     | 222              | 2,091              | 37,772             | 155,842            | 118,070     | 1   |
| 42                  | 3       | 31,161     | 101              | 714                | 44,470             | 176,405            | 131,935     | 2   |
| 268                 | 1       | 204,679    | 1,367            | 5,492              | 151,415            | 687,150            | 535,735     | 3   |
| 1,889               | 1,975   | 2,790,991  | 5,988            | 94,370             | 8,787,604          | 17,026,439         | 8,238,835   | 4   |
| 2,267               | 248     | 1,465,717  | 16,654           | 27,305             | 2,526,169          | 5,683,839          | 3,162,670   | 5   |
| 327                 | 1       | 285,116    | 1,680            | 26,111             | 228,145            | 1,017,580          | 789,435     | 6   |
| 59                  | —       | 48,791     | 573              | 3,880              | 88,376             | 224,305            | 135,929     | 7   |
| 161                 | 48      | 85,125     | 761              | 80                 | 62,339             | 227,808            | 165,469     | 8   |
| 519                 | 100     | 555,724    | 1,470            | 20,508             | 886,830            | 2,444,673          | 1,557,843   | 9   |
| 368                 | —       | 281,941    | 2,219            | 14,287             | 101,991            | 1,514,223          | 712,232     | 10  |
| 1,309               | 372     | 2,322,575  | 2,480            | 32,514             | 1,049,525          | 6,037,866          | 4,988,341   | 11  |
| 49                  | 11      | 35,027     | 1,058            | 907                | 40,391             | 143,011            | 102,620     | 12  |
| 938                 | 9       | 635,143    | 7,730            | 24,434             | 1,615,589          | 2,890,522          | 1,274,953   | 13  |
| 6,744               | 295     | 4,754,468  | 20,759           | 276,636            | 5,921,666          | 17,998,842         | 12,077,176  | 14  |
| 305                 | 167     | 344,774    | 806              | 7,197              | 300,953            | 1,198,424          | 897,471     | 15  |
| 1,496               | 479     | 2,180,613  | 3,888            | 36,816             | 3,138,041          | 8,585,289          | 5,447,248   | 16  |
| 1,003               | 556     | 1,323,289  | 4,646            | 79,020             | 5,600,164          | 11,071,662         | 5,471,498   | 17  |
| 731                 | 77      | 581,919    | 4,206            | 19,410             | 1,025,484          | 2,568,808          | 1,543,324   | 18  |
| 4,834               | 32      | 3,652,814  | 47,262           | 124,096            | 8,073,672          | 15,500,259         | 7,426,587   | 19  |
| 6,348               | 2,200   | 8,589,102  | 11,757           | 145,399            | 10,967,767         | 31,270,486         | 20,302,719  | 20  |
| 7,485               | 1,227   | 11,883,987 | 24,026           | 274,102            | 11,193,930         | 54,812,748         | 43,618,818  | 21  |
| 20,821              | 628     | 21,108,003 | 1,662,146        | 6,109,484          | 48,970,967         | 135,648,729        | 86,677,762  | 22  |
| 298                 | —       | 269,619    | 2,563            | 71,839             | 1,398,969          | 3,677,994          | 2,279,025   | 23  |
| 15,466              | 39      | 8,985,662  | 257,172          | 287,402            | 23,405,576         | 38,506,647         | 15,101,071  | 24  |
| 313                 | 98      | 312,966    | 1,355            | 11,230             | 524,759            | 1,272,549          | 747,790     | 25  |
| 203                 | 9       | 256,695    | 165              | 3,204              | 52,639             | 609,539            | 556,900     | 26  |
| 341                 | 27      | 230,817    | 858              | 2,075              | 241,740            | 696,266            | 454,526     | 27  |
| 369                 | 29      | 256,923    | 2,469            | 4,420              | 371,392            | 901,173            | 529,781     | 28  |
| 712                 | 71      | 697,005    | 7,629            | 102,854            | 4,841,455          | 7,047,522          | 2,206,067   | 29  |
| 59,426              | 2,248   | 57,693,200 | 623,888          | 5,126,028          | 102,289,749        | 225,832,185        | 123,542,436 |     |
| 2,034               | 33      | 1,775,608  | 23,779           | 151,528            | 1,907,768          | 5,510,078          | 3,602,310   | 1   |
| 6,903               | 141     | 7,485,743  | 43,377           | 358,570            | 28,278,809         | 43,801,389         | 15,522,580  | 2   |
| 2,913               | 327     | 2,782,918  | 20,873           | 163,312            | 5,970,954          | 12,161,456         | 6,190,502   | 3   |
| 201                 | 15      | 215,892    | 1,018            | 12,536             | 139,755            | 762,348            | 622,593     | 4   |
| 1,097               | 3       | 1,055,646  | 9,233            | 62,356             | 1,527,402          | 4,465,089          | 2,937,687   | 5   |
| 1,589               | —       | 1,967,699  | 28,093           | 99,744             | 4,109,142          | 7,385,013          | 3,275,871   | 6   |
| 10,484              | 155     | 8,390,078  | 65,868           | 663,916            | 9,825,439          | 29,285,144         | 19,459,705  | 7   |
| 3,132               | 604     | 2,805,499  | 14,366           | 182,944            | 2,662,104          | 10,158,383         | 7,496,279   | 8   |
| 871                 | 10      | 845,833    | 4,977            | 33,354             | 1,322,985          | 3,076,860          | 1,753,875   | 9   |
| 5,205               | 94      | 4,571,210  | 32,945           | 262,222            | 7,781,233          | 22,270,195         | 14,538,962  | 10  |
| 4,202               | 12      | 4,705,017  | 237,063          | 1,561,281          | 6,289,483          | 16,197,526         | 9,908,043   | 11  |
| 14,081              | 28      | 14,581,185 | 109,775          | 1,065,248          | 14,101,765         | 32,465,192         | 18,363,427  | 12  |
| 4,459               | 612     | 4,641,705  | 15,199           | 297,075            | 14,831,672         | 27,886,299         | 13,054,627  | 13  |
| 2,255               | 214     | 1,969,167  | 17,322           | 211,942            | 3,591,238          | 10,407,213         | 6,815,975   | 14  |

## 7.—Statistics of the Numbers, Capital, Employees, Salaries and Wages, Power, Fuel,

| No.                                            | Group and Kind of Industry.                           | Establish-<br>ments. | Capital<br>Employed. | Employees on Salaries. |         |            |
|------------------------------------------------|-------------------------------------------------------|----------------------|----------------------|------------------------|---------|------------|
|                                                |                                                       |                      |                      | Male.                  | Female. | Salaries.  |
|                                                |                                                       | No.                  | \$                   | No.                    | No.     | \$         |
| <b>6.—Non-Ferrous Metal Products.....</b>      |                                                       |                      |                      |                        |         |            |
| 1                                              | Aluminium products.....                               | 452                  | 272,045,441          | 4,560                  | 1,485   | 12,180,170 |
| 2                                              | Brass and copper products.....                        | 14                   | 3,906,196            | 122                    | 44      | 245,785    |
| 3                                              | Electrical apparatus and supplies.....                | 119                  | 23,148,843           | 720                    | 149     | 1,604,998  |
| 4                                              | Jewellery and silverware.....                         | 169                  | 82,458,754           | 2,907                  | 1,025   | 7,489,526  |
| 5                                              | Lead, tin and zinc.....                               | 93                   | 7,460,760            | 296                    | 155     | 779,074    |
| 6                                              | Miscellaneous non-ferrous metal products.....         | 24                   | 4,434,722            | 82                     | 35      | 244,145    |
| 7                                              | Non-ferrous metal smelting and refining.....          | 20                   | 927,306              | 58                     | 13      | 125,932    |
|                                                |                                                       | 13                   | 149,708,860          | 675                    | 64      | 1,690,710  |
| <b>7.—Non-Metallic Mineral Products.....</b>   |                                                       |                      |                      |                        |         |            |
|                                                |                                                       | 1,182                | 312,569,679          | 3,146                  | 688     | 6,869,821  |
| 1                                              | Abrasive products.....                                | 14                   | 5,865,031            | 106                    | 30      | 261,190    |
| 2                                              | Aerated and mineral waters.....                       | 398                  | 12,640,708           | 512                    | 101     | 939,793    |
| 3                                              | Asbestos products.....                                | 13                   | 2,682,882            | 52                     | 14      | 129,423    |
| 4                                              | Cement.....                                           | 12                   | 55,294,814           | 96                     | 7       | 213,891    |
| 5                                              | Cement products.....                                  | 118                  | 4,461,574            | 154                    | 16      | 233,899    |
| 6                                              | Clay products from domestic clay.....                 | 164                  | 25,347,582           | 265                    | 39      | 565,675    |
| 7                                              | Clay products from imported clay.....                 | 16                   | 4,207,767            | 74                     | 15      | 213,129    |
| 8                                              | Coke and gas products.....                            | 42                   | 93,534,495           | 692                    | 238     | 1,480,752  |
| 9                                              | Glass products.....                                   | 63                   | 14,281,044           | 241                    | 74      | 604,815    |
| 10                                             | Lime.....                                             | 60                   | 6,823,949            | 63                     | 7       | 106,150    |
| 11                                             | Miscellaneous non-metallic mineral pro-<br>ducts..... | 31                   | 7,561,645            | 95                     | 25      | 225,549    |
| 12                                             | Petroleum products.....                               | 31                   | 69,475,860           | 485                    | 69      | 1,315,815  |
| 13                                             | Salt.....                                             | 8                    | 3,805,008            | 46                     | 16      | 133,449    |
| 14                                             | Sand-lime brick.....                                  | 6                    | 759,211              | 10                     | 1       | 23,000     |
| 15                                             | Stone, monumental and ornamental.....                 | 206                  | 5,828,109            | 255                    | 36      | 423,291    |
| <b>8.—Chemicals and Chemical Products.....</b> |                                                       |                      |                      |                        |         |            |
|                                                |                                                       | 662                  | 160,929,954          | 3,763                  | 1,384   | 10,232,416 |
| 1                                              | Acids, alkalis and salts.....                         | 14                   | 44,067,194           | 312                    | 33      | 746,726    |
| 2                                              | Adhesives.....                                        | 14                   | 2,501,171            | 34                     | 10      | 103,752    |
| 3                                              | Coal-tar distillation.....                            | 10                   | 5,168,775            | 30                     | 5       | 87,628     |
| 4                                              | Explosives, ammunition and fireworks.....             | 8                    | 7,016,875            | 139                    | 8       | 379,112    |
| 5                                              | Fertilizers.....                                      | 19                   | 17,083,478           | 164                    | 23      | 316,143    |
| 6                                              | Flavouring extracts.....                              | 23                   | 1,160,003            | 78                     | 16      | 171,640    |
| 7                                              | Gases, compressed.....                                | 31                   | 4,326,599            | 154                    | 58      | 377,568    |
| 8                                              | Inks, printing and writing.....                       | 24                   | 2,495,373            | 112                    | 35      | 388,826    |
| 9                                              | Medicinal and pharmaceutical preparations.....        | 151                  | 18,379,601           | 743                    | 419     | 2,278,558  |
| 10                                             | Miscellaneous chemical products.....                  | 92                   | 11,853,473           | 343                    | 164     | 872,731    |
| 11                                             | Paints, pigments and varnishes.....                   | 71                   | 23,978,252           | 874                    | 257     | 2,324,865  |
| 12                                             | Polishes and dressings.....                           | 44                   | 2,032,642            | 88                     | 36      | 242,420    |
| 13                                             | Soaps and washing compounds.....                      | 85                   | 13,801,620           | 515                    | 149     | 1,326,149  |
| 14                                             | Toilet preparations.....                              | 71                   | 5,492,507            | 167                    | 171     | 589,341    |
| 15                                             | Wood distillation.....                                | 5                    | 1,572,391            | 10                     | -       | 26,957     |
| <b>9.—Miscellaneous Industries.....</b>        |                                                       |                      |                      |                        |         |            |
|                                                |                                                       | 479                  | 65,600,126           | 1,896                  | 540     | 4,238,224  |
| 1                                              | Aircraft.....                                         | 7                    | 1,571,450            | 44                     | 9       | 94,171     |
| 2                                              | Artificial flowers and feathers.....                  | 8                    | 207,131              | 14                     | 15      | 26,143     |
| 3                                              | Automobile accessories, fabric.....                   | 9                    | 300,338              | 10                     | 6       | 22,272     |
| 4                                              | Brooms, brushes and mops.....                         | 82                   | 3,831,288            | 219                    | 74      | 377,716    |
| 5                                              | Buttons.....                                          | 14                   | 1,218,881            | 47                     | 11      | 107,995    |
| 6                                              | Candles.....                                          | 12                   | 651,098              | 24                     | 7       | 62,272     |
| 7                                              | Fountain pens and pencils.....                        | 10                   | 1,963,019            | 81                     | 33      | 194,612    |
| 8                                              | Ice, artificial.....                                  | 43                   | 4,855,968            | 76                     | 16      | 151,508    |
| 9                                              | Jewel cases and silverware cabinets.....              | 4                    | 160,367              | 8                      | 10      | 26,817     |
| 10                                             | Mattresses and springs.....                           | 63                   | 5,605,147            | 221                    | 64      | 605,415    |
| 11                                             | Motion pictures.....                                  | 9                    | 990,557              | 127                    | 37      | 260,154    |
| 12                                             | Musical instruments.....                              | 20                   | 5,107,534            | 154                    | 39      | 374,573    |
| 13                                             | Novelties, advertising and other.....                 | 14                   | 264,040              | 20                     | 10      | 44,265     |
| 14                                             | Refrigerators, other than electric and gas.....       | 8                    | 1,064,869            | 23                     | 8       | 48,570     |
| 15                                             | Regalia and society emblems.....                      | 11                   | 214,491              | 11                     | 7       | 25,975     |
| 16                                             | Scientific and professional equipment.....            | 26                   | 5,876,340            | 140                    | 82      | 429,385    |
| 17                                             | Shipbuilding and repairs.....                         | 37                   | 26,230,218           | 336                    | 38      | 788,683    |
| 18                                             | Signs, electric.....                                  | 13                   | 2,207,163            | 64                     | 10      | 167,846    |
| 19                                             | Stamps and stencils, rubber and metal.....            | 31                   | 608,978              | 61                     | 18      | 115,789    |
| 20                                             | Statuary, art goods and church supplies.....          | 30                   | 595,114              | 41                     | 20      | 86,056     |
| 21                                             | Store display accessories.....                        | 3                    | 180,844              | 11                     | 3       | 16,290     |
| 22                                             | Toys.....                                             | 12                   | 263,306              | 33                     | 5       | 62,371     |
| 23                                             | Typewriter supplies.....                              | 5                    | 752,478              | 28                     | 14      | 119,097    |
| 24                                             | Umbrellas.....                                        | 5                    | 200,844              | 9                      | 3       | 21,572     |
| 25                                             | All other industries.....                             | 3                    | 128,663              | 4                      | 1       | 8,677      |
| <b>10.—Central Electric Stations.....</b>      |                                                       |                      |                      |                        |         |            |
|                                                |                                                       | 1,033                | 1,335,886,987        | 5,225                  | 1,411   | 11,349,809 |

## Materials and Values of Products of Canadian Manufacturing Industries, 1932—con.

| Employees on Wages. |         |            | Power<br>Installed. | Cost of<br>Fuel Used. | Cost of<br>Materials. | Value of Products. |             | No. |
|---------------------|---------|------------|---------------------|-----------------------|-----------------------|--------------------|-------------|-----|
| Male.               | Female. | Wages.     |                     |                       |                       | Gross.             | Net.        |     |
| No.                 | No.     | \$         | h.p.                | \$                    | \$                    | \$                 | \$          |     |
| 17,225              | 3,134   | 20,574,933 | 450,271             | 1,871,715             | 67,934,940            | 152,111,317        | 84,176,377  |     |
| 430                 | 65      | 432,615    | 2,936               | 26,549                | 1,375,902             | 2,703,212          | 1,327,310   | 1   |
| 2,498               | 168     | 2,275,840  | 19,192              | 204,382               | 3,949,157             | 9,594,115          | 5,644,958   | 2   |
| 8,006               | 2,367   | 8,772,842  | 87,634              | 520,971               | 20,414,844            | 53,264,918         | 32,850,074  | 3   |
| 1,305               | 413     | 1,543,318  | 2,465               | 40,787                | 2,432,728             | 6,118,871          | 3,686,143   | 4   |
| 319                 | 96      | 377,335    | 2,950               | 34,728                | 1,935,507             | 3,498,049          | 1,562,542   | 5   |
| 63                  | 25      | 84,723     | 419                 | 5,578                 | 106,855               | 490,076            | 383,221     | 6   |
| 4,604               | -       | 7,088,260  | 334,675             | 1,038,720             | 37,719,947            | 76,442,076         | 38,722,129  | 7   |
| 16,029              | 479     | 17,609,856 | 209,484             | 8,306,496             | 74,358,159            | 147,765,618        | 73,407,459  |     |
| 249                 | 1       | 257,823    | 6,183               | 18,685                | 449,624               | 1,489,555          | 1,039,931   | 1   |
| 1,624               | 65      | 1,742,306  | 3,102               | 77,484                | 2,760,548             | 11,067,886         | 8,307,338   | 2   |
| 197                 | 16      | 151,530    | 2,066               | 40,879                | 559,673               | 1,067,801          | 508,128     | 3   |
| 1,113               | -       | 1,130,881  | 75,996              | 1,110,234             | -                     | 6,930,721          | 6,930,721   | 4   |
| 532                 | 8       | 450,472    | 3,349               | 26,146                | 697,483               | 1,771,297          | 1,073,814   | 5   |
| 1,436               | -       | 1,010,911  | 23,406              | 473,020               | -                     | 3,650,211          | 3,650,211   | 6   |
| 541                 | 85      | 494,140    | 1,551               | 120,742               | 406,441               | 1,690,418          | 1,183,970   | 7   |
| 2,703               | 6       | 3,416,994  | 26,643              | 2,077,317             | 12,241,698            | 29,812,650         | 17,570,952  | 8   |
| 2,066               | 227     | 2,365,072  | 8,384               | 623,612               | 3,155,579             | 8,469,895          | 5,314,316   | 9   |
| 607                 | -       | 468,922    | 6,465               | 483,720               | -                     | 2,394,637          | 2,394,537   | 10  |
| 390                 | 21      | 305,895    | 9,409               | 49,251                | 872,048               | 2,759,709          | 1,887,661   | 11  |
| 3,555               | 7       | 4,664,866  | 31,674              | 3,010,841             | 52,237,387            | 71,697,757         | 19,460,370  | 12  |
| 246                 | 37      | 321,600    | 881                 | 170,023               | -                     | 1,947,551          | 1,947,551   | 13  |
| 64                  | -       | 51,521     | 823                 | 9,422                 | 49,106                | 153,716            | 104,610     | 14  |
| 706                 | 6       | 776,923    | 9,552               | 15,120                | 928,572               | 2,961,914          | 2,033,342   | 15  |
| 7,656               | 2,492   | 9,775,692  | 105,671             | 1,263,465             | 35,276,531            | 95,279,376         | 60,002,845  |     |
| 1,329               | 5       | 1,464,741  | 52,923              | 358,022               | 2,283,076             | 11,357,649         | 9,074,573   | 1   |
| 175                 | 10      | 159,390    | 1,430               | 43,737                | 457,146               | 1,087,215          | 630,069     | 2   |
| 146                 | -       | 159,505    | 341                 | 86,321                | 1,382,425             | 2,114,650          | 732,225     | 3   |
| 786                 | 235     | 883,620    | 5,349               | 110,765               | 2,332,215             | 7,184,574          | 4,852,359   | 4   |
| 561                 | -       | 781,669    | 15,631              | 11,161                | 2,616,333             | 4,006,187          | 1,389,854   | 5   |
| 70                  | 81      | 121,496    | 190                 | 6,127                 | 735,684               | 1,282,175          | 546,491     | 6   |
| 204                 | 6       | 240,333    | 5,808               | 21,054                | 380,795               | 2,504,550          | 2,123,755   | 7   |
| 208                 | 18      | 282,799    | 1,552               | 11,155                | 737,023               | 2,153,632          | 1,416,609   | 8   |
| 820                 | 977     | 1,555,220  | 2,914               | 73,056                | 5,595,117             | 17,573,979         | 11,978,862  | 9   |
| 738                 | 353     | 893,729    | 5,924               | 63,664                | 3,104,208             | 7,996,818          | 4,892,610   | 10  |
| 1,364               | 163     | 1,533,948  | 7,211               | 152,845               | 6,295,860             | 14,912,383         | 8,616,523   | 11  |
| 105                 | 56      | 158,427    | 193                 | 8,906                 | 681,274               | 1,812,603          | 1,131,329   | 12  |
| 902                 | 211     | 1,100,041  | 5,314               | 239,273               | 6,478,638             | 14,739,158         | 8,260,520   | 13  |
| 160                 | 377     | 368,892    | 532                 | 14,456                | 1,876,280             | 5,946,409          | 4,070,129   | 14  |
| 88                  | -       | 71,882     | 359                 | 62,923                | 320,457               | 607,394            | 286,937     | 15  |
| 7,106               | 1,703   | 7,534,217  | 57,283              | 299,162               | 11,984,894            | 33,242,610         | 21,257,716  |     |
| 78                  | 10      | 88,189     | 377                 | 5,055                 | 128,304               | 442,373            | 314,069     | 1   |
| 7                   | 63      | 31,497     | 8                   | 281                   | 40,204                | 117,671            | 77,467      | 2   |
| 43                  | 21      | 48,969     | 46                  | 2,346                 | 74,813                | 185,672            | 110,859     | 3   |
| 827                 | 219     | 705,411    | 1,723               | 20,831                | 1,254,648             | 2,950,076          | 1,695,428   | 4   |
| 217                 | 183     | 261,726    | 581                 | 7,572                 | 281,329               | 991,754            | 710,425     | 5   |
| 44                  | 21      | 53,634     | 40                  | 4,825                 | 187,710               | 395,697            | 207,987     | 6   |
| 158                 | 166     | 232,534    | 591                 | 5,523                 | 695,829               | 1,478,576          | 782,747     | 7   |
| 280                 | 5       | 343,994    | 10,216              | 5,400                 | 79,432                | 1,619,095          | 1,539,663   | 8   |
| 26                  | 29      | 36,187     | 54                  | 2,227                 | 48,437                | 136,146            | 87,709      | 9   |
| 1,025               | 201     | 1,004,379  | 4,181               | 33,873                | 2,326,437             | 4,585,215          | 2,258,778   | 10  |
| 7                   | -       | 10,476     | 51                  | 2,318                 | 413,409               | 1,256,493          | 843,084     | 11  |
| 699                 | 188     | 619,368    | 3,332               | 38,824                | 1,141,198             | 2,561,125          | 1,419,927   | 12  |
| 39                  | 82      | 63,978     | 49                  | 1,415                 | 162,678               | 369,710            | 207,032     | 13  |
| 147                 | 2       | 106,570    | 723                 | 2,656                 | 205,808               | 460,443            | 254,635     | 14  |
| 14                  | 25      | 31,454     | 32                  | 427                   | 32,020                | 110,130            | 78,110      | 15  |
| 397                 | 203     | 614,422    | 3,339               | 50,408                | 1,823,617             | 5,371,239          | 3,547,622   | 16  |
| 2,337               | 4       | 2,426,232  | 30,868              | 97,774                | 1,983,772             | 6,422,588          | 4,438,816   | 17  |
| 229                 | 9       | 273,333    | 107                 | 2,255                 | 175,634               | 1,105,153          | 929,519     | 18  |
| 158                 | 6       | 157,245    | 168                 | 4,172                 | 62,654                | 451,646            | 388,992     | 19  |
| 148                 | 146     | 211,019    | 174                 | 2,897                 | 303,945               | 779,548            | 475,603     | 20  |
| 34                  | 3       | 26,756     | 139                 | 1,182                 | 13,331                | 63,303             | 49,972      | 21  |
| 107                 | 61      | 101,005    | 215                 | 1,263                 | 186,490               | 515,697            | 329,207     | 22  |
| 51                  | 23      | 87,514     | 201                 | 4,295                 | 220,095               | 598,473            | 378,378     | 23  |
| 20                  | 29      | 33,638     | 17                  | 161                   | 114,869               | 203,634            | 88,765      | 24  |
| 14                  | 4       | 14,687     | 51                  | 1,182                 | 28,231                | 71,153             | 42,922      | 25  |
| 8,759               | -       | 11,911,357 | 6,528,533           | 1,833,515             | -                     | 128,420,233        | 128,420,233 |     |



### Subsection 2.—Manufactures Classified by the Purpose of the Products.

**Production of Manufactured Goods According to the Purpose Classification.**—In addition to the classification according to the chief component material of the products, used for the industrial census in detailed presentation, a separate and distinct classification, based on the chief purpose of the products, was applied for the first time to the census returns of 1922 and is presented in Table 8 for the years 1922, 1924, 1927, 1929, 1930 and 1931 in summary form, and for 1932 in more detail.

During the period covered by this table, the gross production of the food industries dropped from 27·1 p.c. of the total for all industries in 1922 to 23·2 p.c. in 1932, while the "drink and tobacco" group during the same period rose from 4·0 p.c. to 5·0 p.c. On the other hand, the percentage of the "clothing" group remained about the same, being 9·5 p.c. in 1922 and 10·0 p.c. in 1932. The "industrial equipment" and "books and stationery" groups advanced respectively from 17·0 p.c. and 4·0 p.c. in 1922 to 20·1 p.c. and 5·3 p.c. The following groups, however, declined in importance: the "producers' materials" group dropped from 26·8 p.c. to 25·8 p.c.; "vehicles and vessels" from 6·5 p.c. to 6·0 p.c.; "house furnishings" from 2·6 p.c. to 2·0 p.c.; and "personal utilities" from 2·3 p.c. to 1·7 p.c.

In analysing the relative standing of the two groups which are perhaps of the greatest interest, it is noted that the gross production of the "food" industries in 1932 was 23·2 p.c. of the output of Canadian manufactures, as compared with an output of only 10·0 p.c. for the "clothing" industries. Aside from the fact that a much larger proportion of its products is exported, the greater production of the "food" group was in part due to the higher cost of raw materials, the value added by manufacture being 16·2 p.c. of the total for all industries in the case of the "food" group and 9·4 p.c. for the "clothing" group. The "clothing" industries also gave employment to 11,021 more persons than the "food" industries, but paid out \$2,276,685 less in salaries and wages.

### 8.—Principal Statistics of the Manufacturing Industries of Canada, Classified According to the Purpose of the Principal Product, by Main Groups for Representative Years 1922-32, and in Detail for 1932.

| Purpose Heading.         | Estab-lish-ments. | Capital.             | Em-ployees     | Salaries and Wages. | Cost of Materials.   | Net Value of Products. | Gross Value of Products. |
|--------------------------|-------------------|----------------------|----------------|---------------------|----------------------|------------------------|--------------------------|
|                          | No.               | \$                   | No.            | \$                  | \$                   | \$                     | \$                       |
| <b>Totals..... 1922.</b> | <b>22,541</b>     | <b>3,214,302,110</b> | <b>424,430</b> | <b>510,431,312</b>  | <b>1,283,774,723</b> | <b>1,198,434,407</b>   | <b>2,482,209,130</b>     |
| Food.....                | 8,256             | 343,867,673          | 66,815         | 67,738,707          | 490,731,433          | 183,062,593            | 673,794,031              |
| Drink and tobacco...     | 496               | 104,047,461          | 13,402         | 13,777,986          | 33,027,203           | 66,502,616             | 99,529,819               |
| Clothing.....            | 1,279             | 175,076,687          | 70,031         | 65,595,519          | 118,749,063          | 117,804,140            | 236,553,193              |
| Personal utilities.....  | 936               | 56,060,282           | 16,904         | 17,080,049          | 21,879,031           | 35,379,445             | 57,258,476               |
| House furnishings.....   | 600               | 75,168,053           | 18,032         | 19,861,883          | 24,956,900           | 38,004,090             | 62,961,050               |
| Books and stationery     | 1,557             | 82,240,691           | 28,103         | 36,920,804          | 27,190,071           | 71,928,898             | 99,118,969               |
| Vehicles and vessels...  | 1,154             | 191,257,804          | 30,067         | 37,237,412          | 87,840,814           | 72,783,265             | 160,624,079              |
| Producers' materials     | 5,588             | 1,086,692,015        | 143,354        | 147,581,011         | 316,400,400          | 349,840,871            | 666,241,271              |
| Industrial equipment     | 2,645             | 1,124,931,330        | 85,953         | 103,576,553         | 160,035,399          | 261,176,425            | 421,211,824              |
| Miscellaneous.....       | 30                | 4,960,434            | 869            | 1,061,388           | 2,964,354            | 1,952,064              | 4,916,418                |
| <b>Totals..... 1924.</b> | <b>22,178</b>     | <b>3,538,813,460</b> | <b>508,503</b> | <b>559,884,045</b>  | <b>1,438,409,681</b> | <b>1,256,643,901</b>   | <b>2,695,053,582</b>     |
| Food.....                | 8,036             | 364,420,646          | 74,721         | 73,119,432          | 515,708,299          | 187,005,602            | 702,713,901              |
| Drink and tobacco...     | 518               | 124,000,298          | 14,702         | 15,748,590          | 39,159,283           | 72,718,494             | 111,877,777              |
| Clothing.....            | 1,956             | 197,041,969          | 81,729         | 75,380,919          | 130,130,048          | 130,813,958            | 260,944,006              |
| Personal utilities.....  | 341               | 48,367,616           | 9,547          | 11,057,386          | 20,304,177           | 21,511,207             | 41,815,384               |
| House furnishings.....   | 587               | 64,787,015           | 15,820         | 17,142,226          | 22,448,984           | 32,495,853             | 54,944,837               |
| Books and stationery     | 1,630             | 100,017,954          | 29,486         | 40,212,100          | 32,360,935           | 74,911,094             | 107,272,029              |
| Vehicles and vessels...  | 1,580             | 205,551,891          | 34,149         | 14,977,607          | 117,515,075          | 77,888,209             | 195,403,284              |
| Producers' materials     | 5,716             | 1,251,962,266        | 163,523        | 176,616,967         | 384,533,201          | 383,226,055            | 767,759,256              |
| Industrial equipment     | 2,204             | 1,149,628,422        | 80,406         | 100,883,940         | 160,470,513          | 264,765,817            | 425,236,330              |
| Miscellaneous.....       | 150               | 33,035,383           | 4,420          | 4,714,828           | 15,779,166           | 11,307,612             | 27,086,778               |



**8.—Principal Statistics of the Manufacturing Industries of Canada, Classified According to the Purpose of the Principal Product, by Main Groups for Representative Years 1922-32, and in Detail for 1932—continued.**

| Purpose Heading.        | Establishments. | Capital.             | Employees.     | Salaries and Wages. | Cost of Materials.   | Net Value of Products. | Gross Value of Products. |
|-------------------------|-----------------|----------------------|----------------|---------------------|----------------------|------------------------|--------------------------|
|                         | No.             | \$                   | No.            | \$                  | £                    | £                      | £                        |
| <b>1927.</b>            |                 |                      |                |                     |                      |                        |                          |
| <b>Totals</b> .....     | <b>22,936</b>   | <b>1,337,631,558</b> | <b>618,933</b> | <b>693,932,228</b>  | <b>1,758,789,331</b> | <b>1,635,923,936</b>   | <b>3,394,713,279</b>     |
| Food.....               | 8,306           | 418,151,619          | 88,967         | 81,722,970          | 586,128,295          | 216,875,935            | 803,004,230              |
| Drink and tobacco...    | 570             | 160,100,581          | 16,278         | 18,312,164          | 52,850,437           | 106,706,731            | 159,557,168              |
| Clothing.....           | 1,988           | 227,438,240          | 97,918         | 91,236,118          | 161,946,983          | 166,769,840            | 323,716,323              |
| Personal utilities..... | 391             | 54,029,497           | 10,754         | 12,758,956          | 26,061,404           | 27,133,729             | 53,195,133               |
| House furnishings.....  | 553             | 63,578,269           | 17,438         | 19,151,982          | 26,474,235           | 36,313,804             | 62,788,039               |
| Books and stationery    | 1,795           | 120,028,624          | 33,732         | 46,913,071          | 38,755,189           | 90,338,506             | 129,093,695              |
| Vehicles and vessels..  | 872             | 279,080,400          | 49,885         | 70,622,546          | 174,846,848          | 124,565,024            | 299,411,872              |
| Producers' materials.   | 5,762           | 1,521,762,956        | 200,335        | 219,116,312         | 450,761,472          | 519,850,940            | 970,612,412              |
| Industrial equipment.   | 2,533           | 1,460,936,792        | 99,200         | 129,147,304         | 224,833,327          | 333,830,379            | 558,363,706              |
| Miscellaneous.....      | 166             | 32,524,580           | 4,428          | 4,950,805           | 16,131,144           | 13,839,548             | 29,970,692               |
| <b>1929.</b>            |                 |                      |                |                     |                      |                        |                          |
| <b>Totals</b> .....     | <b>23,597</b>   | <b>5,083,014,754</b> | <b>694,431</b> | <b>813,049,842</b>  | <b>2,032,020,975</b> | <b>1,997,350,365</b>   | <b>4,029,371,240</b>     |
| Food.....               | 8,351           | 463,984,558          | 94,707         | 87,960,036          | 597,396,238          | 240,590,146            | 837,686,384              |
| Drink and tobacco...    | 599             | 201,365,785          | 18,976         | 21,670,376          | 65,440,053           | 143,528,945            | 208,968,998              |
| Clothing.....           | 2,054           | 250,215,736          | 106,641        | 100,863,405         | 176,130,224          | 186,881,746            | 363,011,970              |
| Personal utilities..... | 380             | 56,155,234           | 11,148         | 13,595,331          | 29,389,246           | 31,802,504             | 61,191,750               |
| House furnishings.....  | 600             | 76,185,921           | 20,857         | 23,248,775          | 34,293,465           | 45,517,866             | 77,811,331               |
| Books and stationery    | 1,917           | 144,222,275          | 38,141         | 56,003,183          | 44,364,362           | 110,565,598            | 155,947,960              |
| Vehicles and vessels..  | 781             | 310,942,038          | 61,835         | 91,239,185          | 243,258,350          | 164,689,298            | 407,947,648              |
| Producers' materials.   | 6,210           | 1,772,309,606        | 222,104        | 257,233,327         | 523,139,599          | 628,251,154            | 1,151,390,753            |
| Industrial equipment.   | 2,600           | 1,774,844,446        | 116,086        | 156,651,963         | 304,581,449          | 433,129,753            | 737,711,202              |
| Miscellaneous.....      | 105             | 32,789,065           | 3,939          | 4,584,261           | 13,007,989           | 14,395,355             | 27,403,344               |
| <b>1930.</b>            |                 |                      |                |                     |                      |                        |                          |
| <b>Totals</b> .....     | <b>24,020</b>   | <b>5,203,316,760</b> | <b>644,439</b> | <b>736,092,766</b>  | <b>1,666,983,902</b> | <b>1,761,986,726</b>   | <b>3,428,970,628</b>     |
| Food.....               | 8,304           | 464,697,907          | 86,279         | 82,930,475          | 507,246,860          | 238,607,556            | 745,854,406              |
| Drink and tobacco...    | 620             | 204,039,846          | 18,365         | 20,635,955          | 53,721,019           | 132,973,381            | 186,694,404              |
| Clothing.....           | 2,017           | 231,366,990          | 94,680         | 87,308,105          | 147,363,887          | 151,514,613            | 298,878,500              |
| Personal utilities..... | 373             | 50,613,454           | 9,445          | 11,423,383          | 23,820,489           | 26,595,608             | 50,416,097               |
| House furnishings.....  | 592             | 74,357,090           | 19,328         | 20,679,759          | 27,037,565           | 38,780,585             | 65,818,150               |
| Books and stationery    | 1,943           | 148,509,793          | 38,222         | 56,396,315          | 43,997,854           | 106,053,275            | 150,051,129              |
| Vehicles and vessels..  | 766             | 306,354,979          | 62,871         | 84,736,739          | 167,308,926          | 144,000,318            | 311,309,214              |
| Producers' materials.   | 6,607           | 1,857,834,835        | 203,750        | 222,057,875         | 429,118,305          | 518,717,241            | 947,835,546              |
| Industrial equipment.   | 2,690           | 1,835,713,531        | 108,510        | 145,855,520         | 256,513,915          | 392,365,334            | 648,879,249              |
| Miscellaneous.....      | 108             | 29,828,335           | 3,583          | 4,068,636           | 10,855,092           | 12,378,815             | 23,233,907               |
| <b>1931</b>             |                 |                      |                |                     |                      |                        |                          |
| <b>Totals</b> .....     | <b>24,501</b>   | <b>4,961,312,408</b> | <b>557,426</b> | <b>624,545,561</b>  | <b>1,223,880,011</b> | <b>1,474,581,851</b>   | <b>2,698,461,862</b>     |
| Food.....               | 8,531           | 444,209,802          | 76,257         | 78,011,998          | 372,123,103          | 210,648,019            | 582,771,122              |
| Drink and tobacco...    | 671             | 191,806,615          | 18,487         | 20,456,318          | 45,094,251           | 108,284,813            | 153,379,064              |
| Clothing.....           | 2,106           | 213,300,836          | 89,388         | 79,522,249          | 125,931,923          | 133,608,066            | 259,539,989              |
| Personal utilities..... | 376             | 44,211,577           | 8,959          | 10,517,796          | 18,930,769           | 24,781,021             | 43,711,790               |
| House furnishings.....  | 612             | 68,433,256           | 17,204         | 17,708,228          | 22,048,506           | 30,003,405             | 52,051,911               |
| Books and stationery    | 2,011           | 143,486,210          | 37,309         | 53,977,715          | 38,349,342           | 95,221,619             | 133,570,961              |
| Vehicles and vessels..  | 691             | 265,252,000          | 49,853         | 60,408,577          | 95,290,128           | 102,846,436            | 198,136,564              |
| Producers' materials.   | 6,662           | 1,675,244,323        | 161,741        | 176,921,090         | 317,204,989          | 414,994,526            | 732,199,515              |
| Industrial equipment.   | 2,721           | 1,890,108,952        | 94,799         | 123,101,966         | 180,565,705          | 341,105,614            | 521,671,319              |
| Miscellaneous.....      | 120             | 25,258,837           | 3,339          | 3,919,624           | 8,341,295            | 13,088,332             | 21,429,627               |
| <b>1932.</b>            |                 |                      |                |                     |                      |                        |                          |
| <b>Totals</b> .....     | <b>24,544</b>   | <b>4,711,255,610</b> | <b>495,398</b> | <b>505,883,323</b>  | <b>955,963,683</b>   | <b>1,170,225,872</b>   | <b>2,126,194,555</b>     |
| Food.....               | 8,481           | 410,855,008          | 72,547         | 69,844,644          | 303,192,616          | 189,356,991            | 492,549,607              |
| Drink and tobacco...    | 683             | 181,932,180          | 18,234         | 18,970,314          | 43,409,438           | 66,241,201             | 109,650,639              |
| Clothing.....           | 2,146           | 172,486,014          | 83,568         | 67,567,959          | 100,328,484          | 110,104,439            | 210,432,923              |
| Personal utilities..... | 403             | 38,870,494           | 8,361          | 8,879,492           | 14,825,620           | 21,070,487             | 35,896,107               |
| House furnishings.....  | 645             | 71,415,662           | 16,271         | 14,590,790          | 16,874,943           | 25,238,823             | 42,113,766               |
| Books and stationery    | 2,075           | 135,048,427          | 34,656         | 46,953,473          | 32,046,536           | 80,517,459             | 112,563,995              |
| Vehicles and vessels..  | 657             | 241,122,892          | 39,613         | 43,360,068          | 57,818,046           | 70,254,000             | 128,072,046              |
| Producers' materials.   | 6,571           | 1,522,863,371        | 179,762        | 135,522,235         | 238,645,276          | 310,264,420            | 548,909,696              |
| Industrial equipment.   | 2,756           | 1,943,356,492        | 79,088         | 96,543,676          | 141,455,794          | 285,870,541            | 427,326,335              |
| Miscellaneous.....      | 124             | 23,305,070           | 3,208          | 3,650,672           | 7,371,930            | 11,307,511             | 18,679,441               |

8.—Principal Statistics of the Manufacturing Industries of Canada, Classified According to the Purpose of the Principal Product, by Main Groups for Representative Years 1922-32, and in Detail for 1932—concluded.

| Purpose Heading.                       | Estab-lish-ments. | Capital.      | Em-ployees. | Salaries and Wages. | Cost of Materials. | Net Value of Products. | Gross Value of Products. |
|----------------------------------------|-------------------|---------------|-------------|---------------------|--------------------|------------------------|--------------------------|
| 1932—DETAIL.                           | No.               | \$            | No.         | \$                  | \$                 | \$                     | \$                       |
| <b>Food</b> .....                      | 8,481             | 410,855,008   | 72,547      | 69,844,644          | 303,192,616        | 189,356,991            | 492,549,607              |
| Breadstuffs.....                       | 4,466             | 167,970,121   | 34,057      | 32,332,242          | 108,299,028        | 81,558,219             | 189,857,247              |
| Fish.....                              | 629               | 17,043,212    | 4,128       | 2,344,164           | 10,263,631         | 6,420,494              | 16,684,125               |
| Fruits and vegetables.....             | 258               | 40,586,892    | 5,954       | 4,056,746           | 15,600,602         | 14,433,935             | 30,034,537               |
| Meats.....                             | 203               | 54,074,028    | 9,487       | 10,704,475          | 66,837,919         | 26,367,241             | 93,205,160               |
| Milk products.....                     | 2,734             | 57,394,575    | 12,653      | 12,188,314          | 55,659,510         | 30,446,292             | 86,105,802               |
| Oils and fats.....                     | 4                 | 90,260        | 19          | 14,373              | 14,516             | 38,746                 | 53,262                   |
| Sugar industries.....                  | 8                 | 37,654,457    | 2,140       | 3,147,753           | 25,716,922         | 15,305,667             | 41,022,589               |
| Infusions.....                         | 63                | 14,191,519    | 1,859       | 2,486,106           | 13,066,931         | 5,947,420              | 19,014,351               |
| Miscellaneous.....                     | 116               | 21,849,944    | 2,250       | 2,570,471           | 7,733,557          | 8,838,977              | 16,572,534               |
| <b>Drink and Tobacco</b> .....         | 683               | 181,932,180   | 18,234      | 18,970,314          | 43,409,438         | 66,241,201             | 109,650,639              |
| Beverages, alcoholic.....              | 96                | 109,340,839   | 5,803       | 7,689,469           | 13,532,051         | 36,029,410             | 49,561,461               |
| Beverages, non-alcoholic.....          | 453               | 20,713,749    | 2,756       | 3,237,502           | 4,337,432          | 9,689,520              | 14,026,952               |
| Tobacco.....                           | 134               | 51,877,592    | 9,675       | 8,043,343           | 25,539,955         | 20,522,271             | 46,062,226               |
| <b>Clothing</b> .....                  | 2,146             | 172,486,014   | 83,568      | 67,567,959          | 100,328,484        | 110,104,439            | 210,432,923              |
| Boots and shoes.....                   | 191               | 22,024,801    | 13,728      | 11,156,856          | 15,753,021         | 16,489,395             | 32,242,416               |
| Fur goods.....                         | 282               | 10,819,357    | 3,216       | 3,471,408           | 6,717,461          | 5,458,888              | 12,176,349               |
| Garments and personal furnishings..... | 891               | 52,800,896    | 32,857      | 26,270,580          | 50,774,879         | 41,966,940             | 92,741,819               |
| Gloves and mittens.....                | 50                | 2,600,603     | 1,504       | 968,510             | 1,259,246          | 1,246,880              | 2,506,126                |
| Hats and caps.....                     | 138               | 6,098,746     | 3,194       | 3,007,728           | 4,562,915          | 5,019,023              | 9,581,938                |
| Knitted goods.....                     | 169               | 52,604,950    | 17,655      | 13,474,974          | 19,349,634         | 23,903,118             | 43,252,752               |
| Waterproofs.....                       | 16                | 643,547       | 244         | 197,462             | 323,742            | 305,002                | 628,744                  |
| Miscellaneous textiles, n.e.s.....     | 409               | 24,893,114    | 11,170      | 9,020,441           | 1,587,586          | 15,715,193             | 17,302,779               |
| <b>Personal Utilities</b> .....        | 403               | 38,870,494    | 8,361       | 8,879,492           | 14,825,620         | 21,070,487             | 35,896,107               |
| Jewellery and time-pieces.....         | 97                | 7,621,127     | 2,242       | 2,385,396           | 2,481,165          | 3,773,852              | 6,255,017                |
| Recreational supplies.....             | 62                | 7,020,026     | 1,774       | 1,559,537           | 1,852,447          | 2,496,924              | 4,349,371                |
| Personal utilities.....                | 244               | 24,229,341    | 4,345       | 4,934,559           | 10,492,008         | 14,799,711             | 25,291,719               |
| <b>House Furnishings</b> .....         | 645               | 71,415,662    | 16,271      | 14,590,790          | 16,874,943         | 25,238,323             | 42,113,766               |
| <b>Books and Stationery</b> .....      | 2,075             | 135,048,427   | 31,656      | 46,953,473          | 32,046,536         | 50,517,459             | 112,563,995              |
| <b>Vehicles and Vessels</b> .....      | 657               | 241,122,892   | 39,613      | 43,360,068          | 57,818,046         | 70,254,000             | 128,072,046              |
| <b>Producers' Materials</b> .....      | 6,571             | 1,522,863,371 | 139,762     | 135,522,235         | 238,645,276        | 310,264,420            | 548,909,696              |
| Farm materials.....                    | 19                | 17,083,478    | 748         | 1,097,812           | 2,616,333          | 1,389,854              | 4,006,187                |
| Manufacturers' materials.....          | 1,093             | 1,184,426,301 | 90,627      | 93,813,711          | 166,759,344        | 234,131,141            | 400,890,485              |
| Building materials.....                | 4,871             | 245,399,444   | 35,084      | 28,308,319          | 48,852,621         | 51,686,590             | 100,539,211              |
| General materials.....                 | 588               | 75,954,058    | 13,303      | 12,303,393          | 20,416,978         | 23,056,835             | 43,473,813               |
| <b>Industrial Equipment</b> .....      | 2,759             | 1,943,356,492 | 79,088      | 96,543,676          | 141,455,794        | 285,870,541            | 427,326,335              |
| Farming equipment.....                 | 54                | 73,771,429    | 2,799       | 3,142,082           | 1,945,540          | 3,720,380              | 5,665,920                |
| Manufacturing equipment.....           | 190               | 58,971,767    | 7,721       | 8,335,430           | 8,032,186          | 15,436,433             | 23,468,619               |
| Trading equipment.....                 | 109               | 9,369,471     | 1,250       | 1,567,615           | 713,824            | 3,493,556              | 4,207,380                |
| Service equipment.....                 | 253               | 29,751,464    | 5,084       | 6,267,053           | 9,022,918          | 18,403,014             | 27,425,932               |
| Light, heat and power equipment.....   | 1,328             | 1,592,464,737 | 38,967      | 52,201,856          | 86,595,059         | 201,455,372            | 288,050,431              |
| General equipment.....                 | 825               | 179,027,624   | 23,267      | 25,029,640          | 35,146,267         | 43,361,786             | 78,508,053               |
| <b>Miscellaneous</b> .....             | 124               | 23,305,070    | 3,298       | 3,650,672           | 7,371,930          | 11,307,511             | 18,679,441               |

### Subsection 3.—Manufactures Classified by Origin of the Materials.

**Classification of Manufacturing Production According to the Origin of the Materials Worked Upon.**—The principal statistics of the manufactures of Canada, classified upon the basis of "origin", are presented in Table 9 for the years 1924, 1927, 1929, 1930, 1931 and 1932. By this means Canadian manufacturing production may be analysed from a new angle, one by means of which interesting comparisons may be made with the external trade classification according to origin.

The distinction made between farm materials of Canadian and foreign origin is based on whether the materials are indigenous to Canada rather than their actual source. Thus, the industries included in the foreign origin classes are those depending upon materials which cannot be grown in Canada such as tea, coffee, spices, cane sugar, rice, rubber, cotton, etc., but it should be understood that industries included in the Canadian origin classes may be using large quantities of imported corn, fruit, tobacco, hides, wool, etc.

While the period reviewed in the following table only covers the short space of the 9 years from 1924 to 1932, interesting changes have taken place in the relative importance of the industries based on materials from the different origins. Since the purpose of such a comparison is to discover the relative importance of the manufacturing work done upon materials from the different origins, the figures of net value of products or the value added to the raw materials by the manufacturing processes will give a more accurate measure of the importance of the industrial groups than the figures of gross value of products.

The values added in the manufacture of materials of farm origin represented 30·8 p.c. of the total value added by manufacture in all industries. This group remained stationary, having advanced but 0·1 p.c. since 1924. The second largest group from the point of view of value added is that of mineral origin which accounted for 28·7 p.c. of the total value in 1932. This group, however, rose in importance, having increased 6·9 p.c. since 1924. The values added by the industries of the forest group which are third in importance declined from 23·8 p.c. of the total in 1924 to 18·9 p.c. in 1932. This was the greatest decline of any group. On the other hand, central electric stations bettered their position, the percentages of the totals being 7·6 in 1924 and 11·0 in 1932. The increase during the period under review in the relative importance of the industries of the mineral group was probably due to a number of influences. The expansion of the motor vehicle industry, the rapid growth in the use of electrical equipment, increasing activity in construction which absorbed large quantities of steel, cement and various other manufactured mineral products, and the development of metallurgical plants in Canada were some factors in the growing importance of the mineral group of industries. Another factor in this trend has been the growing appreciation and development of the wealth of the mineral resources of Canada. Not only have the various mining activities made the raw materials for mineral industries more readily available, but those activities have also required large quantities of machinery, electrical apparatus and other finished products of mineral origin.



In the year 1932, the industries of the farm group exceeded those of any other group in the net value of products with 30.8 p.c. of the total, as compared with 28.7 p.c. for the mineral and 18.9 p.c. for the forest origin groups. These three principal groups stood in the same order of importance with regard to employees engaged, but as regards salaries and wages paid, the mineral group came first, followed by the farm and forest products groups respectively. In the matter of capital invested the mineral group also led with 28.5 p.c. of the total, followed by central electric stations with 28.2 p.c., the forest group with 19.9 p.c., and the farm group with 18.3 p.c.

**9.—Principal Statistics of the Manufacturing Industries of Canada, Classified According to the Origin of the Material Used, by Main Groups for Representative Years 1924-32.**

| Origin.                         | Estab-lish-ments. | Capital.             | Em-ployees.    | Salaries and Wages. | Cost of Materials.   | Net Value of Products. | Gross Value of Products. |
|---------------------------------|-------------------|----------------------|----------------|---------------------|----------------------|------------------------|--------------------------|
|                                 | No.               | \$                   | No.            | \$                  | \$                   | \$                     | \$                       |
| <b>1924.</b>                    |                   |                      |                |                     |                      |                        |                          |
| <b>Totals.....</b>              | <b>22,178</b>     | <b>3,538,813,460</b> | <b>508,503</b> | <b>559,884,045</b>  | <b>1,438,409,681</b> | <b>1,256,643,901</b>   | <b>2,695,053,582</b>     |
| Farm origin—                    |                   |                      |                |                     |                      |                        |                          |
| (a) From field crops..          | 4,595             | 525,717,571          | 89,436         | 87,789,237          | 433,443,376          | 258,069,883            | 691,513,259              |
| Canadian origin...              | 4,311             | 299,158,049          | 51,462         | 53,793,131          | 270,753,367          | 189,716,464            | 440,469,831              |
| Foreign origin....              | 284               | 226,559,522          | 37,974         | 33,996,106          | 162,690,009          | 88,353,419             | 251,043,428              |
| (b) From animal hus-bandry..... | 4,086             | 253,858,982          | 64,671         | 66,696,501          | 285,502,644          | 127,504,777            | 413,007,421              |
| Canadian origin...              | 4,068             | 247,073,900          | 63,052         | 65,424,526          | 282,604,516          | 125,161,890            | 407,766,406              |
| Foreign origin....              | 18                | 6,785,082            | 1,619          | 1,271,975           | 2,898,128            | 2,342,887              | 5,241,015                |
| <b>Totals, Farm Origin..</b>    | <b>8,681</b>      | <b>779,576,553</b>   | <b>154,107</b> | <b>154,485,738</b>  | <b>718,946,020</b>   | <b>385,574,660</b>     | <b>1,104,520,680</b>     |
| Canadian origin...              | 8,379             | 546,231,949          | 114,514        | 119,217,657         | 553,357,883          | 294,878,354            | 848,236,237              |
| Foreign origin....              | 302               | 233,344,604          | 39,593         | 35,268,081          | 165,588,137          | 90,696,306             | 256,284,443              |
| Wild life origin.....           | 226               | 10,837,249           | 2,944          | 3,194,213           | 7,506,169            | 5,880,097              | 13,386,266               |
| Marine origin.....              | 836               | 20,304,785           | 11,157         | 3,344,348           | 16,089,332           | 10,548,630             | 26,637,962               |
| Forest origin.....              | 6,873             | 876,149,932          | 126,907        | 147,719,245         | 245,183,429          | 299,099,163            | 544,282,597              |
| Mineral origin.....             | 2,806             | 1,010,517,944        | 136,837        | 171,068,497         | 349,800,585          | 350,201,512            | 700,002,097              |
| Mixed origin.....               | 1,805             | 212,861,904          | 63,723         | 62,125,420          | 100,884,146          | 110,170,066            | 211,054,212              |
| Central electric stations       | 951               | 628,565,093          | 12,828         | 17,946,584          | —                    | 95,169,768             | 95,169,768               |
| <b>1927.</b>                    |                   |                      |                |                     |                      |                        |                          |
| <b>Totals.....</b>              | <b>22,936</b>     | <b>4,337,631,558</b> | <b>618,933</b> | <b>693,932,228</b>  | <b>1,758,789,334</b> | <b>1,633,923,936</b>   | <b>3,394,713,270</b>     |
| Farm origin—                    |                   |                      |                |                     |                      |                        |                          |
| (a) From field crops..          | 4,977             | 613,855,706          | 104,850        | 103,990,849         | 495,122,606          | 332,027,953            | 827,150,559              |
| Canadian origin...              | 4,683             | 358,813,700          | 58,484         | 58,483,142          | 312,675,963          | 215,539,287            | 528,215,250              |
| Foreign origin....              | 294               | 255,042,006          | 46,366         | 45,507,707          | 182,446,643          | 116,488,666            | 298,935,309              |
| (b) From animal hus-bandry..... | 4,007             | 283,449,879          | 70,131         | 73,587,671          | 336,059,831          | 151,765,691            | 487,825,522              |
| Canadian origin...              | 3,993             | 261,122,061          | 67,241         | 71,247,700          | 332,043,200          | 146,211,405            | 478,254,605              |
| Foreign origin....              | 14                | 22,327,818           | 2,890          | 2,339,971           | 4,016,631            | 5,554,286              | 9,570,917                |
| <b>Totals, Farm Origin..</b>    | <b>8,984</b>      | <b>897,305,585</b>   | <b>174,981</b> | <b>177,578,520</b>  | <b>831,182,437</b>   | <b>483,793,644</b>     | <b>1,314,976,081</b>     |
| Canadian origin...              | 8,676             | 619,935,761          | 125,725        | 129,730,842         | 644,719,163          | 361,750,692            | 1,006,469,855            |
| Foreign origin....              | 308               | 277,369,824          | 49,256         | 47,847,678          | 186,463,274          | 122,042,952            | 308,506,226              |
| Wild life origin.....           | 244               | 14,489,527           | 3,880          | 4,588,689           | 13,462,752           | 9,413,528              | 22,876,280               |
| Marine origin.....              | 773               | 24,454,482           | 16,697         | 5,373,951           | 18,364,846           | 12,719,763             | 31,084,609               |
| Forest origin.....              | 6,770             | 1,020,144,236        | 149,738        | 166,921,448         | 270,764,265          | 355,741,746            | 626,506,011              |
| Mineral origin.....             | 3,232             | 1,268,521,442        | 180,365        | 239,692,970         | 497,368,048          | 528,034,653            | 1,025,402,701            |
| Mixed origin.....               | 1,836             | 245,891,001          | 78,564         | 76,830,335          | 127,646,986          | 142,187,305            | 269,834,291              |
| Central electric stations       | 1,097             | 866,825,285          | 14,708         | 22,946,315          | —                    | 104,033,297            | 104,033,297              |



**9.—Principal Statistics of the Manufacturing Industries of Canada, Classified According to the Origin of the Material Used, by Main Groups for Representative Years 1924-32—continued.**

| Origin.                         | Estab-<br>lish-<br>ments. | Capital.             | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost<br>of<br>Materials. | Net<br>Value of<br>Products. | Gross<br>Value of<br>Products. |
|---------------------------------|---------------------------|----------------------|-----------------|---------------------------|--------------------------|------------------------------|--------------------------------|
|                                 | No.                       | \$                   | No.             | \$                        | \$                       | \$                           | \$                             |
| <b>1929.</b>                    |                           |                      |                 |                           |                          |                              |                                |
| <b>Totals.</b>                  | <b>23,597</b>             | <b>5,083,014,754</b> | <b>694,434</b>  | <b>813,049,842</b>        | <b>2,032,020,975</b>     | <b>1,997,350,365</b>         | <b>1,029,371,340</b>           |
| Farm origin—                    |                           |                      |                 |                           |                          |                              |                                |
| (a) From field crops.           | 5,191                     | 697,206,163          | 114,236         | 115,201,292               | 496,842,580              | 392,232,666                  | 889,075,246                    |
| Canadian origin.                | 4,893                     | 436,282,846          | 67,234          | 67,235,530                | 326,292,523              | 272,019,338                  | 598,311,861                    |
| Foreign origin.                 | 298                       | 260,923,317          | 47,002          | 47,965,762                | 170,550,057              | 120,213,328                  | 290,763,385                    |
| (b) From animal hus-<br>bandry. | 3,873                     | 300,457,360          | 71,818          | 76,931,259                | 361,854,627              | 160,315,776                  | 522,170,403                    |
| Canadian origin.                | 3,850                     | 272,178,703          | 67,446          | 73,105,463                | 355,763,503              | 151,930,820                  | 507,694,323                    |
| Foreign origin.                 | 23                        | 28,278,657           | 4,372           | 3,825,796                 | 6,091,124                | 8,384,956                    | 14,476,080                     |
| <b>Totals, Farm Origin.</b>     | <b>9,064</b>              | <b>997,663,523</b>   | <b>186,054</b>  | <b>192,132,551</b>        | <b>858,697,207</b>       | <b>552,548,442</b>           | <b>1,411,245,649</b>           |
| Canadian origin.                | 8,743                     | 708,461,549          | 134,680         | 140,340,993               | 682,056,026              | 423,950,158                  | 1,106,006,184                  |
| Foreign origin.                 | 321                       | 289,201,974          | 51,374          | 51,791,558                | 176,641,181              | 128,598,284                  | 305,239,465                    |
| Wild life origin.               | 234                       | 14,338,686           | 3,767           | 4,783,323                 | 12,847,817               | 8,013,222                    | 20,861,039                     |
| Marine origin.                  | 730                       | 28,644,442           | 16,367          | 5,411,855                 | 21,496,859               | 13,469,401                   | 34,966,260                     |
| Forest origin.                  | 7,353                     | 1,148,558,242        | 163,863         | 191,044,307               | 313,088,964              | 409,180,102                  | 722,269,066                    |
| Mineral origin.                 | 3,219                     | 1,350,062,908        | 218,879         | 304,027,803               | 678,683,203              | 713,816,665                  | 1,392,499,868                  |
| Mixed origin.                   | 1,973                     | 287,415,421          | 89,340          | 90,818,182                | 147,206,925              | 177,439,087                  | 324,646,012                    |
| Central electric stations       | 1,024                     | 1,055,731,532        | 16,164          | 24,831,821                | —                        | 122,883,446                  | 122,883,446                    |
| <b>1930.</b>                    |                           |                      |                 |                           |                          |                              |                                |
| <b>Totals.</b>                  | <b>24,020</b>             | <b>5,203,316,760</b> | <b>644,439</b>  | <b>736,092,766</b>        | <b>1,666,983,902</b>     | <b>1,761,936,726</b>         | <b>3,428,970,625</b>           |
| Farm origin—                    |                           |                      |                 |                           |                          |                              |                                |
| (a) From field crops.           | 5,227                     | 677,792,694          | 105,592         | 102,726,935               | 405,562,922              | 346,124,426                  | 751,687,348                    |
| Canadian origin.                | 4,935                     | 442,807,092          | 65,376          | 63,794,721                | 279,881,769              | 250,225,715                  | 530,107,484                    |
| Foreign origin.                 | 292                       | 234,985,602          | 40,216          | 38,932,214                | 125,681,153              | 95,898,711                   | 221,579,864                    |
| (b) From animal hus-<br>bandry. | 3,749                     | 288,981,837          | 67,601          | 70,062,906                | 297,742,132              | 155,591,217                  | 453,333,529                    |
| Canadian origin.                | 3,724                     | 258,475,777          | 62,208          | 65,344,316                | 290,108,983              | 145,415,948                  | 435,524,931                    |
| Foreign origin.                 | 25                        | 30,506,060           | 5,393           | 4,718,590                 | 7,633,329                | 10,175,269                   | 17,808,598                     |
| <b>Totals, Farm Origin.</b>     | <b>8,976</b>              | <b>966,774,531</b>   | <b>173,193</b>  | <b>172,789,841</b>        | <b>703,305,234</b>       | <b>501,715,643</b>           | <b>1,205,020,877</b>           |
| Canadian origin.                | 8,659                     | 701,282,869          | 127,584         | 129,139,037               | 569,990,752              | 395,641,663                  | 965,632,415                    |
| Foreign origin.                 | 317                       | 265,491,662          | 45,609          | 43,650,804                | 133,314,482              | 106,073,980                  | 239,388,462                    |
| Wild life origin.               | 226                       | 12,807,807           | 3,437           | 4,272,795                 | 9,768,282                | 7,606,310                    | 17,359,592                     |
| Marine origin.                  | 699                       | 30,827,607           | 10,558          | 4,302,854                 | 21,081,489               | 11,891,819                   | 32,973,308                     |
| Forest origin.                  | 7,713                     | 1,208,835,180        | 153,295         | 168,769,271               | 265,842,844              | 359,708,400                  | 625,551,244                    |
| Mineral origin.                 | 3,400                     | 1,596,294,958        | 205,035         | 280,642,536               | 547,099,544              | 608,097,983                  | 1,159,197,527                  |
| Mixed origin.                   | 1,972                     | 249,576,661          | 81,068          | 78,028,096                | 119,901,509              | 146,928,426                  | 266,829,935                    |
| Central electric stations       | 1,034                     | 1,138,200,016        | 17,858          | 27,287,443                | —                        | 126,038,145                  | 126,038,145                    |
| <b>1931.</b>                    |                           |                      |                 |                           |                          |                              |                                |
| <b>Totals.</b>                  | <b>24,501</b>             | <b>4,961,312,408</b> | <b>557,426</b>  | <b>624,545,561</b>        | <b>1,223,880,011</b>     | <b>1,474,581,851</b>         | <b>2,698,461,862</b>           |
| Farm origin—                    |                           |                      |                 |                           |                          |                              |                                |
| (a) From field crops.           | 5,480                     | 646,509,085          | 97,854          | 95,618,772                | 297,554,312              | 304,333,253                  | 601,887,565                    |
| Canadian origin.                | 5,176                     | 426,592,615          | 61,774          | 61,767,114                | 198,558,986              | 216,955,059                  | 415,514,045                    |
| Foreign origin.                 | 304                       | 219,916,470          | 36,080          | 33,851,658                | 98,995,326               | 87,378,194                   | 186,373,520                    |
| (b) From animal hus-<br>bandry. | 3,813                     | 282,034,749          | 67,575          | 67,019,011                | 230,302,849              | 133,448,593                  | 363,751,442                    |
| Canadian origin.                | 3,795                     | 249,829,542          | 61,302          | 61,260,016                | 223,820,652              | 121,743,298                  | 345,563,950                    |
| Foreign origin.                 | 23                        | 32,205,207           | 6,273           | 5,758,995                 | 6,482,197                | 11,705,295                   | 18,187,492                     |
| <b>Totals, Farm Origin.</b>     | <b>9,298</b>              | <b>928,543,834</b>   | <b>165,429</b>  | <b>162,637,783</b>        | <b>527,857,161</b>       | <b>437,781,846</b>           | <b>965,639,007</b>             |
| Canadian origin.                | 8,971                     | 676,422,157          | 123,076         | 123,027,130               | 422,379,638              | 338,698,357                  | 761,077,995                    |
| Foreign origin.                 | 327                       | 252,121,677          | 42,353          | 39,610,653                | 105,477,523              | 99,083,489                   | 204,561,012                    |
| Wild life origin.               | 279                       | 13,212,426           | 3,636           | 4,260,161                 | 8,856,762                | 6,961,971                    | 15,818,733                     |
| Marine origin.                  | 662                       | 19,085,513           | 4,268           | 2,761,423                 | 11,930,834               | 6,906,059                    | 18,826,893                     |
| Forest origin.                  | 7,668                     | 1,042,195,805        | 118,638         | 135,553,459               | 190,406,914              | 284,850,613                  | 475,257,527                    |
| Mineral origin.                 | 3,539                     | 1,493,824,301        | 171,878         | 221,522,345               | 382,280,998              | 483,731,367                  | 866,012,305                    |
| Mixed origin.                   | 2,044                     | 234,461,578          | 76,563          | 71,503,434                | 102,557,342              | 132,039,325                  | 234,596,067                    |
| Central electric stations       | 1,011                     | 1,229,988,951        | 17,014          | 26,306,956                | —                        | 122,310,730                  | 122,310,730                    |

**9.—Principal Statistics of the Manufacturing Industries of Canada, Classified According to the Origin of the Material Used, by Main Groups for Representative Years 1924-32—concluded.**

| Origin.                             | Estab-<br>lish-<br>ments. | Capital.             | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost<br>of<br>Materials. | Net<br>Value of<br>Products. | Gross<br>Value of<br>Products. |
|-------------------------------------|---------------------------|----------------------|-----------------|---------------------------|--------------------------|------------------------------|--------------------------------|
|                                     | No.                       | \$                   | No.             | \$                        | \$                       | \$                           | \$                             |
| <b>1932.</b>                        |                           |                      |                 |                           |                          |                              |                                |
| <b>Totals.....</b>                  | <b>24,544</b>             | <b>4,741,255,610</b> | <b>495,398</b>  | <b>505,883,323</b>        | <b>955,968,683</b>       | <b>1,170,225,872</b>         | <b>2,126,194,555</b>           |
| Farm origin—                        |                           |                      |                 |                           |                          |                              |                                |
| (a) From field crops.....           | 5,437                     | 613,405,860          | 91,607          | 85,648,705                | 255,777,175              | 239,714,210                  | 495,491,385                    |
| Canadian origin....                 | 5,128                     | 398,278,659          | 58,086          | 55,021,503                | 173,614,500              | 161,296,268                  | 334,910,858                    |
| Foreign origin.....                 | 309                       | 215,127,201          | 33,521          | 30,627,202                | 82,162,585               | 78,417,942                   | 160,580,527                    |
| (b) From animal hus-<br>bandry..... | 3,914                     | 252,525,128          | 67,730          | 61,023,284                | 184,149,290              | 121,251,626                  | 305,400,916                    |
| Canadian origin....                 | 3,890                     | 224,593,716          | 60,694          | 55,266,419                | 176,291,186              | 109,244,887                  | 285,536,073                    |
| Foreign origin....                  | 24                        | 28,021,412           | 7,036           | 5,756,865                 | 7,858,104                | 12,006,739                   | 19,864,843                     |
| <b>Totals, Farm Origin..</b>        | <b>9,351</b>              | <b>865,930,988</b>   | <b>159,337</b>  | <b>146,671,989</b>        | <b>439,926,465</b>       | <b>360,965,836</b>           | <b>890,892,301</b>             |
| Canadian origin.....                | 9,018                     | 622,782,375          | 118,780         | 110,287,922               | 349,905,776              | 270,541,155                  | 620,446,931                    |
| Foreign origin.....                 | 333                       | 243,148,613          | 40,557          | 36,384,067                | 90,020,689               | 90,424,681                   | 180,445,370                    |
| Wild life origin.....               | 282                       | 10,819,357           | 3,216           | 3,471,408                 | 6,717,461                | 5,458,888                    | 12,176,349                     |
| Marine origin.....                  | 629                       | 17,043,212           | 4,128           | 2,344,164                 | 10,263,631               | 6,420,494                    | 16,684,125                     |
| Forest origin.....                  | 7,737                     | 944,102,015          | 105,168         | 108,539,369               | 140,775,506              | 221,515,679                  | 362,291,185                    |
| Mineral origin.....                 | 3,463                     | 1,351,875,842        | 136,536         | 160,187,382               | 276,036,385              | 335,938,499                  | 611,974,884                    |
| Mixed origin.....                   | 2,049                     | 215,597,209          | 71,618          | 61,407,845                | 82,249,235               | 111,506,243                  | 193,755,478                    |
| Central electric stations           | 1,033                     | 1,335,886,987        | 15,395          | 23,261,166                | —                        | 128,420,233                  | 128,420,233                    |

**Subsection 4.—The Forty Leading Manufacturing Industries.**

There was a number of significant changes in the ranking of the ten leading industries in 1932, aside from the appreciable decreases in production, employment, etc. Tables 10, 11 and 12 which follow show the forty leading industries for 1932 ranked according to the gross value of products, the net value of products, and the salaries and wages paid, respectively.

**The Forty Leading Industries in 1933.**—The completion of part of the compilation of the Census of Manufactures for 1933 permits of the inclusion as Table 10A of the forty leading industries classified according to gross value of production for that year. In the following statement the ten leading industries for 1933 are compared as to their respective ranks in 1933, 1932 and 1931:—

**THE TEN LEADING INDUSTRIES, 1933, COMPARED AS TO RANK FOR THE YEARS 1933, 1932 AND 1931.**

| Industry.                            | Rank in<br>1933. | Rank in<br>1932. | Rank in<br>1931. |
|--------------------------------------|------------------|------------------|------------------|
| Pulp and paper.....                  | 1                | 1                | 1                |
| Central electric stations.....       | 2                | 2                | 2                |
| Non-ferrous metal smelting.....      | 3                | 6                | 4                |
| Slaughtering and meat packing.....   | 4                | 3                | 3                |
| Flour and feed mills.....            | 5                | 4                | 5                |
| Butter and cheese.....               | 6                | 5                | 6                |
| Petroleum products.....              | 7                | 7                | 8                |
| Bread and other bakery products..... | 8                | 9                | 12               |
| Cotton yarn and cloth.....           | 9                | 16               | 22               |
| Printing and publishing.....         | 10               | 8                | 11               |

The outstanding change has been in the cotton yarn and cloth industry which was in twenty-second place in 1931, sixteenth in 1932 and has taken ninth place in 1933, having displaced the railway rolling-stock industry which was in tenth place in 1931 but is now in twenty-fourth (see Table 10A).

**19.—Principal Statistics of the Forty Leading Industries of Canada, Ranked According to Gross Value of the Products, 1932.**

| No.                                                                             | Industry.                                                | Estab-<br>lish-<br>ments. | Capital.             | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost<br>of<br>Materials. | Value of Products.   |                      |
|---------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------|----------------------|-----------------|---------------------------|--------------------------|----------------------|----------------------|
|                                                                                 |                                                          |                           |                      |                 |                           |                          | Net.                 | Gross.               |
|                                                                                 |                                                          | No.                       | \$                   | No.             | \$                        | \$                       | \$                   | \$                   |
| 1                                                                               | Pulp and paper.....                                      | 98                        | 597,550,013          | 24,561          | 28,348,128                | 48,970,967               | 86,677,762           | 135,648,729          |
| 2                                                                               | Central electric sta-<br>tions.....                      | 1,033                     | 1,335,886,987        | 15,395          | 23,261,166                | -                        | 128,420,233          | 128,420,233          |
| 3                                                                               | Slaughtering and<br>meat packing.....                    | 141                       | 53,227,929           | 9,101           | 10,349,315                | 64,575,957               | 25,670,566           | 91,246,523           |
| 4                                                                               | Flour and feed mills.....                                | 1,290                     | 58,283,212           | 5,586           | 5,576,395                 | 63,177,656               | 21,571,144           | 84,748,890           |
| 5                                                                               | Butter and cheese.....                                   | 2,708                     | 50,924,744           | 11,908          | 11,219,366                | 51,768,536               | 26,944,369           | 78,712,905           |
| 6                                                                               | Non-ferrous metal<br>smelting.....                       | 13                        | 149,708,860          | 5,343           | 8,778,970                 | 37,719,947               | 38,722,129           | 76,442,076           |
| 7                                                                               | Petroleum products.....                                  | 31                        | 69,475,860           | 4,116           | 5,980,681                 | 52,237,387               | 19,460,370           | 71,697,757           |
| 8                                                                               | Printing and publish-<br>ing.....                        | 762                       | 61,156,728           | 15,911          | 23,406,606                | 11,193,930               | 43,618,818           | 54,812,748           |
| 9                                                                               | Bread and other bak-<br>ery products.....                | 2,861                     | 48,961,175           | 16,856          | 15,909,805                | 23,431,275               | 30,019,077           | 53,450,352           |
| 10                                                                              | Electrical apparatus<br>and supplies.....                | 169                       | 82,458,754           | 14,305          | 16,262,368                | 20,414,844               | 32,850,074           | 53,264,914           |
| 11                                                                              | Automobiles.....                                         | 25                        | 49,641,777           | 8,810           | 11,435,741                | 28,278,809               | 15,522,580           | 43,801,389           |
| 12                                                                              | Hosiery and knitted<br>goods.....                        | 169                       | 52,604,950           | 17,655          | 13,474,974                | 19,349,634               | 23,903,118           | 43,252,752           |
| 13                                                                              | Clothing, factory,<br>women's.....                       | 461                       | 18,147,033           | 14,276          | 12,117,879                | 23,983,585               | 18,581,004           | 42,564,589           |
| 14                                                                              | Sugar refineries.....                                    | 8                         | 37,654,457           | 2,140           | 3,147,753                 | 25,716,922               | 15,305,667           | 41,022,589           |
| 15                                                                              | Rubber goods, in-<br>cluding footwear.....               | 47                        | 65,794,903           | 10,325          | 9,340,911                 | 11,906,696               | 28,840,214           | 40,746,910           |
| 16                                                                              | Cotton yarn and<br>cloth.....                            | 35                        | 72,504,504           | 15,092          | 11,684,979                | 19,158,046               | 19,397,324           | 38,555,370           |
| 17                                                                              | Sawmills.....                                            | 3,593                     | 80,796,425           | 18,285          | 80,761,090                | 23,405,576               | 15,101,071           | 38,506,647           |
| 18                                                                              | Breweries.....                                           | 75                        | 57,398,055           | 4,353           | 5,932,225                 | 10,210,482               | 28,001,710           | 38,212,192           |
| 19                                                                              | Biscuits, confection-<br>ery, cocoa, etc.....            | 262                       | 45,402,886           | 10,526          | 9,425,498                 | 15,594,694               | 21,791,399           | 37,386,093           |
| 20                                                                              | Tobacco, cigars and<br>cigarettes.....                   | 116                       | 42,351,650           | 8,236           | 7,127,070                 | 18,787,261               | 18,574,520           | 37,361,781           |
| 21                                                                              | Railway rolling-<br>stock.....                           | 38                        | 87,289,160           | 15,612          | 17,460,142                | 14,101,765               | 18,363,427           | 32,465,192           |
| 22                                                                              | Boots and shoes.....                                     | 191                       | 22,024,801           | 13,728          | 11,156,856                | 15,753,021               | 16,489,395           | 32,242,416           |
| 23                                                                              | Printing and book-<br>binding.....                       | 1,055                     | 39,451,964           | 11,679          | 13,874,016                | 10,967,767               | 20,302,719           | 31,270,486           |
| 24                                                                              | Fruit and vegetable<br>preparations.....                 | 258                       | 40,586,922           | 5,954           | 4,056,746                 | 15,600,602               | 14,433,935           | 30,034,537           |
| 25                                                                              | Coke and gas pro-<br>ducts.....                          | 42                        | 93,534,495           | 3,639           | 4,897,746                 | 12,241,698               | 17,570,952           | 29,812,650           |
| 26                                                                              | Castings and forgings.....                               | 322                       | 79,225,330           | 12,452          | 11,821,243                | 9,825,439                | 19,459,705           | 29,285,144           |
| 27                                                                              | Sheet metal products.....                                | 157                       | 51,671,470           | 6,372           | 6,756,826                 | 14,831,672               | 13,054,627           | 27,886,299           |
| 28                                                                              | Clothing, factory,<br>men's.....                         | 163                       | 16,434,448           | 8,098           | 7,269,994                 | 15,262,351               | 12,027,240           | 27,289,591           |
| 29                                                                              | Machinery.....                                           | 179                       | 57,753,031           | 7,191           | 7,894,912                 | 7,731,233                | 14,538,962           | 22,270,195           |
| 30                                                                              | Silk and artificial<br>silk.....                         | 24                        | 28,021,412           | 7,036           | 5,756,865                 | 7,858,104                | 12,006,739           | 19,864,843           |
| 31                                                                              | Coffee, tea and spices.....                              | 63                        | 14,191,519           | 1,859           | 2,486,106                 | 13,066,931               | 5,947,420            | 19,014,351           |
| 32                                                                              | Furniture.....                                           | 380                       | 30,910,489           | 8,348           | 6,882,087                 | 5,921,666                | 12,077,176           | 17,998,842           |
| 33                                                                              | Furnishing goods,<br>men's.....                          | 153                       | 13,880,827           | 7,565           | 4,969,615                 | 9,653,947                | 7,953,709            | 17,607,656           |
| 34                                                                              | Medicinal and phar-<br>maceutical prepar-<br>ations..... | 151                       | 18,379,601           | 2,959           | 3,833,778                 | 5,595,117                | 11,978,862           | 17,573,979           |
| 35                                                                              | Dyeing, cleaning and<br>laundry work.....                | 409                       | 24,893,114           | 11,170          | 9,020,441                 | 1,587,586                | 15,715,193           | 17,302,779           |
| 36                                                                              | Boxes and bags,<br>paper.....                            | 126                       | 20,110,391           | 4,654           | 4,412,048                 | 8,787,604                | 8,238,835            | 17,026,439           |
| 37                                                                              | Fish curing and pack-<br>ing.....                        | 629                       | 17,043,212           | 4,128           | 2,344,164                 | 10,263,631               | 6,420,494            | 16,684,125           |
| 38                                                                              | Primary iron and<br>steel.....                           | 52                        | 96,323,629           | 4,847           | 6,131,057                 | 6,289,483                | 9,908,043            | 16,197,526           |
| 39                                                                              | Planing mills.....                                       | 659                       | 37,434,946           | 6,290           | 5,514,957                 | 8,073,672                | 7,426,587            | 15,500,259           |
| 40                                                                              | Paints, pigments and<br>varnishes.....                   | 71                        | 23,978,252           | 2,658           | 3,858,813                 | 6,295,860                | 8,616,523            | 14,912,383           |
| <b>Totals, Forty Lead-<br/>ing Industries.....</b>                              |                                                          | <b>19,019</b>             | <b>3,843,069,485</b> | <b>379,019</b>  | <b>383,939,332</b>        | <b>770,591,353</b>       | <b>911,503,692</b>   | <b>1,682,095,045</b> |
| <b>Totals, All Indus-<br/>tries.....</b>                                        |                                                          | <b>24,544</b>             | <b>4,741,255,610</b> | <b>495,398</b>  | <b>505,883,323</b>        | <b>955,968,683</b>       | <b>1,170,225,872</b> | <b>2,126,194,555</b> |
| Percentages of the<br>forty leading in-<br>dustries to all in-<br>dustries..... |                                                          | 77.5                      | 81.1                 | 76.5            | 75.9                      | 80.6                     | 77.9                 | 79.1                 |



**10A.—Principal Statistics of the Forty Leading Industries of Canada, Ranked According to Gross Value of the Products, 1933.**

| No.                                                                   | Industry.                                                 | Estab-<br>lish-<br>ments. | Capital.      | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost of<br>Materials. | Value of Products. |               |
|-----------------------------------------------------------------------|-----------------------------------------------------------|---------------------------|---------------|-----------------|---------------------------|-----------------------|--------------------|---------------|
|                                                                       |                                                           | No.                       | \$            | No.             | \$                        | \$                    | Net.               | Gross.        |
| 1                                                                     | Pulp and paper.....                                       | 95                        | 559,265,544   | 24,037          | 26,591,049                | 47,632,521            | 75,782,971         | 123,415,492   |
| 2                                                                     | Central electric sta-<br>tions.....                       | 1,041                     | 1,386,532,055 | 14,717          | 21,431,877                | —                     | 117,532,081        | 117,532,081   |
| 3                                                                     | Non-ferrous metal<br>smelting.....                        | 15                        | 146,085,284   | 6,360           | 8,403,181                 | 43,242,563            | 57,318,734         | 100,561,297   |
| 4                                                                     | Slaughtering and<br>meat packing.....                     | 135                       | 54,590,398    | 9,289           | 10,103,744                | 70,467,544            | 21,898,593         | 92,366,137    |
| 5                                                                     | Flour and feed mills.....                                 | 1,328                     | 59,054,505    | 5,470           | 5,108,137                 | 63,297,848            | 20,024,251         | 83,322,069    |
| 6                                                                     | Butter and cheese.....                                    | 2,693                     | 57,849,628    | 13,145          | 12,541,035                | 54,482,522            | 25,913,365         | 80,395,887    |
| 7                                                                     | Petroleum products.....                                   | 47                        | 68,193,854    | 4,628           | 6,141,945                 | 49,187,757            | 21,080,508         | 70,268,265    |
| 8                                                                     | Bread and other bak-<br>ery products.....                 | 3,073                     | 45,091,801    | 17,477          | 14,900,212                | 23,427,623            | 27,816,539         | 51,244,162    |
| 9                                                                     | Cotton yarn and<br>cloth.....                             | 37                        | 75,422,396    | 16,095          | 11,749,286                | 26,456,914            | 24,722,714         | 51,179,628    |
| 10                                                                    | Printing and publish-<br>ing.....                         | 768                       | 58,234,531    | 15,964          | 21,479,504                | 9,791,679             | 41,020,289         | 50,811,968    |
| 11                                                                    | Clothing, factory,<br>women's.....                        | 540                       | 18,132,022    | 15,264          | 11,828,978                | 25,885,073            | 18,650,750         | 44,535,823    |
| 12                                                                    | Automobiles.....                                          | 22                        | 40,000,559    | 8,134           | 8,557,331                 | 28,730,750            | 14,154,893         | 42,885,643    |
| 13                                                                    | Rubber goods, in-<br>cluding footwear.....                | 45                        | 65,314,472    | 9,758           | 8,910,124                 | 12,914,680            | 28,596,876         | 41,511,556    |
| 14                                                                    | Hosiery and knitted<br>goods.....                         | 170                       | 49,485,772    | 17,159          | 12,610,093                | 19,473,785            | 21,523,425         | 40,997,210    |
| 15                                                                    | Sawmills.....                                             | 3,517                     | 74,304,090    | 17,779          | 10,040,165                | 22,870,710            | 16,567,347         | 39,438,057    |
| 16                                                                    | Sugar refineries.....                                     | 8                         | 35,758,074    | 2,092           | 3,048,817                 | 22,846,473            | 14,343,487         | 37,189,960    |
| 17                                                                    | Electrical apparatus<br>and supplies.....                 | 174                       | 80,844,131    | 11,767          | 12,428,430                | 14,504,269            | 22,508,240         | 37,012,509    |
| 18                                                                    | Tobacco, cigars and<br>cigarettes.....                    | 127                       | 50,218,586    | 8,241           | 6,752,159                 | 17,974,715            | 18,809,947         | 36,784,662    |
| 19                                                                    | Biscuits, confection-<br>ery, cocoa, etc.....             | 236                       | 41,410,901    | 9,891           | 8,114,234                 | 15,725,547            | 19,450,547         | 35,176,094    |
| 20                                                                    | Boots and shoes.....                                      | 205                       | 22,963,783    | 14,526          | 10,509,461                | 16,347,068            | 15,944,024         | 32,291,092    |
| 21                                                                    | Breweries.....                                            | 74                        | 57,337,361    | 4,156           | 5,309,527                 | 9,398,599             | 21,542,296         | 30,940,895    |
| 22                                                                    | Fruit and vegetable<br>preparations.....                  | 273                       | 37,286,824    | 6,530           | 3,842,575                 | 16,461,755            | 13,519,645         | 29,981,400    |
| 23                                                                    | Coke and gas pro-<br>ducts.....                           | 42                        | 94,225,476    | 3,526           | 4,606,308                 | 12,729,075            | 17,207,900         | 29,936,975    |
| 24                                                                    | Railway rolling-<br>stock.....                            | 37                        | 86,509,047    | 16,172          | 14,584,021                | 13,574,592            | 16,097,673         | 29,672,265    |
| 25                                                                    | Printing and book-<br>binding.....                        | 1,122                     | 38,860,669    | 11,271          | 12,277,207                | 9,694,048             | 18,516,028         | 28,210,076    |
| 26                                                                    | Clothing, factory,<br>men's.....                          | 163                       | 14,954,100    | 7,969           | 6,547,993                 | 15,643,813            | 10,978,876         | 26,622,689    |
| 27                                                                    | Sheet metal products.....                                 | 172                       | 53,851,889    | 6,000           | 6,033,783                 | 13,828,178            | 12,135,650         | 25,963,828    |
| 28                                                                    | Castings and forgings.....                                | 327                       | 72,810,073    | 11,111          | 9,816,895                 | 8,053,094             | 16,144,253         | 24,197,347    |
| 29                                                                    | Silk and artificial<br>silk.....                          | 29                        | 30,192,870    | 7,801           | 6,138,532                 | 7,795,542             | 14,959,427         | 22,754,969    |
| 30                                                                    | Coffee, tea and spices.....                               | 67                        | 14,004,437    | 1,885           | 2,376,270                 | 14,041,869            | 5,877,775          | 19,919,644    |
| 31                                                                    | Furnishing goods,<br>men's.....                           | 163                       | 14,280,349    | 8,189           | 4,884,635                 | 10,784,990            | 8,297,581          | 19,082,571    |
| 32                                                                    | Machinery.....                                            | 189                       | 53,167,815    | 6,317           | 6,575,848                 | 6,787,924             | 12,125,002         | 18,912,926    |
| 33                                                                    | Primary iron and<br>steel.....                            | 50                        | 96,444,846    | 5,200           | 6,049,189                 | 7,598,931             | 10,893,618         | 18,492,549    |
| 34                                                                    | Boxes and bags,<br>paper.....                             | 132                       | 20,111,982    | 4,914           | 4,558,177                 | 9,568,160             | 8,232,170          | 17,800,330    |
| 35                                                                    | Fish curing and pack-<br>ing.....                         | 620                       | 15,532,775    | 4,064           | 2,287,385                 | 10,960,289            | 6,420,034          | 17,380,323    |
| 36                                                                    | Medicinal and phar-<br>macological prepar-<br>ations..... | 158                       | 17,402,705    | 3,169           | 3,850,928                 | 5,774,391             | 11,289,458         | 17,063,849    |
| 37                                                                    | Leather tanneries.....                                    | 88                        | 22,307,727    | 3,322           | 3,247,296                 | 9,753,096             | 6,722,287          | 16,475,383    |
| 38                                                                    | Woolen cloth.....                                         | 62                        | 22,231,585    | 5,542           | 4,471,491                 | 8,600,500             | 7,392,614          | 15,893,114    |
| 39                                                                    | Dyeing, cleaning and<br>laundry work.....                 | 411                       | 23,581,811    | 10,528          | 7,882,389                 | 1,399,646             | 13,840,335         | 15,239,981    |
| 40                                                                    | Furniture.....                                            | 383                       | 27,089,361    | 7,722           | 5,656,006                 | 5,267,902             | 9,749,040          | 15,016,942    |
| <b>Totals, Forty Lead-<br/>ing Industries.</b>                        |                                                           | 18,838                    | 3,800,936,088 | 377,181         | 352,246,217               | 782,876,435           | 865,601,243        | 1,648,477,678 |
| <b>Totals, all Indus-<br/>tries.</b>                                  |                                                           | 25,232                    | 4,689,373,704 | 493,903         | 463,562,090               | 969,188,574           | 1,117,659,273      | 2,086,847,847 |
| Percentages of the<br>forty leading indus-<br>tries to all industries |                                                           | 74.7                      | 81.1          | 76.4            | 75.7                      | 80.8                  | 77.4               | 79.0          |



# 11.—Principal Statistics of the Forty Leading Industries of Canada, Ranked According to Net Value of the Products, 1932.

| No.                                                                   | Industry.                                                | Estab-<br>lish-<br>ments. | Capital.             | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost<br>of<br>Materials. | Value of Products.   |                      |
|-----------------------------------------------------------------------|----------------------------------------------------------|---------------------------|----------------------|-----------------|---------------------------|--------------------------|----------------------|----------------------|
|                                                                       |                                                          | No.                       | \$                   | No.             | \$                        | \$                       | Net.                 | Gross.               |
| 1                                                                     | Central electric sta-<br>tions.....                      | 1,033                     | 1,335,886,987        | 15,395          | 23,261,166                | —                        | 128,420,233          | 128,420,233          |
| 2                                                                     | Pulp and paper.....                                      | 98                        | 597,550,013          | 24,561          | 28,348,128                | 48,970,967               | 86,677,762           | 135,648,729          |
| 3                                                                     | Printing and publish-<br>ing.....                        | 762                       | 61,156,728           | 15,911          | 23,406,606                | 11,193,930               | 43,618,818           | 54,812,748           |
| 4                                                                     | Non-ferrous metal<br>smelting and refin-<br>ing.....     | 13                        | 149,708,860          | 5,343           | 8,778,970                 | 37,719,947               | 38,722,129           | 76,442,076           |
| 5                                                                     | Electrical apparatus<br>and supplies.....                | 169                       | 82,458,754           | 14,305          | 16,262,368                | 20,414,844               | 32,850,074           | 53,264,918           |
| 6                                                                     | Bread and other bak-<br>ery products.....                | 2,861                     | 48,961,175           | 16,856          | 15,909,805                | 23,431,275               | 30,019,077           | 53,450,352           |
| 7                                                                     | Rubber goods, in-<br>cluding footwear.....               | 47                        | 65,794,903           | 10,325          | 9,340,911                 | 11,906,696               | 28,840,214           | 40,746,910           |
| 8                                                                     | Breweries.....                                           | 75                        | 57,398,055           | 4,353           | 5,932,225                 | 10,210,482               | 28,001,710           | 38,212,192           |
| 9                                                                     | Butter and cheese.....                                   | 2,708                     | 50,924,744           | 11,908          | 11,219,366                | 51,768,536               | 26,944,369           | 78,712,905           |
| 10                                                                    | Slaughtering and<br>meat packing.....                    | 141                       | 53,227,929           | 9,101           | 10,349,315                | 65,575,957               | 25,670,566           | 91,246,523           |
| 11                                                                    | Hosiery and knitted<br>goods.....                        | 169                       | 52,604,950           | 17,655          | 13,474,974                | 19,349,634               | 23,903,118           | 43,252,752           |
| 12                                                                    | Biscuits, confection-<br>ery, cocoa, etc.....            | 262                       | 45,402,886           | 10,526          | 9,425,498                 | 15,594,694               | 21,791,399           | 37,386,093           |
| 13                                                                    | Flour and feed mills.                                    | 1,290                     | 58,283,212           | 5,586           | 5,576,395                 | 63,177,656               | 21,571,144           | 84,748,800           |
| 14                                                                    | Printing and book-<br>binding.....                       | 1,055                     | 39,451,964           | 11,679          | 13,874,016                | 10,967,767               | 20,302,719           | 31,270,486           |
| 15                                                                    | Petroleum products.                                      | 31                        | 69,475,860           | 4,116           | 5,980,681                 | 52,227,387               | 19,460,370           | 71,697,757           |
| 16                                                                    | Castings and forgings                                    | 322                       | 79,225,330           | 12,452          | 11,821,243                | 9,825,439                | 19,459,705           | 29,285,144           |
| 17                                                                    | Cotton yarn and<br>cloth.....                            | 35                        | 72,504,504           | 15,092          | 11,684,979                | 19,158,046               | 19,397,324           | 38,555,370           |
| 18                                                                    | Clothing, factory,<br>women's.....                       | 461                       | 18,147,033           | 14,276          | 12,117,879                | 23,983,585               | 18,581,004           | 42,564,589           |
| 19                                                                    | Tobacco, cigars and<br>cigarettes.....                   | 116                       | 42,351,650           | 8,236           | 7,127,070                 | 18,787,261               | 18,574,520           | 37,361,781           |
| 20                                                                    | Railway rolling-stock                                    | 38                        | 87,289,160           | 15,612          | 17,460,142                | 14,101,765               | 18,363,427           | 32,465,192           |
| 21                                                                    | Coke and gas pro-<br>ducts.....                          | 42                        | 93,534,495           | 3,639           | 4,897,746                 | 12,241,698               | 17,570,952           | 29,812,650           |
| 22                                                                    | Boots and shoes.....                                     | 121                       | 22,024,801           | 13,728          | 11,156,856                | 15,753,021               | 16,489,395           | 32,242,416           |
| 23                                                                    | Dyeing, cleaning and<br>laundry work.....                | 409                       | 24,893,114           | 11,170          | 9,020,441                 | 1,587,586                | 15,715,193           | 17,302,779           |
| 24                                                                    | Automobiles.....                                         | 25                        | 49,641,777           | 8,810           | 11,435,741                | 28,278,809               | 15,522,580           | 43,801,389           |
| 25                                                                    | Sugar refineries.....                                    | 8                         | 37,654,457           | 2,140           | 3,147,753                 | 25,716,922               | 15,305,667           | 41,022,589           |
| 26                                                                    | Sawmills.....                                            | 3,593                     | 80,796,425           | 18,285          | 10,761,090                | 23,405,576               | 15,101,071           | 38,506,647           |
| 27                                                                    | Machinery.....                                           | 179                       | 57,753,031           | 7,191           | 7,894,912                 | 7,731,233                | 14,538,962           | 22,270,195           |
| 28                                                                    | Fruit and vegetable<br>preparations.....                 | 258                       | 40,586,892           | 5,954           | 4,056,746                 | 15,600,602               | 14,433,935           | 30,034,537           |
| 29                                                                    | Sheet metal products                                     | 157                       | 51,671,470           | 6,372           | 6,756,826                 | 14,831,672               | 13,054,627           | 27,886,299           |
| 30                                                                    | Furniture.....                                           | 380                       | 30,910,489           | 8,348           | 6,882,087                 | 5,921,666                | 12,077,176           | 17,998,842           |
| 31                                                                    | Clothing, factory,<br>men's.....                         | 163                       | 16,434,048           | 8,098           | 7,269,994                 | 15,262,351               | 12,027,240           | 27,289,591           |
| 32                                                                    | Silk and artificial<br>silk.....                         | 24                        | 28,021,412           | 7,036           | 5,756,865                 | 7,858,104                | 12,006,739           | 19,864,843           |
| 33                                                                    | Medicinal and phar-<br>maceutical prepar-<br>ations..... | 151                       | 18,379,601           | 2,959           | 3,833,778                 | 5,595,117                | 11,978,862           | 17,573,979           |
| 34                                                                    | Primary iron and<br>steel.....                           | 52                        | 96,323,629           | 4,847           | 6,131,057                 | 6,289,483                | 9,908,043            | 16,197,526           |
| 35                                                                    | Paints, pigments and<br>varnishes.....                   | 71                        | 23,978,252           | 2,658           | 3,858,813                 | 6,295,860                | 8,616,523            | 14,912,383           |
| 36                                                                    | Boxes and bags,<br>paper.....                            | 126                       | 20,110,391           | 4,654           | 4,412,048                 | 8,787,604                | 8,238,835            | 17,026,439           |
| 37                                                                    | Furnishing goods,<br>men's.....                          | 153                       | 13,880,827           | 7,565           | 4,969,615                 | 9,653,947                | 7,953,709            | 17,607,656           |
| 38                                                                    | Planing mills, sash<br>and door factories,<br>etc.....   | 659                       | 37,434,946           | 6,290           | 5,514,957                 | 8,073,672                | 7,426,587            | 15,500,259           |
| 39                                                                    | Fish curing and pack-<br>ing.....                        | 629                       | 17,043,212           | 4,128           | 2,344,164                 | 10,263,631               | 6,420,494            | 16,684,125           |
| 40                                                                    | Coffee, tea and spices                                   | 63                        | 14,191,519           | 1,859           | 2,486,106                 | 13,066,931               | 5,947,420            | 19,014,351           |
| <b>Totals, Forty Lead-<br/>ing Industries.....</b>                    |                                                          | <b>19,019</b>             | <b>3,843,069,485</b> | <b>379,019</b>  | <b>383,939,332</b>        | <b>770,591,353</b>       | <b>911,503,692</b>   | <b>1,682,095,045</b> |
| <b>Totals, All Indus-<br/>tries.....</b>                              |                                                          | <b>21,544</b>             | <b>4,741,255,610</b> | <b>495,398</b>  | <b>505,883,323</b>        | <b>955,968,683</b>       | <b>1,170,225,872</b> | <b>2,126,194,555</b> |
| Percentages of the<br>forty leading indus-<br>tries to all industries |                                                          | 77.5                      | 81.1                 | 76.5            | 75.9                      | 80.6                     | 77.9                 | 79.1                 |

**12.—Principal Statistics of the Forty Leading Industries of Canada, Ranked According to Salaries and Wages Paid, 1932.**

| No.                                                                   | Industry.                                                | Estab-<br>lish-<br>ments. | Capital.             | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost of<br>Materials. | Value of Products.   |                      |
|-----------------------------------------------------------------------|----------------------------------------------------------|---------------------------|----------------------|-----------------|---------------------------|-----------------------|----------------------|----------------------|
|                                                                       |                                                          |                           |                      |                 |                           |                       | Net.                 | Gross.               |
|                                                                       |                                                          | No.                       | \$                   | No.             | \$                        | \$                    | \$                   | \$                   |
| 1                                                                     | Pulp and paper.....                                      | 98                        | 597,550,013          | 24,561          | 28,348,128                | 48,970,967            | 86,677,762           | 135,648,729          |
| 2                                                                     | Printing and publish-<br>ing.....                        | 762                       | 61,156,728           | 15,911          | 23,406,606                | 11,193,930            | 43,618,818           | 54,812,748           |
| 3                                                                     | Central electric sta-<br>tions.....                      | 1,033                     | 1,335,886,987        | 15,395          | 23,261,166                | —                     | 128,420,233          | 128,420,233          |
| 4                                                                     | Railway rolling-<br>stock.....                           | 38                        | 87,289,160           | 15,612          | 17,460,142                | 14,101,765            | 18,363,427           | 32,465,192           |
| 5                                                                     | Electrical apparatus<br>and supplies.....                | 169                       | 82,458,754           | 14,305          | 16,262,368                | 20,414,844            | 32,850,074           | 53,264,918           |
| 6                                                                     | Bread and other bak-<br>ery products.....                | 2,861                     | 48,961,175           | 16,856          | 15,909,805                | 23,431,275            | 30,019,077           | 53,450,352           |
| 7                                                                     | Printing and book-<br>binding.....                       | 1,055                     | 39,451,964           | 11,679          | 13,874,016                | 10,967,767            | 20,302,719           | 31,270,486           |
| 8                                                                     | Hosiery and knitted<br>goods.....                        | 169                       | 52,604,950           | 17,655          | 13,474,974                | 19,349,634            | 23,903,118           | 43,252,752           |
| 9                                                                     | Clothing, factory,<br>women's.....                       | 461                       | 18,147,033           | 14,276          | 12,117,879                | 23,983,585            | 18,581,004           | 42,564,589           |
| 10                                                                    | Castings and forgings                                    | 322                       | 79,225,330           | 12,452          | 11,821,243                | 9,825,439             | 19,459,705           | 29,285,144           |
| 11                                                                    | Cotton yarn and<br>cloth.....                            | 35                        | 72,504,504           | 15,092          | 11,684,979                | 19,158,046            | 19,397,324           | 38,555,370           |
| 12                                                                    | Automobiles.....                                         | 25                        | 49,641,777           | 8,810           | 11,435,741                | 28,278,809            | 15,522,580           | 43,801,389           |
| 13                                                                    | Butter and cheese.....                                   | 2,708                     | 50,924,744           | 11,908          | 11,219,366                | 51,768,536            | 26,944,369           | 78,712,905           |
| 14                                                                    | Boots and shoes.....                                     | 191                       | 22,024,801           | 13,728          | 11,156,856                | 15,753,021            | 16,489,395           | 32,242,416           |
| 15                                                                    | Sawmills.....                                            | 3,593                     | 80,796,425           | 18,285          | 10,761,090                | 23,405,576            | 15,101,071           | 38,506,647           |
| 16                                                                    | Slaughtering and<br>meat packing.....                    | 141                       | 53,227,929           | 9,101           | 10,349,315                | 65,575,957            | 25,670,566           | 91,246,523           |
| 17                                                                    | Biscuits, confection-<br>ery, cocoa, etc.....            | 262                       | 45,402,886           | 10,526          | 9,425,498                 | 15,594,694            | 21,791,399           | 37,386,093           |
| 18                                                                    | Rubber goods, in-<br>cluding footwear.....               | 47                        | 65,794,903           | 10,325          | 9,340,911                 | 11,906,696            | 28,840,214           | 40,746,910           |
| 19                                                                    | Dyeing, cleaning and<br>laundry work.....                | 409                       | 24,893,114           | 11,170          | 9,020,441                 | 1,587,586             | 15,715,193           | 17,302,779           |
| 20                                                                    | Non-ferrous metal<br>smelting and refin-<br>ing.....     | 13                        | 149,708,860          | 5,343           | 8,778,970                 | 37,719,947            | 38,722,129           | 76,442,076           |
| 21                                                                    | Machinery.....                                           | 179                       | 57,753,031           | 7,191           | 7,894,912                 | 7,731,233             | 14,538,962           | 22,270,195           |
| 22                                                                    | Clothing, factory,<br>men's.....                         | 163                       | 16,434,048           | 8,098           | 7,269,994                 | 15,262,351            | 12,027,240           | 27,289,591           |
| 23                                                                    | Tobacco, cigars and<br>cigarettes.....                   | 116                       | 42,351,650           | 8,236           | 7,127,070                 | 18,787,261            | 18,574,530           | 37,361,781           |
| 24                                                                    | Furniture.....                                           | 380                       | 30,910,489           | 8,348           | 6,882,087                 | 5,921,666             | 12,077,176           | 17,998,842           |
| 25                                                                    | Sheet metal products                                     | 157                       | 51,671,470           | 6,372           | 6,756,826                 | 14,831,672            | 13,054,627           | 27,886,299           |
| 26                                                                    | Primary iron and<br>steel.....                           | 52                        | 96,323,629           | 4,847           | 6,131,057                 | 6,289,483             | 9,908,043            | 16,197,526           |
| 27                                                                    | Petroleum products..                                     | 31                        | 69,475,860           | 4,116           | 5,980,681                 | 52,237,387            | 19,460,370           | 71,687,757           |
| 28                                                                    | Breweries.....                                           | 75                        | 57,398,055           | 4,353           | 5,932,225                 | 10,210,482            | 28,001,710           | 38,212,192           |
| 29                                                                    | Silk and artificial<br>silk.....                         | 24                        | 28,021,412           | 7,036           | 5,756,865                 | 7,858,104             | 12,006,739           | 19,864,843           |
| 30                                                                    | Flour and feed mill..                                    | 1,290                     | 58,283,212           | 5,586           | 5,576,395                 | 63,177,656            | 21,571,144           | 84,748,800           |
| 31                                                                    | Planing mills, sash<br>and door factories.               | 659                       | 37,434,946           | 6,290           | 5,514,957                 | 8,073,672             | 7,426,587            | 15,500,259           |
| 32                                                                    | Furnishing goods,<br>men's.....                          | 153                       | 13,880,827           | 7,565           | 4,969,615                 | 9,653,947             | 7,953,709            | 17,607,656           |
| 33                                                                    | Coke and gas prod-<br>ucts.....                          | 42                        | 93,534,495           | 3,639           | 4,897,746                 | 12,241,698            | 17,570,952           | 29,812,650           |
| 34                                                                    | Boxes and bags,<br>paper.....                            | 126                       | 20,110,391           | 4,654           | 4,412,048                 | 8,787,604             | 8,238,835            | 17,026,439           |
| 35                                                                    | Fruit and vegetable<br>preparations.....                 | 258                       | 40,586,892           | 5,954           | 4,056,746                 | 15,600,602            | 14,433,935           | 30,034,537           |
| 36                                                                    | Paints, pigments and<br>varnishes.....                   | 71                        | 23,978,252           | 2,658           | 3,858,813                 | 6,295,860             | 8,616,523            | 14,912,383           |
| 37                                                                    | Medicinal and phar-<br>maceutical prepar-<br>ations..... | 151                       | 18,379,601           | 2,959           | 3,833,778                 | 5,595,117             | 11,978,862           | 17,573,979           |
| 38                                                                    | Sugar refineries.....                                    | 8                         | 37,654,457           | 2,140           | 3,147,753                 | 25,716,922            | 15,305,667           | 41,022,558           |
| 39                                                                    | Coffee, tea and spices                                   | 63                        | 14,191,519           | 1,850           | 2,486,106                 | 13,066,931            | 5,947,420            | 19,014,351           |
| 40                                                                    | Fish curing and<br>packing.....                          | 629                       | 17,043,212           | 4,128           | 2,344,164                 | 10,263,631            | 6,420,494            | 16,684,125           |
| <b>Totals, Forty Lead-<br/>ing Industries...</b>                      |                                                          | <b>19,019</b>             | <b>3,843,069,485</b> | <b>379,019</b>  | <b>383,939,332</b>        | <b>770,591,353</b>    | <b>911,503,692</b>   | <b>1,682,095,045</b> |
| <b>Totals, All Indus-<br/>tries.....</b>                              |                                                          | <b>24,544</b>             | <b>1,741,255,610</b> | <b>495,398</b>  | <b>505,883,323</b>        | <b>955,968,683</b>    | <b>1,170,225,872</b> | <b>2,126,194,555</b> |
| Percentages of the<br>forty leading indus-<br>tries to all industries |                                                          | 77.5                      | 81.1                 | 76.5            | 75.9                      | 80.6                  | 77.9                 | 79.1                 |

### Section 3.—Provincial Distribution of Manufacturing Production.

Ontario and Quebec are the most important manufacturing provinces of Canada. Their combined production in 1932 amounted to \$1,696,000,000, or nearly 80 p.c. of the gross value of manufactured products of the Dominion. Of this amount Ontario contributed \$1,028,000,000 and Quebec \$668,000,000. The proximity of Ontario to the coal fields of Pennsylvania, the water-power resources of the two provinces and their nearness to the larger markets of Canada and the United States have all contributed to the above result. British Columbia had in 1932 the third largest gross manufacturing production, \$141,000,000, and Manitoba the fourth, \$96,000,000. Alberta, Nova Scotia, New Brunswick and Saskatchewan followed in the order named, with gross production ranging from \$55,000,000 to \$36,000,000, succeeded by Prince Edward Island with \$3,567,000.

#### Subsection 1.—The Manufactures of the Maritime Provinces, 1932.

Table 13 gives the statistics of the leading industries of each of the Maritime Provinces for the year 1932. In Prince Edward Island, fish canning and curing with a gross production of \$833,055, was foremost, followed by butter and cheese, central electric stations, slaughtering and meatpacking, etc. Manufacturing in Nova Scotia and New Brunswick is, of course, to a considerable extent dominated by the steel industry in the former and the forest industries in the latter, although there is a large sugar refinery in each province. The pulp and paper industry, with a gross value of production of \$12,823,270 in 1932, was the most important industry in New Brunswick, followed by central electric stations with an output of \$3,340,257 and sawmills with an output of \$2,208,916. These three industries combined provided nearly 40 p.c. of the gross manufacturing production of the province. In Nova Scotia, fish canning and curing with an output valued at \$4,633,955, was the leading industry in 1932. Usually the primary iron and steel industry is of chief importance in Nova Scotia but, in 1932, due to the same economic conditions which so seriously affected this industry elsewhere in Canada, it dropped to fourth place. Other leading industries were: central electric stations, pulp and paper, butter and cheese, etc.

#### 13.—Statistics of the Leading Industries of each of the Maritime Provinces, 1932.

NOTE.—Other leading industries, statistics of which cannot be given because there are fewer than three establishments in each industry, are: in Prince Edward Island, castings and forgings, and railway rolling-stock; in Nova Scotia, petroleum, sugar refineries, breweries, and coke and gas products; in New Brunswick, sugar refineries, soaps and washing compounds, and railway rolling-stock. The statistics for these industries are included in the item "all other leading industries".

##### PRINCE EDWARD ISLAND.

| No. | Industry.                                       | Estab-lish-ments. | Capital.         | Em-ployees.  | Salaries and Wages. | Cost of Materials. | Gross Value of Products |
|-----|-------------------------------------------------|-------------------|------------------|--------------|---------------------|--------------------|-------------------------|
|     |                                                 | No.               | \$               | No.          | \$                  | \$                 | \$                      |
| 1   | Fish curing and packing.....                    | 99                | 189,975          | 348          | 97,647              | 594,890            | 833,055                 |
| 2   | Butter and cheese.....                          | 37                | 270,220          | 110          | 70,554              | 476,233            | 638,796                 |
| 3   | Central electric stations.....                  | 12                | 1,059,558        | 47           | 55,465              | -                  | 274,555                 |
| 4   | Slaughtering and meat packing...                | 3                 | 127,765          | 45           | 39,909              | 157,342            | 263,258                 |
| 5   | Flour mills.....                                | 15                | 80,337           | 16           | 7,823               | 134,302            | 162,701                 |
| 6   | Printing and publishing.....                    | 4                 | 284,471          | 98           | 84,536              | 22,005             | 158,352                 |
| 7   | Planing mills.....                              | 4                 | 198,573          | 34           | 31,435              | 118,357            | 146,005                 |
| 8   | Bread and other bakery products.                | 8                 | 105,961          | 40           | 29,685              | 68,826             | 141,156                 |
| 9   | Sawmills.....                                   | 52                | 128,705          | 69           | 13,570              | 59,655             | 109,851                 |
| 10  | All other leading industries <sup>1</sup> ..... | 3                 | 711,003          | 108          | 114,480             | 88,641             | 269,146                 |
|     | <b>Totals, Leading Industries.....</b>          | <b>237</b>        | <b>3,156,563</b> | <b>915</b>   | <b>545,104</b>      | <b>1,713,251</b>   | <b>2,996,875</b>        |
|     | <b>Totals, All Industries.....</b>              | <b>274</b>        | <b>3,867,195</b> | <b>1,147</b> | <b>725,237</b>      | <b>1,949,933</b>   | <b>3,566,968</b>        |

<sup>1</sup> Read headnote to this table.



### 13.—Statistics of the Leading Industries of each of the Maritime Provinces, 1932 —concluded.

#### NOVA SCOTIA.

| No.                                    | Industry.                                       | Estab-<br>lish-<br>ments. | Capital.           | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost<br>of<br>Materials. | Gross<br>Value of<br>Products. |
|----------------------------------------|-------------------------------------------------|---------------------------|--------------------|-----------------|---------------------------|--------------------------|--------------------------------|
|                                        |                                                 | No.                       | \$                 | No.             | \$                        | \$                       | \$                             |
| 1                                      | Fish curing and packing.....                    | 190                       | 3,154,379          | 1,634           | 840,172                   | 3,026,524                | 4,633,955                      |
| 2                                      | Central electric stations.....                  | 79                        | 29,944,161         | 725             | 887,689                   | —                        | 4,356,412                      |
| 3                                      | Pulp and paper.....                             | 5                         | 12,534,065         | 547             | 755,753                   | 1,331,673                | 4,050,523                      |
| 4                                      | Primary iron and steel.....                     | 6                         | 17,132,669         | 612             | 687,511                   | 1,259,925                | 2,580,265                      |
| 5                                      | Butter and cheese.....                          | 30                        | 1,203,448          | 290             | 310,283                   | 1,386,497                | 2,190,785                      |
| 6                                      | Printing and publishing.....                    | 32                        | 2,234,955          | 647             | 820,553                   | 304,494                  | 1,815,189                      |
| 7                                      | Biscuits, confectionery, cocoa, etc.            | 8                         | 4,534,676          | 771             | 715,247                   | 667,423                  | 1,754,586                      |
| 8                                      | Shipbuilding.....                               | 9                         | 3,658,258          | 584             | 650,763                   | 674,650                  | 1,718,937                      |
| 9                                      | Hosiery and knitted goods.....                  | 3                         | 2,121,254          | 676             | 448,752                   | 816,713                  | 1,652,023                      |
| 10                                     | Sawmills.....                                   | 640                       | 2,153,418          | 1,370           | 368,131                   | 812,399                  | 1,516,254                      |
| 11                                     | Bread and other bakery products.                | 62                        | 711,450            | 332             | 271,145                   | 538,026                  | 1,199,678                      |
| 12                                     | All other leading industries <sup>1</sup> ..... | 6                         | 19,605,933         | 905             | 1,194,078                 | 7,595,528                | 12,360,062                     |
| <b>Totals, Leading Industries.....</b> |                                                 | <b>1,070</b>              | <b>90,038,666</b>  | <b>9,093</b>    | <b>7,959,127</b>          | <b>18,713,852</b>        | <b>39,828,659</b>              |
| <b>Totals, All Industries.....</b>     |                                                 | <b>1,404</b>              | <b>125,639,707</b> | <b>13,142</b>   | <b>11,199,861</b>         | <b>22,929,430</b>        | <b>59,351,054</b>              |

#### NEW BRUNSWICK.

| No.                                    | Industry.                                       | Estab-<br>lish-<br>ments. | Capital.           | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost<br>of<br>Materials. | Gross<br>Value of<br>Products. |
|----------------------------------------|-------------------------------------------------|---------------------------|--------------------|-----------------|---------------------------|--------------------------|--------------------------------|
|                                        |                                                 | No.                       | \$                 | No.             | \$                        | \$                       | \$                             |
| 1                                      | Pulp and paper.....                             | 6                         | 43,552,385         | 1,837           | 1,919,667                 | 4,074,807                | 12,823,270                     |
| 2                                      | Central electric stations.....                  | 37                        | 29,458,115         | 457             | 519,070                   | —                        | 3,340,257                      |
| 3                                      | Sawmills.....                                   | 230                       | 6,297,181          | 1,343           | 600,214                   | 1,304,536                | 2,208,916                      |
| 4                                      | Cotton yarn and cloth.....                      | 4                         | 4,380,400          | 1,001           | 895,044                   | 712,991                  | 2,006,402                      |
| 5                                      | Coffee, tea and spices.....                     | 6                         | 2,030,983          | 243             | 293,812                   | 1,423,488                | 1,592,888                      |
| 6                                      | Fish curing and packing.....                    | 157                       | 2,086,902          | 711             | 239,434                   | 1,038,748                | 1,637,825                      |
| 7                                      | Biscuits, confectionery, cocoa, etc.            | 9                         | 1,753,260          | 491             | 382,114                   | 608,704                  | 1,387,096                      |
| 8                                      | Butter and cheese.....                          | 34                        | 1,100,817          | 190             | 203,428                   | 753,594                  | 1,195,538                      |
| 9                                      | Bread and other bakery products.                | 70                        | 787,008            | 332             | 291,536                   | 534,253                  | 1,123,119                      |
| 10                                     | Printing and publishing.....                    | 20                        | 1,155,916          | 367             | 463,581                   | 166,272                  | 1,059,323                      |
| 11                                     | All other leading industries <sup>1</sup> ..... | 3                         | 10,855,020         | 1,541           | 1,816,201                 | 5,399,774                | 9,301,340                      |
| <b>Totals, Leading Industries.....</b> |                                                 | <b>576</b>                | <b>103,457,987</b> | <b>8,513</b>    | <b>7,624,101</b>          | <b>16,017,167</b>        | <b>37,975,974</b>              |
| <b>Totals, All Industries.....</b>     |                                                 | <b>841</b>                | <b>117,451,168</b> | <b>11,987</b>   | <b>10,623,685</b>         | <b>20,776,653</b>        | <b>47,472,393</b>              |

<sup>1</sup>Read headnote to this table on p. 479.

### Subsection 2.—The Manufactures of Quebec, 1932.

The pulp and paper mills of Quebec, the most important manufacturing unit of the province, produced goods with a selling value at the factory of \$63,317,497 in 1932. This exceeded by nearly \$19,000,000 the gross value of products of central electric stations (\$44,720,404), the industry which ranks second in importance. This was followed by non-ferrous metal smelting and refining (\$35,141,813), tobacco, cigars and cigarettes (\$31,923,004), cotton yarn and cloth (\$26,974,004), women's factory clothing (\$23,193,839), boots and shoes (\$18,635,509), petroleum products (\$18,241,142), etc. A change took place in the ranking of some of the important industries of the province. The non-ferrous metal smelting and refining industry advanced from eighth place in 1930 to third place in 1932, while sawmills dropped from fifth to twenty-first place. Compared with 1931, the petroleum products industry advanced from fifteenth to eighth place, the silk industry also advanced from twenty-first to fourteenth place while railway rolling-stock dropped from sixth to fifteenth place.



The importance of the pulp and paper industry in Quebec is shown by a comparison with the industry throughout Canada. The Quebec section of the industry, in addition to supplying about ten per cent of the total gross value of all products manufactured in the province, furnished 47 p.c. of the products of pulp and paper mills throughout the country. The gross value of cotton yarn and cloth products from Quebec mills formed 70 p.c., the value of railway rolling-stock 40 p.c., the value of tobacco, cigars and cigarettes 85 p.c., and the value of boots and shoes 58 p.c. of the Dominion totals for these products. Thus, Quebec is an outstanding manufacturing province rather on account of her individual industries than because of the diversification of her industrial activity.

#### 14.—Principal Statistics of the Forty Leading Industries of the Province of Quebec, 1932.

Note.—Statistics for sugar refining, which is also one of the leading industries of this province, cannot be published because there are fewer than three establishments reporting.

| No.                                                                                                  | Industry.                                            | Estab-<br>lish-<br>ments. | Capital.             | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost<br>of<br>Materials. | Gross<br>Value<br>of<br>Products. |
|------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------|----------------------|-----------------|---------------------------|--------------------------|-----------------------------------|
|                                                                                                      |                                                      | No.                       | \$                   | No.             | \$                        | \$                       | \$                                |
| 1                                                                                                    | Pulp and paper.....                                  | 42                        | 289,885,315          | 11,902          | 12,548,092                | 22,719,075               | 63,317,497                        |
| 2                                                                                                    | Central electric stations.....                       | 133                       | 574,953,411          | 3,471           | 4,875,614                 | —                        | 44,720,404                        |
| 3                                                                                                    | Non-ferrous metal smelting and<br>refining.....      | 4                         | 34,388,487           | 1,182           | 1,615,688                 | 19,992,143               | 35,141,813                        |
| 4                                                                                                    | Tobacco, cigars and cigarettes..                     | 68                        | 35,448,426           | 7,047           | 5,991,640                 | 16,228,308               | 31,923,004                        |
| 5                                                                                                    | Cotton yarn and cloth.....                           | 15                        | 50,139,285           | 9,603           | 7,405,827                 | 14,469,018               | 26,974,004                        |
| 6                                                                                                    | Clothing, factory, women's.....                      | 221                       | 8,250,985            | 7,102           | 6,049,728                 | 13,413,137               | 23,193,839                        |
| 7                                                                                                    | Boots and shoes.....                                 | 108                       | 12,456,403           | 8,362           | 6,474,498                 | 9,210,060                | 18,635,509                        |
| 8                                                                                                    | Petroleum products.....                              | 7                         | 19,472,927           | 897             | 1,331,087                 | 10,940,719               | 18,241,142                        |
| 9                                                                                                    | Slaughtering and meat packing..                      | 36                        | 8,297,252            | 1,679           | 1,953,622                 | 12,562,717               | 17,371,202                        |
| 10                                                                                                   | Butter and cheese.....                               | 1,345                     | 7,043,812            | 2,284           | 1,035,661                 | 12,635,656               | 16,667,025                        |
| 11                                                                                                   | Clothing, factory, men's.....                        | 107                       | 8,445,838            | 4,161           | 3,634,154                 | 9,399,460                | 16,596,356                        |
| 12                                                                                                   | Breweries.....                                       | 8                         | 18,471,861           | 1,591           | 2,106,222                 | 3,864,739                | 15,168,857                        |
| 13                                                                                                   | Bread and other bakery pro-<br>ducts.....            | 887                       | 13,291,902           | 4,632           | 4,025,658                 | 6,161,509                | 13,962,349                        |
| 14                                                                                                   | Silk and artificial silk.....                        | 15                        | 19,449,406           | 4,907           | 3,834,856                 | 5,629,907                | 13,844,989                        |
| 15                                                                                                   | Railway rolling-stock.....                           | 11                        | 38,311,683           | 5,739           | 7,328,092                 | 5,681,030                | 13,134,986                        |
| 16                                                                                                   | Printing and publishing.....                         | 68                        | 16,094,522           | 3,977           | 5,292,754                 | 2,690,035                | 12,835,525                        |
| 17                                                                                                   | Electrical apparatus and supplies                    | 22                        | 20,587,931           | 3,744           | 4,858,218                 | 4,856,458                | 12,497,636                        |
| 18                                                                                                   | Hosiery and knitted goods.....                       | 45                        | 14,102,295           | 4,808           | 3,390,202                 | 4,965,667                | 11,727,858                        |
| 19                                                                                                   | Flour and feed mills.....                            | 359                       | 6,053,290            | 899             | 875,977                   | 8,495,523                | 11,692,814                        |
| 20                                                                                                   | Biscuits, confectionery, cocoa<br>and chocolate..... | 57                        | 10,190,191           | 3,182           | 2,408,842                 | 4,899,618                | 10,453,618                        |
| 21                                                                                                   | Sawmills.....                                        | 1,467                     | 18,754,578           | 5,131           | 2,411,358                 | 6,457,117                | 9,946,690                         |
| 22                                                                                                   | Furnishing goods, men's.....                         | 69                        | 6,350,280            | 3,841           | 2,300,438                 | 4,639,274                | 8,146,179                         |
| 23                                                                                                   | Rubber goods, including foot-<br>wear.....           | 10                        | 9,583,120            | 2,807           | 2,148,751                 | 2,158,705                | 8,113,735                         |
| 24                                                                                                   | Printing and bookbinding.....                        | 298                       | 10,383,101           | 3,124           | 3,474,388                 | 2,630,509                | 7,906,678                         |
| 25                                                                                                   | Castings and forgings.....                           | 72                        | 22,005,152           | 2,820           | 2,621,716                 | 2,808,779                | 7,830,174                         |
| 26                                                                                                   | Sheet metal products.....                            | 29                        | 11,002,709           | 1,770           | 1,738,890                 | 3,465,333                | 6,941,093                         |
| 27                                                                                                   | Machinery.....                                       | 28                        | 17,127,558           | 2,062           | 2,143,729                 | 2,038,060                | 6,399,121                         |
| 28                                                                                                   | Paints, pigments and varnishes..                     | 17                        | 11,871,812           | 1,023           | 1,524,400                 | 2,387,449                | 5,665,601                         |
| 29                                                                                                   | Medicinal and pharmaceutical<br>preparations.....    | 51                        | 6,030,079            | 951             | 1,283,773                 | 1,475,619                | 5,156,914                         |
| 30                                                                                                   | Aerated and mineral waters....                       | 123                       | 5,196,436            | 955             | 1,119,400                 | 1,211,477                | 5,125,491                         |
| 31                                                                                                   | Distilleries.....                                    | 8                         | 15,556,053           | 586             | 656,351                   | 1,348,394                | 5,121,633                         |
| 32                                                                                                   | Coke and gas products.....                           | 4                         | 13,593,132           | 383             | 553,567                   | 2,737,704                | 4,941,737                         |
| 33                                                                                                   | Hats and caps.....                                   | 56                        | 2,241,433            | 1,506           | 1,444,270                 | 2,420,750                | 4,789,514                         |
| 34                                                                                                   | Explosives, ammunition, etc....                      | 4                         | 4,551,079            | 877             | 892,651                   | 1,490,531                | 4,747,554                         |
| 35                                                                                                   | Miscellaneous textiles.....                          | 8                         | 9,596,482            | 1,035           | 1,171,452                 | 1,996,878                | 4,736,883                         |
| 36                                                                                                   | Fur goods.....                                       | 102                       | 4,656,152            | 1,052           | 1,139,100                 | 2,886,875                | 4,673,715                         |
| 37                                                                                                   | Boxes and bags, paper.....                           | 30                        | 6,658,158            | 1,502           | 1,177,515                 | 2,342,048                | 4,657,172                         |
| 38                                                                                                   | Dyeing, cleaning and laundry<br>work.....            | 88                        | 6,982,488            | 2,943           | 2,342,350                 | 437,031                  | 4,602,774                         |
| 39                                                                                                   | Coffee, tea and spices.....                          | 13                        | 2,563,206            | 446             | 584,690                   | 3,040,350                | 4,502,369                         |
| 40                                                                                                   | Planing mills, sash and door<br>factories.....       | 249                       | 8,331,978            | 1,807           | 1,348,594                 | 2,378,813                | 4,297,222                         |
| <b>Totals, Forty Leading Indus-<br/>tries.....</b>                                                   |                                                      | <b>6,284</b>              | <b>1,398,370,208</b> | <b>127,790</b>  | <b>119,113,815</b>        | <b>239,166,475</b>       | <b>546,302,676</b>                |
| <b>Totals, All Industries.....</b>                                                                   |                                                      | <b>7,851</b>              | <b>1,632,955,979</b> | <b>161,439</b>  | <b>151,481,138</b>        | <b>292,203,152</b>       | <b>668,417,093</b>                |
| Percentages of the forty leading<br>industries to totals of all in-<br>dustries in the province..... |                                                      | 80.0                      | 85.6                 | 79.2            | 78.6                      | 81.9                     | 81.7                              |

### Subsection 3.—The Manufactures of Ontario, 1932.

Ontario is the most important manufacturing province of the Dominion. The gross value of its manufactured products in 1932 represented over 48 p.c. of those of the whole Dominion, while those of Quebec, the second province in importance in this respect, amounted to about 32 p.c. This premier position in manufacturing has been fairly uniformly maintained by Ontario over a long period, as the following percentages show: in 1926, 52 p.c.; in 1918, 53 p.c.; 1910, 50 p.c.; 1900, 50 p.c.; 1890, 51 p.c., and 1880, 51 p.c. Thus, in spite of the rapid industrial development in recent years in other provinces such as Quebec, British Columbia and Manitoba, Ontario is maintaining a manufacturing production almost equal to that of the remainder of the Dominion.

Central electric stations came first in 1932 in the value of production. This amounted to \$49,952,973 as compared with \$46,547,469 for flour and feed mills, the industry which held second place. Other important industries, in descending order, with the values of their products in 1932 were: pulp and paper \$44,027,587, automobiles \$43,323,789, slaughtering and meat packing \$42,809,535, electrical apparatus and supplies \$39,830,967, butter and cheese \$39,085,773. Due to the general depression still prevailing during 1932, the leading industries of Ontario, in common with many others, reported considerable decreases in the gross values of production, as compared with the previous year. The output of the electrical apparatus industry declined \$24,000,000, non-ferrous metal smelting and refining \$19,000,000, castings and forgings \$15,000,000, automobiles \$14,000,000, slaughtering and meat packing \$14,000,000, pulp and paper \$9,000,000 and rubber goods \$9,000,000. An important change took place in the ranking of some of the leading industries. Automobiles, which for a number of years ranked as the premier industry of Ontario, declined to fourth place in 1932, while electrical apparatus and supplies, which ranked first in 1931, dropped to sixth place in 1932. Central electric stations on the other hand advanced from sixth place in 1931 to first place in 1932.

Indicating the greater diversification of industry in Ontario as compared with Quebec, the percentages which the forty leading industries bore to the total manufactures of the province were higher in nearly every particular in Quebec than in Ontario, especially in the capital employed and the number of establishments and employees. Outstanding among the industries in which the province of Ontario was pre-eminent, was that of automobile manufacturing, which was carried on practically in this province alone. Other important industries in which Ontario led, with the percentage which the production of each bore to that of the Dominion in 1932, were as follows: agricultural implements, 93 p.c.; leather tanneries, 86 p.c.; rubber goods, 80 p.c.; furniture and upholstering, 70 p.c.; fruit and vegetable canning, preserving, etc., 70 p.c.; electrical apparatus and supplies, 75 p.c.; castings and forgings, 61 p.c.; primary iron and steel, 63 p.c.; slaughtering and meat packing, 47 p.c.; flour and feed mills, 55 p.c.; hosiery and knitted goods, 66 p.c.

## 15.—Principal Statistics of the Forty Leading Industries of the Province of Ontario, 1932.

| No.                                                                                  | Industry.                                         | Estab-<br>lish-<br>ments. | Capital.             | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost<br>of<br>Materials. | Gross<br>Value of<br>Products. |
|--------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------|----------------------|-----------------|---------------------------|--------------------------|--------------------------------|
|                                                                                      |                                                   | No.                       | \$                   | No.             | \$                        | \$                       | \$                             |
| 1                                                                                    | Central electric stations.....                    | 444                       | 473,717,409          | 6,916           | 11,390,547                | —                        | 49,952,973                     |
| 2                                                                                    | Flour and feed mills.....                         | 674                       | 26,130,389           | 2,756           | 2,604,319                 | 35,561,876               | 46,547,469                     |
| 3                                                                                    | Pulp and paper.....                               | 38                        | 190,427,742          | 7,863           | 10,027,866                | 17,394,588               | 44,027,587                     |
| 4                                                                                    | Automobiles.....                                  | 18                        | 48,600,906           | 8,533           | 11,005,641                | 27,934,301               | 43,323,789                     |
| 5                                                                                    | Slaughtering and meat packing.....                | 57                        | 25,423,678           | 3,676           | 4,333,699                 | 30,794,519               | 42,809,535                     |
| 6                                                                                    | Electrical apparatus and supplies.....            | 125                       | 60,805,581           | 10,307          | 11,084,105                | 15,263,893               | 39,830,967                     |
| 7                                                                                    | Butter and cheese.....                            | 987                       | 27,813,002           | 6,472           | 6,507,345                 | 24,576,326               | 39,085,773                     |
| 8                                                                                    | Rubber goods, including foot-<br>wear.....        | 35                        | 55,852,273           | 7,500           | 7,170,860                 | 9,742,018                | 32,597,374                     |
| 9                                                                                    | Petroleum products.....                           | 6                         | 25,760,241           | 1,943           | 2,770,767                 | 21,761,498               | 28,842,558                     |
| 10                                                                                   | Hosiery and knitted goods.....                    | 110                       | 34,926,990           | 11,628          | 9,229,866                 | 12,997,091               | 28,602,549                     |
| 11                                                                                   | Bread and other bakery pro-<br>ducts.....         | 1,111                     | 22,477,239           | 7,984           | 8,019,075                 | 11,047,938               | 25,959,689                     |
| 12                                                                                   | Printing and publishing.....                      | 285                       | 26,639,497           | 6,877           | 10,662,902                | 5,676,972                | 25,545,913                     |
| 13                                                                                   | Non-ferrous metal smelting and<br>refining.....   | 6                         | 70,762,582           | 1,718           | 2,795,906                 | 9,929,625                | 22,026,033                     |
| 14                                                                                   | Fruit and vegetable preparations.....             | 140                       | 30,529,039           | 3,766           | 2,574,778                 | 10,452,737               | 21,127,843                     |
| 15                                                                                   | Biscuits, confectionery, etc.....                 | 106                       | 25,261,257           | 5,157           | 5,163,722                 | 7,977,949                | 20,594,679                     |
| 16                                                                                   | Coke and gas products.....                        | 21                        | 51,648,995           | 2,463           | 3,463,105                 | 7,481,553                | 19,812,034                     |
| 17                                                                                   | Castings and forgings.....                        | 175                       | 46,108,796           | 7,945           | 7,289,985                 | 5,926,065                | 17,876,734                     |
| 18                                                                                   | Clothing, factory, women's.....                   | 201                       | 8,971,568            | 6,061           | 5,384,288                 | 9,381,227                | 17,189,140                     |
| 19                                                                                   | Printing and bookbinding.....                     | 452                       | 20,285,357           | 5,959           | 7,254,992                 | 6,255,447                | 16,881,594                     |
| 20                                                                                   | Sheet metal products.....                         | 80                        | 27,225,230           | 3,665           | 3,982,064                 | 9,074,685                | 16,641,819                     |
| 21                                                                                   | Machinery.....                                    | 129                       | 38,831,656           | 4,920           | 5,496,805                 | 5,560,875                | 15,339,540                     |
| 22                                                                                   | Breweries.....                                    | 32                        | 18,516,062           | 1,477           | 1,995,820                 | 3,197,433                | 12,738,513                     |
| 23                                                                                   | Boots and shoes, leather.....                     | 66                        | 8,630,673            | 4,919           | 4,350,784                 | 6,041,394                | 12,664,700                     |
| 24                                                                                   | Furniture.....                                    | 209                       | 23,674,642           | 6,002           | 4,948,043                 | 4,288,802                | 12,566,239                     |
| 25                                                                                   | Leather tanneries.....                            | 33                        | 18,275,032           | 2,595           | 2,708,469                 | 6,827,209                | 12,237,389                     |
| 26                                                                                   | Automobile supplies.....                          | 57                        | 16,798,056           | 3,665           | 3,699,693                 | 5,837,304                | 11,782,835                     |
| 27                                                                                   | Medicinal and pharmaceutical<br>preparations..... | 86                        | 10,761,176           | 1,813           | 2,305,891                 | 3,609,518                | 11,103,438                     |
| 28                                                                                   | Soaps and washing compounds..                     | 37                        | 9,135,529            | 1,144           | 1,597,747                 | 4,940,373                | 10,960,322                     |
| 29                                                                                   | Woolen cloth.....                                 | 34                        | 16,254,834           | 3,887           | 3,325,380                 | 4,913,736                | 10,345,539                     |
| 30                                                                                   | Primary iron and steel.....                       | 22                        | 64,296,890           | 2,692           | 4,005,097                 | 4,016,562                | 10,239,061                     |
| 31                                                                                   | Boxes and bags, paper.....                        | 76                        | 10,840,553           | 2,646           | 2,720,440                 | 5,347,365                | 10,230,330                     |
| 32                                                                                   | Clothing, factory, men's.....                     | 43                        | 7,436,689            | 3,509           | 3,313,855                 | 5,297,425                | 9,676,659                      |
| 33                                                                                   | Cotton yarn and cloth.....                        | 15                        | 15,876,473           | 4,207           | 3,231,421                 | 3,829,219                | 9,068,963                      |
| 34                                                                                   | Tobacco processing and packing                    | 8                         | 9,004,505            | 1,250           | 832,748                   | 6,519,889                | 8,232,092                      |
| 35                                                                                   | Acids, alkalies and salts.....                    | 8                         | 26,511,227           | 950             | 1,328,314                 | 1,353,341                | 7,948,508                      |
| 36                                                                                   | Miscellaneous paper products....                  | 53                        | 8,630,584            | 1,404           | 1,643,355                 | 4,011,687                | 7,870,509                      |
| 37                                                                                   | Planing mills, sash and door<br>factories.....    | 265                       | 18,287,026           | 2,717           | 2,595,598                 | 3,660,338                | 7,322,785                      |
| 38                                                                                   | Paints, pigments and varnishes                    | 37                        | 9,050,113            | 1,201           | 1,861,959                 | 3,026,723                | 7,314,203                      |
| 39                                                                                   | Dyeing, cleaning and laundry<br>work.....         | 170                       | 9,991,708            | 4,456           | 3,653,677                 | 631,314                  | 6,922,815                      |
| 40                                                                                   | Foods, breakfast.....                             | 11                        | 4,049,834            | 467             | 587,152                   | 1,875,744                | 6,669,673                      |
| <b>Totals, Forty Leading Indus-<br/>tries.....</b>                                   |                                                   | <b>6,462</b>              | <b>1,644,221,093</b> | <b>175,110</b>  | <b>188,918,890</b>        | <b>364,016,529</b>       | <b>800,510,765</b>             |
| <b>Totals, All Industries.....</b>                                                   |                                                   | <b>9,844</b>              | <b>2,141,008,857</b> | <b>239,231</b>  | <b>256,207,232</b>        | <b>459,910,999</b>       | <b>1,028,397,654</b>           |
| Percentages of the forty leading<br>industries to totals of all indus-<br>tries..... |                                                   | 65.6                      | 76.7                 | 73.2            | 73.7                      | 79.2                     | 77.8                           |

## Subsection 4.—The Manufactures of the Prairie Provinces, 1932.

The flour and feed milling industry in 1932 was outstanding among the manufactures of the Prairie Provinces when treated as a single unit. During 1932, as may be seen from Table 16, the gross value of production of flour and feed mills was \$24,246,761 (Manitoba \$6,443,072, Saskatchewan \$9,468,912 and Alberta \$8,334,777). The second industry from the point of view of gross value of production was slaughtering and meat packing, with products valued at \$23,704,599



(Manitoba \$13,011,468, Saskatchewan \$2,256,091 and Alberta \$8,437,040). Butter and cheese comprised the third largest group, with an output valued at \$15,754,928, followed by central electric stations \$15,693,275, railway rolling-stock \$12,014,633, petroleum products \$11,058,020, etc.

The order of the leading industries is somewhat different in each province. In Manitoba, the leading industries, with their gross values of products in 1932, were as follows: slaughtering and meat packing \$13,011,468, railway rolling-stock \$8,936,011, central electric stations \$6,534,141, flour and feed mills \$6,443,072 and butter and cheese \$6,239,213. In Saskatchewan the leading industries were: flour and feed mills \$9,468,912, petroleum products \$5,694,731, butter and cheese \$5,000,690 and central electric stations \$4,478,110. In Alberta, slaughtering and meat packing, with an output of \$8,437,040, was the leading industry. This was followed by flour and feed mills \$8,334,777, petroleum products \$5,363,289, central electric stations \$4,681,024 and butter and cheese \$4,515,025.

The importance of these industries, based on such natural resources of the Prairie Provinces as grain-growing and cattle-raising areas, is evident.

#### 16.—Principal Statistics of the Leading Industries of Manitoba, Saskatchewan and Alberta, 1932.

NOTE.—Other leading industries, statistics of which cannot be given because there are fewer than three establishments in each industry, are: in Manitoba, non-ferrous metal smelting and refining and, in Alberta, sugar refining and wood preservation. The statistics of these industries are included under the heading "all other leading industries" in the case of Alberta.

##### MANITOBA.

| No.                                    | Industry.                                            | Estab-<br>lish-<br>ments. | Capital.           | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost<br>of<br>Materials. | Gross<br>Value of<br>Products. |
|----------------------------------------|------------------------------------------------------|---------------------------|--------------------|-----------------|---------------------------|--------------------------|--------------------------------|
|                                        |                                                      | No.                       | \$                 | No.             | \$                        | \$                       | \$                             |
| 1                                      | Slaughtering and meat packing...                     | 7                         | 5,458,152          | 1,214           | 1,349,910                 | 9,329,829                | 13,011,468                     |
| 2                                      | Railway rolling-stock.....                           | 4                         | 13,907,199         | 4,700           | 4,603,554                 | 3,807,520                | 8,936,011                      |
| 3                                      | Central electric stations.....                       | 39                        | 78,330,880         | 1,161           | 1,667,848                 | —                        | 6,534,141                      |
| 4                                      | Flour and feed mills.....                            | 39                        | 4,019,843          | 479             | 487,780                   | 5,261,727                | 6,443,072                      |
| 5                                      | Butter and cheese.....                               | 69                        | 4,687,078          | 993             | 1,245,321                 | 3,559,440                | 6,239,213                      |
| 6                                      | Printing and publishing.....                         | 74                        | 4,210,249          | 1,112           | 1,775,159                 | 632,650                  | 3,943,006                      |
| 7                                      | Printing and bookbinding.....                        | 80                        | 4,104,578          | 1,180           | 1,496,292                 | 1,084,352                | 3,163,893                      |
| 8                                      | Bread and other bakery products                      | 136                       | 3,002,755          | 922             | 888,403                   | 1,274,557                | 2,920,983                      |
| 9                                      | Bags, cotton and jute.....                           | 5                         | 1,563,351          | 227             | 256,665                   | 1,879,421                | 2,478,855                      |
| 10                                     | Breweries.....                                       | 6                         | 4,384,471          | 422             | 642,093                   | 566,795                  | 2,461,551                      |
| 11                                     | Furnishing goods, men's.....                         | 17                        | 982,656            | 768             | 553,435                   | 1,259,095                | 2,050,153                      |
| 12                                     | Coffee, tea and spices.....                          | 8                         | 1,439,858          | 161             | 178,436                   | 1,471,054                | 1,986,718                      |
| 13                                     | Malt and malt products.....                          | 3                         | 3,645,754          | 91              | 172,413                   | 1,034,507                | 1,826,631                      |
| 14                                     | Clothing, factory, women's.....                      | 24                        | 612,840            | 862             | 488,453                   | 843,725                  | 1,544,199                      |
| 15                                     | Biscuits, confectionery, cocoa and<br>chocolate..... | 21                        | 2,332,064          | 484             | 373,570                   | 768,288                  | 1,523,745                      |
| 16                                     | Dyeing, cleaning and laundry<br>work.....            | 20                        | 1,813,686          | 871             | 758,087                   | 138,663                  | 1,430,866                      |
| 17                                     | Coke and gas products.....                           | 4                         | 5,550,457          | 195             | 209,776                   | 509,984                  | 1,181,437                      |
| 18                                     | Medicinal and pharmaceutical<br>preparations.....    | 7                         | 1,396,029          | 131             | 169,249                   | 465,546                  | 1,127,590                      |
| 19                                     | Fur goods.....                                       | 20                        | 685,909            | 270             | 257,953                   | 655,491                  | 1,078,668                      |
| <b>Totals, Leading Industries.....</b> |                                                      | <b>583</b>                | <b>42,127,809</b>  | <b>16,243</b>   | <b>17,574,397</b>         | <b>34,542,644</b>        | <b>69,882,250</b>              |
| <b>Totals, All Industries .....</b>    |                                                      | <b>970</b>                | <b>190,545,652</b> | <b>22,255</b>   | <b>24,157,589</b>         | <b>45,591,099</b>        | <b>96,056,029</b>              |



## 16.—Principal Statistics of the Leading Industries of Manitoba, Saskatchewan and Alberta, 1932—concluded.

## SASKATCHEWAN.

| No.                                    | Industry.                                      | Estab-<br>lish-<br>ments. | Capital.          | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost<br>of<br>Materials. | Gross<br>Value of<br>Products. |
|----------------------------------------|------------------------------------------------|---------------------------|-------------------|-----------------|---------------------------|--------------------------|--------------------------------|
|                                        |                                                | No.                       | \$                | No.             | \$                        | \$                       | \$                             |
| 1                                      | Flour and feed mills.....                      | 69                        | 11,114,615        | 511             | 614,671                   | 5,983,177                | 9,468,912                      |
| 2                                      | Petroleum products.....                        | 3                         | 4,920,853         | 251             | 364,798                   | 4,685,874                | 5,694,731                      |
| 3                                      | Butter and cheese.....                         | 67                        | 3,809,931         | 647             | 770,618                   | 3,059,359                | 5,000,690                      |
| 4                                      | Central electric stations.....                 | 130                       | 25,543,138        | 627             | 901,873                   |                          | 4,478,110                      |
| 5                                      | Slaughtering and meat packing.....             | 6                         | 1,739,018         | 421             | 464,191                   | 1,531,231                | 2,256,091                      |
| 6                                      | Printing and publishing.....                   | 126                       | 2,595,101         | 773             | 1,124,204                 | 391,635                  | 2,249,987                      |
| 7                                      | Breweries.....                                 | 10                        | 3,742,849         | 219             | 279,651                   | 667,356                  | 1,969,771                      |
| 8                                      | Bread and other bakery products.....           | 158                       | 2,857,535         | 630             | 553,665                   | 801,631                  | 1,803,512                      |
| 9                                      | Dyeing, cleaning and laundry<br>work.....      | 17                        | 968,804           | 298             | 251,423                   | 57,269                   | 484,142                        |
| 10                                     | Planing mills, sash and door<br>factories..... | 17                        | 1,392,178         | 188             | 163,033                   | 242,831                  | 417,512                        |
| <b>Totals, Leading Industries.....</b> |                                                | <b>603</b>                | <b>58,684,022</b> | <b>4,565</b>    | <b>5,493,127</b>          | <b>17,420,363</b>        | <b>33,823,458</b>              |
| <b>Totals, All Industries.....</b>     |                                                | <b>774</b>                | <b>63,294,823</b> | <b>5,535</b>    | <b>6,392,062</b>          | <b>18,214,555</b>        | <b>36,101,516</b>              |

## ALBERTA.

| No.                                    | Industry.                                       | Estab-<br>lish-<br>ments. | Capital.           | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost<br>of<br>Materials. | Gross<br>Value of<br>Products. |
|----------------------------------------|-------------------------------------------------|---------------------------|--------------------|-----------------|---------------------------|--------------------------|--------------------------------|
|                                        |                                                 | No.                       | \$                 | No.             | \$                        | \$                       | \$                             |
| 1                                      | Slaughtering and meat packing....               | 7                         | 7,148,799          | 1,228           | 1,240,829                 | 5,694,602                | 8,437,040                      |
| 2                                      | Flour and feed mills.....                       | 79                        | 8,625,602          | 714             | 798,714                   | 6,131,369                | 8,334,777                      |
| 3                                      | Petroleum products.....                         | 6                         | 7,224,511          | 292             | 440,853                   | 4,111,166                | 5,363,289                      |
| 4                                      | Central electric stations.....                  | 77                        | 27,714,695         | 668             | 935,897                   |                          | 4,681,024                      |
| 5                                      | Butter and cheese.....                          | 103                       | 3,496,170          | 564             | 636,564                   | 2,981,501                | 4,515,025                      |
| 6                                      | Railway rolling-stock.....                      | 3                         | 6,779,834          | 1,605           | 1,668,267                 | 1,319,253                | 3,078,622                      |
| 7                                      | Printing and publishing.....                    | 84                        | 3,341,528          | 793             | 1,178,016                 | 438,888                  | 2,594,451                      |
| 8                                      | Bread and other bakery products.....            | 162                       | 2,420,848          | 696             | 646,668                   | 1,046,319                | 2,316,262                      |
| 9                                      | Breweries.....                                  | 5                         | 5,503,180          | 221             | 342,123                   | 617,375                  | 1,627,937                      |
| 10                                     | Sawmills.....                                   | 154                       | 1,846,363          | 724             | 360,520                   | 419,909                  | 968,704                        |
| 11                                     | All other leading industries <sup>1</sup> ..... | 3                         | 4,486,104          | 341             | 335,573                   | 2,015,793                | 3,394,479                      |
| <b>Totals, Leading Industries.....</b> |                                                 | <b>683</b>                | <b>78,587,634</b>  | <b>7,846</b>    | <b>8,574,024</b>          | <b>24,976,175</b>        | <b>45,611,610</b>              |
| <b>Totals, All Industries.....</b>     |                                                 | <b>943</b>                | <b>100,609,788</b> | <b>11,174</b>   | <b>11,886,114</b>         | <b>28,442,192</b>        | <b>55,233,832</b>              |

<sup>1</sup> Read headnote to this table on p. 484.

## Subsection 5.—The Manufactures of British Columbia\*, 1932.

British Columbia was, in 1932, the third most important manufacturing province in the Dominion, producing goods to a gross value of \$140,538,016. About 13 p.c. of this production, or \$17,729,397, is seen in Table 17 to be that of the sawmilling industry; the predominance of forest products industries in the industrial life of the province is still further emphasized if to this figure be added \$11,056,236, the value of products of the pulp and paper industry which ranks second. Third in importance among the industries of British Columbia is central electric stations, with a gross value of production of \$10,082,357. This was followed by fish curing and packing \$9,085,834, petroleum products \$7,182,495, slaughtering and meat packing \$6,001,923. Fish curing and packing, which usually ranks as the second industry, declined to fourth place in 1932.

\*Including the Yukon Territory.

### 17.—Principal Statistics of the Leading Industries of British Columbia and the Yukon Territory, 1932.

| No.                                                                                  | Industry.                                            | Estab-<br>lish-<br>ments. | Capital.           | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost<br>of<br>Materials. | Gross<br>Value of<br>Products. |
|--------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------|--------------------|-----------------|---------------------------|--------------------------|--------------------------------|
|                                                                                      |                                                      | No.                       | \$                 | No.             | \$                        | \$                       | \$                             |
| 1                                                                                    | Sawmills.....                                        | 220                       | 31,835,488         | 6,490           | 5,307,281                 | 10,580,686               | 17,729,397                     |
| 2                                                                                    | Pulp and paper.....                                  | 6                         | 51,102,837         | 2,330           | 3,015,228                 | 3,309,093                | 11,056,236                     |
| 3                                                                                    | Central electric stations.....                       | 82                        | 95,165,620         | 1,323           | 2,027,163                 | —                        | 10,082,357                     |
| 4                                                                                    | Fish curing and packing.....                         | 89                        | 11,186,283         | 1,037           | 1,062,886                 | 5,274,306                | 9,085,834                      |
| 5                                                                                    | Petroleum products.....                              | 3                         | 5,759,995          | 332             | 516,989                   | 6,107,709                | 7,182,495                      |
| 6                                                                                    | Slaughtering and meat packing.....                   | 12                        | 4,597,775          | 663             | 789,672                   | 4,451,742                | 6,001,923                      |
| 7                                                                                    | Printing and publishing.....                         | 69                        | 4,600,489          | 1,267           | 2,004,901                 | 870,979                  | 4,611,002                      |
| 8                                                                                    | Bread and other bakery products.....                 | 267                       | 3,306,477          | 1,288           | 1,178,970                 | 1,958,216                | 4,023,604                      |
| 9                                                                                    | Fruit and vegetable preparations.....                | 35                        | 3,834,397          | 839             | 590,216                   | 2,199,638                | 3,597,176                      |
| 10                                                                                   | Coffee, tea and spices.....                          | 7                         | 1,404,384          | 147             | 163,734                   | 2,217,002                | 3,318,173                      |
| 11                                                                                   | Butter and cheese.....                               | 36                        | 1,500,266          | 358             | 439,592                   | 2,339,930                | 3,180,060                      |
| 12                                                                                   | Sheet metal products.....                            | 19                        | 9,367,422          | 422             | 467,202                   | 1,640,454                | 2,936,571                      |
| 13                                                                                   | Breweries.....                                       | 10                        | 5,415,687          | 244             | 345,881                   | 706,295                  | 2,656,532                      |
| 14                                                                                   | Coke and gas.....                                    | 6                         | 13,584,408         | 372             | 414,800                   | 768,826                  | 2,500,067                      |
| 15                                                                                   | Dyeing, cleaning and laundry<br>work.....            | 57                        | 2,430,733          | 1,359           | 1,082,850                 | 147,549                  | 2,038,306                      |
| 16                                                                                   | Boxes, wooden.....                                   | 19                        | 1,945,819          | 496             | 412,632                   | 677,989                  | 1,423,781                      |
| 17                                                                                   | Printing and bookbinding.....                        | 89                        | 1,981,766          | 584             | 698,320                   | 447,302                  | 1,415,894                      |
| 18                                                                                   | Biscuits, confectionery, cocoa and<br>chocolate..... | 44                        | 938,456            | 329             | 289,430                   | 474,802                  | 1,163,910                      |
| 19                                                                                   | Foods, stock and poultry.....                        | 8                         | 1,636,093          | 191             | 172,209                   | 589,810                  | 1,008,639                      |
| 20                                                                                   | All other leading industries <sup>1</sup> .....      | 9                         | 67,491,725         | 3,183           | 5,436,700                 | 12,278,164               | 25,031,744                     |
| <b>Totals, Leading Industries.....</b>                                               |                                                      | <b>1,087</b>              | <b>319,086,120</b> | <b>23,254</b>   | <b>26,466,636</b>         | <b>57,040,492</b>        | <b>129,043,701</b>             |
| <b>Totals, All Industries.....</b>                                                   |                                                      | <b>1,643</b>              | <b>362,879,441</b> | <b>29,488</b>   | <b>33,210,405</b>         | <b>65,969,568</b>        | <b>140,538,016</b>             |
| Percentages of the above leading<br>industries to totals of all indus-<br>tries..... |                                                      | 66.2                      | 87.9               | 78.9            | 79.7                      | 86.5                     | 85.4                           |

<sup>1</sup>Includes condensed milk, distilleries, fertilizers, sugar refineries and non-ferrous metal smelting and refining.

## Section 4.—Principal Factors in Manufacturing Production.

### Subsection 1.—Capital Employed.

In a retrospective study of capital employed in Canadian manufactures since 1900, the remarkable increase denotes rapid growth in industrial operations. From 1900 to 1905 the capital increased from \$446,900,000 to \$833,900,000, and advanced to \$1,958,700,000 in 1915. During this period returns were received from establishments with 5 hands and over, and while the rise in wholesale prices did not exceed 37 p.c., the capital employed in manufactures increased nearly 340 p.c.

The capital investment in 1932, in all establishments irrespective of the number of employees, was \$4,741,255,610 as compared with \$4,961,312,408 in 1931 and with \$2,696,154,030 in 1917, an increase of 76 p.c. in 15 years.

The provincial distribution of the manufactures of Canada may be illustrated by the investment of capital. Capital employed in Ontario was 48.3 p.c. of the total in 1917, 52.4 p.c. in 1923 and 45.2 p.c. in 1932. The percentages employed in the plants of Quebec were: 29.4 in 1917, 29.8 in 1923 and 34.4 in 1932. British Columbia held third place in 1932 with a capital investment of 7.7 p.c. of the total, while Manitoba, Nova Scotia, New Brunswick, Alberta and Saskatchewan followed in the order named, with proportions varying between 4.0 p.c. and 1.3 p.c. (Table 18.)

From a survey of the industrial groups in which the capital of the country is invested, it appears that the central electric stations industry led, in 1932, with an investment of 28.2 p.c. of the total. The wood and paper group was second with 20.1 p.c., the iron and its products group third with 12.8 p.c. and the vegetable products group fourth with 10.9 p.c. Up to 1931 the wood and paper group had long been first in the amount of capital employed, but in that year the central electric stations group assumed the premier position. (Table 18.)

The statistics of capital employed in the manufacturing industries are of interest in deducing the proportions of fixed and liquid assets. In 1923, land, buildings, machinery and tools constituted 64 p.c. of the total capital, while in 1929 the proportion had increased to 66 p.c. and in 1932 to 74 p.c. The fixed assets amounted to \$3,511,904,606 in 1932, while current assets, including inventories of raw materials and finished products, bills and accounts receivable, cash and sundries, were valued at \$1,229,351,004. Details by provinces and industrial groups are given in Table 19.

**18.—Percentage Distribution of Capital Employed in the Manufacturing Industries of Canada, by Provinces and Industrial Groups, 1917-32.**

| Province or Group.               | 1917.        | 1921.        | 1923.        | 1925.        | 1926.        | 1927.        | 1928.        | 1929.        | 1930.        | 1931.        | 1932.        |
|----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>PROVINCE.</b>                 |              |              |              |              |              |              |              |              |              |              |              |
| Prince Edward Island.....        | 0.1          | 0.1          | 0.1          | 0.1          | 0.1          | 0.1          | 0.1          | 0.1          | 0.1          | 0.1          | 0.1          |
| Nova Scotia.....                 | 4.8          | 3.3          | 3.3          | 3.1          | 3.0          | 2.9          | 2.9          | 2.7          | 2.6          | 2.6          | 2.7          |
| New Brunswick.....               | 2.4          | 3.1          | 2.5          | 2.4          | 2.4          | 2.3          | 2.4          | 2.3          | 2.7          | 2.6          | 2.5          |
| Quebec.....                      | 29.4         | 30.8         | 29.8         | 29.9         | 30.6         | 31.7         | 33.1         | 32.9         | 33.2         | 33.5         | 34.4         |
| Ontario.....                     | 48.3         | 50.6         | 52.4         | 50.4         | 49.8         | 49.2         | 47.6         | 47.6         | 46.6         | 46.0         | 45.2         |
| Manitoba.....                    | 3.5          | 2.9          | 2.7          | 3.2          | 3.2          | 3.5          | 3.3          | 3.4          | 3.6          | 3.8          | 4.0          |
| Saskatchewan.....                | 1.1          | 1.0          | 0.9          | 0.8          | 0.8          | 0.9          | 0.9          | 1.1          | 1.3          | 1.4          | 1.3          |
| Alberta.....                     | 2.3          | 1.7          | 1.8          | 1.8          | 1.8          | 1.9          | 2.0          | 2.1          | 2.1          | 2.2          | 2.1          |
| British Columbia and Yukon..     | 8.1          | 6.5          | 6.5          | 8.3          | 8.3          | 7.5          | 7.7          | 7.8          | 7.8          | 7.8          | 7.7          |
| <b>Totals.....</b>               | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> |
| <b>INDUSTRIAL GROUP.</b>         |              |              |              |              |              |              |              |              |              |              |              |
| Vegetable products.....          | 10.2         | 11.3         | 11.4         | 11.5         | 11.3         | 11.4         | 11.1         | 11.2         | 10.9         | 11.0         | 10.9         |
| Animal products.....             | 7.7          | 6.3          | 6.1          | 5.5          | 5.6          | 5.4          | 5.1          | 4.8          | 4.5          | 4.3          | 4.1          |
| Textiles and textile products... | 7.3          | 8.1          | 8.4          | 8.1          | 8.0          | 8.0          | 7.7          | 7.5          | 7.1          | 7.3          | 6.8          |
| Wood and paper.....              | 19.9         | 24.3         | 23.7         | 23.8         | 23.3         | 23.6         | 24.2         | 22.7         | 23.5         | 21.2         | 20.1         |
| Iron and its products.....       | 23.5         | 18.1         | 16.3         | 14.9         | 15.0         | 14.7         | 14.7         | 14.8         | 14.6         | 13.6         | 12.8         |
| Non-ferrous metals.....          | 2.6          | 3.3          | 3.2          | 4.8          | 5.1          | 4.8          | 5.3          | 5.9          | 6.2          | 6.4          | 5.7          |
| Non-metallic minerals.....       | 5.6          | 6.6          | 7.2          | 6.3          | 6.6          | 6.4          | 6.3          | 6.5          | 6.5          | 6.6          | 6.6          |
| Chemicals and allied products.   | 6.5          | 3.7          | 3.8          | 3.3          | 3.3          | 3.1          | 3.1          | 3.3          | 3.2          | 3.3          | 3.4          |
| Miscellaneous industries.....    | 3.5          | 3.1          | 2.7          | 2.7          | 2.8          | 2.6          | 2.5          | 2.5          | 1.6          | 1.5          | 1.4          |
| Central electric stations.....   | 13.2         | 15.2         | 17.2         | 19.1         | 19.0         | 20.0         | 20.0         | 20.8         | 21.9         | 24.8         | 28.2         |

19.—Forms of Capital Employed in the Manufacturing Industries of Canada, by Provinces and by Groups of Industries, 1932, and Totals for Representative Years, 1923-32.

| Province or Group.                   | Estab-<br>lish-<br>ments. | Land,<br>Buildings,<br>Fixtures,<br>Machinery<br>and Tools. | Materials<br>on Hand,<br>Stocks in<br>Process,<br>Fuel and<br>Miscel-<br>laneous<br>Supplies<br>on Hand. | Inventory<br>Value of<br>Finished<br>Products<br>on Hand. | Operating<br>Capital,<br>Cash, Bills<br>and<br>Accounts<br>Receivable,<br>Prepaid<br>Expenses,<br>etc. | Total<br>Capital.    |
|--------------------------------------|---------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------|
| PROVINCE.                            | No.                       | \$                                                          | \$                                                                                                       | \$                                                        | \$                                                                                                     | \$                   |
| Prince Edward Island.....            | 274                       | 2,848,807                                                   | 337,382                                                                                                  | 146,246                                                   | 534,760                                                                                                | 3,867,195            |
| Nova Scotia.....                     | 1,404                     | 94,177,923                                                  | 11,247,005                                                                                               | 4,949,371                                                 | 15,265,408                                                                                             | 125,639,707          |
| New Brunswick.....                   | 841                       | 86,799,699                                                  | 8,214,939                                                                                                | 5,296,488                                                 | 17,143,042                                                                                             | 117,454,168          |
| Quebec.....                          | 7,851                     | 1,280,486,275                                               | 119,858,790                                                                                              | 58,391,114                                                | 174,219,800                                                                                            | 1,632,955,979        |
| Ontario.....                         | 9,844                     | 1,494,715,854                                               | 166,309,944                                                                                              | 146,454,945                                               | 336,528,114                                                                                            | 2,144,008,857        |
| Manitoba.....                        | 970                       | 155,779,758                                                 | 11,696,059                                                                                               | 6,086,895                                                 | 16,982,940                                                                                             | 190,545,652          |
| Saskatchewan.....                    | 774                       | 47,618,981                                                  | 4,371,810                                                                                                | 3,441,577                                                 | 7,862,455                                                                                              | 63,294,823           |
| Alberta.....                         | 943                       | 76,789,261                                                  | 6,756,264                                                                                                | 6,914,420                                                 | 10,149,843                                                                                             | 100,609,788          |
| British Columbia and Yukon           | 1,643                     | 272,688,048                                                 | 22,625,617                                                                                               | 25,853,051                                                | 41,712,725                                                                                             | 362,879,441          |
| INDUSTRIAL GROUP.                    |                           |                                                             |                                                                                                          |                                                           |                                                                                                        |                      |
| Vegetable products.....              | 5,244                     | 289,516,937                                                 | 73,813,517                                                                                               | 59,755,379                                                | 93,270,316                                                                                             | 516,356,149          |
| Animal products.....                 | 4,413                     | 118,074,123                                                 | 21,107,948                                                                                               | 20,752,000                                                | 33,081,391                                                                                             | 193,015,462          |
| Textiles and textile products....    | 2,002                     | 197,478,593                                                 | 38,570,592                                                                                               | 24,625,216                                                | 60,918,661                                                                                             | 321,593,062          |
| Wood and paper products.....         | 7,844                     | 723,710,165                                                 | 70,949,937                                                                                               | 34,243,528                                                | 120,735,602                                                                                            | 954,639,232          |
| Iron and its products.....           | 1,233                     | 365,496,464                                                 | 60,429,930                                                                                               | 51,345,344                                                | 131,347,780                                                                                            | 608,619,518          |
| Non-ferrous metal products.....      | 452                       | 170,540,545                                                 | 24,549,228                                                                                               | 30,774,367                                                | 46,181,301                                                                                             | 272,045,441          |
| Non-metallic mineral products.....   | 1,182                     | 238,589,314                                                 | 25,909,726                                                                                               | 21,603,574                                                | 26,467,065                                                                                             | 312,569,679          |
| Chemicals and chemical products..... | 662                       | 92,318,222                                                  | 18,588,650                                                                                               | 11,334,914                                                | 38,688,168                                                                                             | 160,929,954          |
| Miscellaneous industries.....        | 479                       | 40,097,656                                                  | 7,011,501                                                                                                | 3,099,785                                                 | 15,391,184                                                                                             | 65,600,126           |
| Central electric stations.....       | 1,033                     | 1,271,082,587                                               | 10,486,781                                                                                               | -                                                         | 54,317,619                                                                                             | 1,335,886,987        |
| <b>Totals, 1932.....</b>             | <b>24,544</b>             | <b>3,511,904,606</b>                                        | <b>351,417,810</b>                                                                                       | <b>257,534,197</b>                                        | <b>620,399,087</b>                                                                                     | <b>4,741,255,610</b> |
| <b>1931.....</b>                     | <b>24,501</b>             | <b>3,526,611,580</b>                                        | <b>439,152,275</b>                                                                                       | <b>282,385,503</b>                                        | <b>713,163,050</b>                                                                                     | <b>4,961,312,408</b> |
| 1930.....                            | 24,020                    | 3,584,344,724                                               | 848,927,120                                                                                              | 770,044,916                                               | 5,203,316,760                                                                                          |                      |
| 1929.....                            | 23,597                    | 3,377,590,099                                               | 878,783,691                                                                                              | 826,640,964                                               | 5,083,014,754                                                                                          |                      |
| 1927.....                            | 22,936                    | 2,866,366,199                                               | 773,824,436                                                                                              | 697,440,923                                               | 4,337,631,558                                                                                          |                      |
| 1924.....                            | 22,178                    | 2,310,293,012                                               | 677,168,191                                                                                              | 551,347,257                                               | 3,538,813,160                                                                                          |                      |
| 1923.....                            | 22,642                    | 2,565,497,811                                               | 655,775,934                                                                                              | 559,049,205                                               | 3,390,322,950                                                                                          |                      |

Subsection 2.—Employment in Manufactures.

The total number of persons employed in the manufacturing industries of Canada, according to the statistics collected for 1932, was 495,398, as compared with 557,426 in all such industries in 1931 and 694,434 in 1929. The 1932 employees included 95,070 salaried employees, this figure being obtained from the manufacturers at the end of the year, and 400,328 wage-earners, the average number employed as derived from the manufacturers' records of the numbers on the pay-rolls on the 15th of each of the twelve months. Prior to 1925, the number of wage-earners was computed as the sum of the number recorded each month divided by 12, whether the establishment was operating the 12 months or not. Beginning with the statistics for 1925, in seasonal industries which are in operation only a limited number of months in each year, such as sawmilling, fruit and vegetable canning, etc., the average was computed by dividing the sum of the wage-earners reported on the 15th of each month by the number of months in operation. This change of method increased the apparent number of employees, not only in seasonal industries but



also in the groups containing such seasonal industries and in provincial and Dominion totals. Consequently, the change of method exerted a reducing influence on apparent average wages and on all other averages per wage-earner and per employee. In 1931, however, the former method of computing the average number of wage-earners was again adopted. A change was also made in the compilation of the number of salaried employees. Prior to 1931, owners who were working as ordinary wage-earners, such as small bakers, reported themselves as wage-earners. In 1931, however, all such owners were required to report themselves as salaried employees. In 1931, also, travelling salesmen who were attached to the plant and devoted all or the greater part of their time in selling the products of that plant were included with salaried employees. Prior to this they were not reported at all. These changes, therefore, explain the apparent increase in the number of salaried employees in 1931 as compared with the previous year. This apparent increase was offset in part by a corresponding decrease in the number of wage-earners. Actually there was a decrease in salaried employees.

The number of salaried employees and of wage-earners, as thus ascertained, is given for each of the years since 1917, the year of the first annual census of manufacturing production, in Table 20. Then, taking the percentages of the wage-earners and the total employees in each year to those of 1917, and dividing these percentages into the volume of manufacturing production in each year (see pp. 450 to 453 for the index of volume), the quotients give tentative conclusions regarding the efficiency of production per wage-earner and per employee in years subsequent to 1917, as compared with that year. Since central electric stations were excluded in computing the index of the volume of production, employees in these establishments have been excluded also in computing the percentages relative to 1917 for both wage-earners and total employees, and consequently from the indexes of efficiency of production. These indexes of the efficiency of production are, of course, affected by the changes in the method of computing the number of employees adopted in 1925 and then again in 1931. Inasmuch as the change increased the apparent number of employees between 1925 and 1930, it proportionately decreased the index of the efficiency of production. The table illustrates the development of modern industry which has been able to raise real wages through a large increase in production per wage-earner, accomplished by better organization and the use of improved equipment. Capital invested in manufacturing industries, exclusive of central electric stations, has increased by 45.0 p. c., from 1917 to 1932, compared with a decrease of 28.5 p. c. in wage-earners, while the horse-power used per wage-earner has increased from about 3 in 1917 to 11 in 1932. The factor of better organization is not susceptible of measurement. However, salaried employees have increased by 35.2 p. c. since 1917, or more nearly in proportion to the growth in production than have wage-earners. The result of these developments has been the increase of 46.9 p. c. in the volume of production per wage-earner and a smaller increase of 34.1 p. c. per employee, owing to the increased proportion of salaried employees in the total. The indexes may be considered as supplying satisfactory evidence of a general gain in volume of production per person employed. In this connection it should be remembered, however, that in 1917, owing to the large numbers overseas, many persons of low efficiency were being employed, their inefficiency being concealed at the time by the prevailing inflation of prices; it is possible that the sudden rise in the indexes of efficiency from 1920 and 1921 may be partly accounted for by their elimination in the contraction of industrial operations which occurred at that time.

**20.—Salaried Employees and Wage-Earners in the Manufacturing Industries of Canada, with Volume of Manufacturing Production and Comparative Efficiency of Production, 1917-32.**

Note.—Employees of Central Electric Stations are excluded in this table since factors of production and efficiency for that industry are not representative and would vitiate the result.

| Year.     | Salaried Employees. | Wage-Earners. | Total Employees. | Percentage relative to 1917. |                     | Index Number of Volume of Mfd. Products. | Efficiency of Production. |               |
|-----------|---------------------|---------------|------------------|------------------------------|---------------------|------------------------------------------|---------------------------|---------------|
|           |                     |               |                  | Of Wage-Earners.             | Of Total Employees. |                                          | Per Wage-Earner.          | Per Employee. |
|           | No.                 | No.           | No.              | p.c.                         | p.c.                |                                          |                           |               |
| 1917..... | 65,380              | 547,467       | 612,847          | 100.0                        | 100.0               | 100.0                                    | 100.0                     | 100.0         |
| 1918..... | 66,733              | 541,931       | 508,664          | 99.0                         | 99.3                | 102.0                                    | 103.0                     | 103.2         |
| 1919..... | 77,125              | 524,122       | 601,247          | 95.7                         | 98.1                | 98.1                                     | 102.5                     | 100.0         |
| 1920..... | 78,334              | 520,559       | 598,893          | 95.1                         | 97.7                | 95.0                                     | 99.9                      | 97.2          |
| 1921..... | 70,253              | 375,109       | 445,362          | 68.5                         | 72.6                | 86.1                                     | 125.6                     | 118.6         |
| 1922..... | 71,586              | 392,160       | 463,746          | 71.6                         | 75.6                | 96.0                                     | 134.1                     | 127.0         |
| 1923..... | 73,374              | 440,798       | 514,172          | 80.5                         | 83.9                | 104.8                                    | 130.2                     | 124.9         |
| 1924..... | 70,671              | 425,004       | 495,675          | 77.6                         | 80.8                | 102.9                                    | 132.7                     | 127.3         |
| 1925..... | 71,897              | 459,065       | 530,962          | 83.8                         | 86.6                | 112.7                                    | 134.5                     | 130.1         |
| 1926..... | 75,990              | 492,143       | 568,133          | 89.9                         | 92.7                | 128.1                                    | 142.5                     | 138.2         |
| 1927..... | 79,474              | 524,751       | 604,225          | 95.8                         | 98.6                | 136.5                                    | 142.5                     | 138.5         |
| 1928..... | 85,029              | 557,139       | 642,168          | 101.7                        | 104.7               | 148.8                                    | 146.3                     | 142.0         |
| 1929..... | 89,793              | 558,477       | 678,270          | 107.5                        | 110.6               | 157.5                                    | 146.6                     | 142.4         |
| 1930..... | 85,778              | 540,803       | 626,581          | 98.8                         | 102.2               | 142.8                                    | 144.5                     | 139.7         |
| 1931..... | 92,780              | 447,632       | 540,412          | 81.7                         | 88.2                | 124.1                                    | 151.9                     | 140.7         |
| 1932..... | 88,434              | 391,569       | 480,003          | 71.5                         | 78.3                | 105.0                                    | 146.9                     | 134.1         |

Statistics of employment in manufacturing industries during 1932 derived from the Census of Manufactures, are shown in Table 7 of this chapter (pp. 462 to 467). According to these statistics, the 24,544 establishments covered, employed 95,070 salaried employees and 400,328 wage-earners, a total of 495,398 persons. Out of every 1,000 persons employed in manufacturing, 192 were classed as salary-earners and 808 as wage-earners; the former earned 32.5 p.c. and the latter 67.5 p.c. of the total amount paid out as remuneration for services.

**Distribution of Employees in 1932.**—An analysis of the returns by provinces shows that 48,228 or 50.7 p.c. of all the employees on salaries were employed in Ontario; of this number 36,312 were males and 11,916 were females. The province of Quebec, with 27,543 persons or 29.0 p.c. of the total, recorded the second largest number of salaried workers; of these 22,298 were males and 5,245 were females. British Columbia ranked third with 5,700 or 6.0 p.c. of the total salaried employees.

Of the wage-earners employed, who numbered 400,328, 47.7 p.c. were employed in Ontario, 33.5 p.c. in Quebec and 5.9 p.c. in British Columbia. It is also interesting to note that out of every 1,000 salaried employees 218 were females, while in the case of wage-earners, 247 out of every 1,000 were females. (See Tables 21 and 25.)

The wood and paper industries with 23,437 salaried employees reported a larger number than any other group, having 24.6 p.c. of the total. The vegetable products group came next with 14,305 salaried employees or 15.1 p.c. of the total. The textile industries gave employment to a proportionately greater number of female salaried employees than any other group. Out of every 1,000 salaried employees in this group 323 were females, as compared with only 205 for all the other groups.

In the number of wage-earners employed, the textile industries came first with 91,559 or 22.9 p.c. of the total. This was closely followed by the wood and paper products group with 84,397 wage-earners or 21.1 p.c. of the total. It is of interest to note that out of every 1,000 wage-earners in the textile industries 578 were females,

while in all the other groups only 149 were females. The importance of the textile industries in providing employment for females is strikingly illustrated by the fact that out of all female employees engaged in the manufacturing industries of Canada, 47.1 p.c. were found in the textile group.

**21.—Percentages of Male and Female Employees on Salaries and Wages and Percentages of Total Salaries and Wages, by Provinces and Groups of Industries, 1932.**

NOTE.—For actual figures see Table 25, p. 496.

| Province or Group.                 | Employees on Salaries. |              |              | Salaries.    | Employees on Wages. |              |              | Wages.       |
|------------------------------------|------------------------|--------------|--------------|--------------|---------------------|--------------|--------------|--------------|
|                                    | Males.                 | Females.     | Total.       |              | Males.              | Females.     | Total.       |              |
| PROVINCE.                          | p.c.                   | p.c.         | p.c.         | p.c.         | p.c.                | p.c.         | p.c.         | p.£.         |
| Prince Edward Island.....          | 0.3                    | 0.2          | 0.3          | 0.1          | 0.2                 | 0.3          | 0.2          | 0.1          |
| Nova Scotia.....                   | 2.6                    | 2.2          | 2.5          | 2.0          | 2.9                 | 2.1          | 2.7          | 2.3          |
| New Brunswick.....                 | 2.2                    | 2.0          | 2.1          | 2.0          | 2.7                 | 1.9          | 2.5          | 2.2          |
| Quebec.....                        | 30.0                   | 25.3         | 29.0         | 28.8         | 30.9                | 41.1         | 33.5         | 30.5         |
| Ontario.....                       | 48.8                   | 57.5         | 50.7         | 52.9         | 48.0                | 46.8         | 47.7         | 49.6         |
| Manitoba.....                      | 4.6                    | 4.4          | 4.6          | 4.4          | 4.9                 | 3.3          | 4.5          | 4.9          |
| Saskatchewan.....                  | 2.2                    | 1.3          | 2.0          | 1.7          | 1.1                 | 0.3          | 0.9          | 1.1          |
| Alberta.....                       | 3.0                    | 2.1          | 2.8          | 2.4          | 2.4                 | 1.1          | 2.1          | 2.3          |
| British Columbia and Yukon         | 6.3                    | 5.0          | 6.0          | 5.7          | 6.9                 | 3.1          | 5.9          | 7.0          |
| <b>Totals.....</b>                 | <b>100.0</b>           | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b>        | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> |
| INDUSTRIAL GROUP.                  |                        |              |              |              |                     |              |              |              |
| Vegetable products.....            | 15.5                   | 13.6         | 15.1         | 14.6         | 13.2                | 18.4         | 14.5         | 13.4         |
| Animal products.....               | 10.8                   | 9.1          | 10.4         | 8.5          | 10.3                | 9.1          | 10.0         | 9.4          |
| Textile products.....              | 9.6                    | 16.5         | 11.1         | 11.5         | 12.9                | 53.5         | 22.9         | 18.7         |
| Wood and paper products.....       | 25.4                   | 22.1         | 24.6         | 23.2         | 25.1                | 8.8          | 21.1         | 21.8         |
| Iron and its products.....         | 13.5                   | 12.1         | 13.2         | 15.0         | 19.7                | 2.3          | 15.4         | 16.9         |
| Non-ferrous metal products.....    | 6.5                    | 7.2          | 6.7          | 7.4          | 5.7                 | 3.2          | 5.1          | 6.0          |
| Non-metallic mineral products..... | 4.2                    | 3.3          | 4.0          | 4.2          | 5.3                 | 0.5          | 4.1          | 5.2          |
| Chemicals and allied products..... | 5.1                    | 6.7          | 5.4          | 6.2          | 2.5                 | 2.5          | 2.5          | 2.9          |
| Miscellaneous industries.....      | 2.4                    | 2.6          | 2.5          | 2.5          | 2.4                 | 1.7          | 2.2          | 2.2          |
| Central electric stations.....     | 7.0                    | 6.8          | 7.0          | 6.9          | 2.9                 | —            | 2.2          | 3.5          |

**Monthly Record of Employment in Manufactures.**—A monthly record of the number of wage-earners employed in Canadian manufactures, as compiled from the Census of Industry, is given in Table 22 for the years 1922 to 1932 and by sex for 1922 and 1932. Ordinarily, manufacturing employment in Canada reaches its highest point during the summer months. Some of the seasonal industries, such as canning, are most active then, textile industries are preparing winter goods and industry generally feels the active demand of the agricultural purchasing power resulting from the prospects of the season's harvest. In 1929, however, the rising tide of "good times" was checked about midsummer and then the recession set in during the autumn with the stock market crash. Employment during 1930, 1931 and 1932 declined steadily, the monthly employment figures in each case being lower than the corresponding month of the previous year. The peak of employment was reached in June, 1929, when 596,544 wage-earners were on the payrolls. This compares with the peak month in 1930 of 556,386 wage-earners, 484,661 the peak month of 1931 and 417,685 the peak month in 1932.



**22.—Total Number of Wage-Earners Employed in the Manufacturing Industries of Canada, by Months, 1922-1932 and by Sex, 1922 and 1932.**

| Month.         | 1922.   | 1923.   | 1924.   | 1925.   | 1926.   | 1927.   |
|----------------|---------|---------|---------|---------|---------|---------|
| January.....   | 330,487 | 384,166 | 400,241 | 401,538 | 432,139 | 464,023 |
| February.....  | 342,959 | 395,896 | 408,473 | 411,966 | 445,179 | 477,624 |
| March.....     | 355,340 | 409,737 | 417,452 | 425,992 | 459,554 | 491,085 |
| April.....     | 366,478 | 426,725 | 428,383 | 444,032 | 473,088 | 500,370 |
| May.....       | 388,734 | 448,715 | 446,262 | 466,114 | 494,156 | 518,762 |
| June.....      | 400,165 | 457,938 | 447,699 | 471,474 | 507,889 | 527,914 |
| July.....      | 397,416 | 453,506 | 440,726 | 467,012 | 510,887 | 525,486 |
| August.....    | 395,741 | 444,721 | 430,424 | 465,784 | 505,917 | 521,929 |
| September..... | 398,653 | 441,839 | 430,092 | 472,452 | 506,917 | 520,950 |
| October.....   | 391,492 | 434,615 | 427,957 | 470,281 | 503,679 | 515,107 |
| November.....  | 385,222 | 414,648 | 407,182 | 452,426 | 484,400 | 497,924 |
| December.....  | 373,954 | 399,557 | 393,472 | 437,658 | 465,248 | 480,096 |

| Month.         | 1923.   | 1929.   | 1930.   | 1931.   | 1932.   |
|----------------|---------|---------|---------|---------|---------|
| January.....   | 473,152 | 521,227 | 510,061 | 442,547 | 390,249 |
| February.....  | 490,311 | 537,816 | 517,562 | 455,811 | 400,680 |
| March.....     | 506,230 | 555,908 | 527,966 | 468,222 | 408,353 |
| April.....     | 522,566 | 575,269 | 537,110 | 476,132 | 409,860 |
| May.....       | 549,212 | 594,969 | 556,388 | 484,661 | 417,685 |
| June.....      | 560,866 | 596,544 | 552,166 | 476,692 | 414,536 |
| July.....      | 562,371 | 594,879 | 539,354 | 463,694 | 397,372 |
| August.....    | 567,799 | 588,509 | 529,403 | 456,783 | 394,277 |
| September..... | 568,652 | 586,439 | 530,130 | 460,081 | 401,534 |
| October.....   | 562,687 | 574,566 | 512,215 | 434,556 | 396,253 |
| November.....  | 544,213 | 547,697 | 486,926 | 430,618 | 385,460 |
| December.....  | 524,448 | 519,331 | 464,086 | 417,367 | 364,216 |

**NUMBER OF EMPLOYEES BY SEX.**

| Month.         | 1922.   |          |         | 1932.   |          |         |
|----------------|---------|----------|---------|---------|----------|---------|
|                | Males.  | Females. | Total.  | Males.  | Females. | Total.  |
| January.....   | 249,912 | 80,575   | 330,487 | 296,901 | 93,348   | 390,249 |
| February.....  | 259,408 | 83,551   | 342,959 | 303,218 | 97,462   | 400,680 |
| March.....     | 270,079 | 85,261   | 355,340 | 309,394 | 98,959   | 408,353 |
| April.....     | 281,051 | 85,427   | 366,478 | 309,934 | 99,926   | 409,860 |
| May.....       | 300,325 | 88,409   | 388,734 | 315,296 | 102,389  | 417,685 |
| June.....      | 310,625 | 89,540   | 400,165 | 313,515 | 101,021  | 414,536 |
| July.....      | 310,250 | 87,166   | 397,416 | 303,392 | 93,980   | 397,372 |
| August.....    | 307,464 | 88,277   | 395,741 | 297,048 | 97,229   | 394,277 |
| September..... | 305,148 | 93,505   | 398,653 | 296,691 | 104,843  | 401,534 |
| October.....   | 298,203 | 93,289   | 391,492 | 293,703 | 102,550  | 396,253 |
| November.....  | 292,741 | 92,481   | 385,222 | 285,542 | 99,918   | 385,460 |
| December.....  | 284,084 | 89,870   | 373,954 | 271,904 | 92,312   | 364,216 |

**Hours Worked by Wage-Earners.**—Weekly hours worked by wage-earners in the month of highest employment in 1932 are shown in Tables 23 and 24 by provinces and groups and for the forty leading industries. An explanation should be made of the term "month of highest employment" as used in connection with these tables. Each firm is required to report the number of wage-earners working specified hours per week during the month in which the greatest number were employed. It therefore happens that in the case of one firm the month of highest employment might be May, while in that of another it might be October. The month of highest employment as shown in the heading of Table 23, therefore, is not any particular month, and the total number of workers is the sum of those employed in the different months of highest employment as reported by all firms. In the particular case of a given industry, however, the month of highest employment is the same for a majority of the firms operating. This would apply to some extent in the broad industrial groups in the second half of Table 23, but more particularly to the forty industries of Table 24. For Canada as a whole, 53 p.c. of the wage-earners in 1932 worked 48 hours or less, 14 p.c. worked between 49 and 50 hours and 33 p.c. worked over 50 hours per week. Average hours worked per week may also be worked out for the provinces and industrial groups and for the forty leading industries from the figures shown in the tables following.



## 23.—Wage-Earners Working Specified Numbers of Hours in the Month of Highest Employment in 1932, by Provinces and Groups.

(These are the regular hours worked per week and do not therefore include overtime.)

| Province or Group.                   | 40 hours<br>or less. | 41-43<br>hours. | 44<br>hours.  | 45-47<br>hours. | 48<br>hours.  | 49-50<br>hours. | 51-53<br>hours. | 54<br>hours.  | 55<br>hours.  | 56-59<br>hours. | 60<br>hours.  | Over<br>60 hours. |
|--------------------------------------|----------------------|-----------------|---------------|-----------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|---------------|-------------------|
| <b>PROVINCE.</b>                     |                      |                 |               |                 |               |                 |                 |               |               |                 |               |                   |
| Prince Edward Island.....            | 150                  | 10              | 73            | 2               | 258           | 39              | 59              | 453           | 56            | 45              | 1,116         | 5                 |
| Nova Scotia.....                     | 1,272                | 369             | 665           | 316             | 3,020         | 1,106           | 472             | 3,696         | 968           | 1,438           | 4,377         | 668               |
| New Brunswick.....                   | 2,898                | 67              | 646           | 400             | 3,223         | 1,848           | 188             | 2,597         | 60            | 1,171           | 2,364         | 720               |
| Quebec.....                          | 25,111               | 3,084           | 13,547        | 9,330           | 23,397        | 21,864          | 6,275           | 6,697         | 26,714        | 5,191           | 20,818        | 5,281             |
| Ontario.....                         | 37,849               | 5,316           | 40,144        | 18,431          | 35,203        | 44,242          | 7,065           | 12,402        | 12,131        | 7,130           | 17,258        | 6,455             |
| Manitoba.....                        | 6,739                | 245             | 5,543         | 1,629           | 3,280         | 1,042           | 444             | 1,215         | 465           | 627             | 1,081         | 819               |
| Saskatchewan.....                    | 375                  | 37              | 413           | 283             | 1,377         | 273             | 119             | 550           | 88            | 179             | 913           | 249               |
| Alberta.....                         | 2,556                | 541             | 1,253         | 621             | 2,816         | 395             | 241             | 1,148         | 91            | 152             | 1,520         | 93                |
| British Columbia.....                | 3,527                | 543             | 5,031         | 1,551           | 13,755        | 1,773           | 329             | 2,659         | 226           | 2,808           | 619           | 291               |
| <b>Totals.....</b>                   | <b>80,477</b>        | <b>10,212</b>   | <b>67,315</b> | <b>32,563</b>   | <b>86,329</b> | <b>72,552</b>   | <b>15,132</b>   | <b>31,417</b> | <b>40,799</b> | <b>18,741</b>   | <b>50,066</b> | <b>14,571</b>     |
| <b>GROUP.</b>                        |                      |                 |               |                 |               |                 |                 |               |               |                 |               |                   |
| Vegetable products.....              | 9,901                | 2,213           | 8,160         | 6,142           | 8,459         | 9,326           | 2,327           | 9,282         | 5,359         | 1,960           | 12,013        | 4,026             |
| Animal products.....                 | 3,511                | 856             | 3,976         | 2,543           | 5,770         | 8,260           | 3,011           | 8,476         | 5,466         | 2,648           | 6,730         | 1,335             |
| Textiles and textile products.....   | 6,554                | 1,931           | 22,206        | 8,927           | 8,790         | 26,881          | 5,255           | 1,702         | 20,666        | 1,316           | 2,714         | 435               |
| Wood and paper products.....         | 13,443               | 1,927           | 12,065        | 4,634           | 34,808        | 7,405           | 1,294           | 6,207         | 3,622         | 4,435           | 21,780        | 4,860             |
| Iron and its products.....           | 36,049               | 1,085           | 9,668         | 4,361           | 7,784         | 11,054          | 1,847           | 1,731         | 3,371         | 1,337           | 1,919         | 1,245             |
| Non-ferrous metal products.....      | 4,017                | 693             | 3,445         | 2,098           | 7,478         | 2,184           | 390             | 470           | 400           | 3,827           | 234           | 258               |
| Non-metallic mineral products.....   | 1,913                | 668             | 1,886         | 722             | 6,685         | 1,884           | 277             | 2,020         | 588           | 1,644           | 2,574         | 994               |
| Chemicals and chemical products..... | 1,916                | 490             | 2,259         | 1,235           | 2,133         | 1,516           | 277             | 614           | 411           | 761             | 540           | 254               |
| Miscellaneous industries.....        | 1,927                | 208             | 2,292         | 1,582           | 1,904         | 2,631           | 272             | 295           | 686           | 234             | 291           | 223               |
| Central electric stations.....       | 1,246                | 141             | 1,358         | 319             | 2,468         | 1,541           | 242             | 620           | 230           | 579             | 1,271         | 941               |

24.—Wage-Earners Working Specified Numbers of Hours in the Month of Highest Employment in 1932, in each of the Forty Leading Industries.

| Industry.                                              | 40 hours<br>or less. | 41-43<br>hours. | 44<br>hours. | 45-47<br>hours. | 48<br>hours. | 49-50<br>hours. | 51-53<br>hours. | 54<br>hours. | 55<br>hours. | 56-59<br>hours. | 60<br>hours. | Over<br>60 hours. |
|--------------------------------------------------------|----------------------|-----------------|--------------|-----------------|--------------|-----------------|-----------------|--------------|--------------|-----------------|--------------|-------------------|
| 1 Pulp and paper.....                                  | 5,630                | 647             | 635          | 834             | 12,242       | 751             | 234             | 1,166        | 243          | 387             | 1,400        | 1,420             |
| 2 Central electric stations.....                       | 1,246                | 141             | 1,358        | 319             | 2,468        | 1,541           | 620             | 1,271        | 1,066        | 579             | 1,271        | 1,271             |
| 3 Slaughtering and meat packing.....                   | 550                  | 524             | 294          | 402             | 1,589        | 1,283           | 579             | 720          | 1,066        | 389             | 1,271        | 1,271             |
| 4 Flour and feed mills.....                            | 361                  | 41              | 221          | 61              | 725          | 1,172           | 316             | 1,431        | 264          | 169             | 1,431        | 1,431             |
| 5 Butter and cheese.....                               | 25                   | 53              | 53           | 16              | 1,045        | 148             | 415             | 2,699        | 50           | 3,504           | 1,446        | 1,446             |
| 6 Non-ferrous metal smelting.....                      | 62                   | 36              | 267          | 14              | 1,490        | —               | —               | 378          | —            | 145             | 7            | 43                |
| 7 Petroleum products.....                              | 22                   | —               | 26           | —               | 3,471        | 143             | 10              | 15           | —            | 80              | 158          | 158               |
| 8 Printing and publishing.....                         | 748                  | 324             | 1,551        | 1,154           | 4,628        | 348             | 149             | 138          | 32           | 444             | 1,195        | 1,195             |
| 9 Bread and other bakery products.....                 | 446                  | 75              | 435          | 365             | 2,500        | 1,060           | 636             | 5,141        | 616          | 444             | 3,195        | 3,195             |
| 10 Electrical apparatus and supplies.....              | 1,760                | 611             | 1,963        | 1,460           | 5,581        | 1,045           | 148             | 71           | 130          | 145             | 1,195        | 1,195             |
| 11 Automobiles.....                                    | 3,775                | 204             | 2,644        | 594             | 2,615        | 374             | 311             | 83           | 29           | 289             | 1,195        | 1,195             |
| 12 Hosiery and knitted goods.....                      | 403                  | 346             | 1,926        | 2,561           | 289          | 8,597           | 1,032           | 288          | 2,617        | 289             | 49           | 70                |
| 13 Clothing, factory, women's.....                     | 558                  | 122             | 7,719        | 1,844           | 3,146        | 2,535           | 167             | 126          | 81           | 106             | 11           | 23                |
| 14 Sugar refineries.....                               | 2,457                | 971             | 1,917        | 1,333           | 273          | 20              | 182             | 369          | 345          | 318             | 1,195        | 1,195             |
| 15 Rubber goods, including footwear.....               | 900                  | —               | 6            | 58              | —            | 3,279           | 190             | 1,195        | 10,944       | 318             | 1,195        | 1,195             |
| 16 Cotton yarn and cloth.....                          | 1,171                | 140             | 589          | 89              | 6,289        | 931             | 84              | 2,532        | 10,944       | 2,081           | 1,677        | 1,677             |
| 17 Sawmills.....                                       | 531                  | 66              | 279          | 263             | 439          | 587             | 127             | 188          | 586          | 151             | 16,519       | 2,888             |
| 18 Breweries.....                                      | 456                  | 428             | 1,079        | 1,679           | 1,148        | 2,299           | 473             | 575          | 1,382        | 32              | 287          | 162               |
| 19 Biscuits, confectionery, chocolate, etc.....        | 2,334                | 282             | 1,617        | 492             | 261          | 1,663           | 342             | 23           | 228          | 48              | 38           | 22                |
| 20 Tobacco, cigars and cigarettes.....                 | 16,289               | 13              | 258          | 308             | 317          | 308             | 359             | 43           | 30           | 1,644           | 345          | 91                |
| 21 Railway rolling-stock.....                          | 759                  | 230             | 643          | 1,156           | 863          | 4,038           | 1,109           | 415          | 3,319        | 1,644           | 345          | 91                |
| 22 Boots and shoes.....                                | 897                  | 276             | 2,986        | 617             | 4,885        | 233             | 31              | 10           | 1,481        | 666             | 5            | 10                |
| 23 Printing and bookbinding.....                       | 2,122                | 222             | 569          | 745             | 713          | 1,870           | 343             | 866          | 1,481        | 666             | 5            | 10                |
| 24 Fruit and vegetable preparations.....               | 242                  | 9               | 173          | 6               | 570          | 820             | 63              | 229          | 1,481        | 666             | 5            | 10                |
| 25 Coke and gas products.....                          | 4,419                | 279             | 1,150        | 853             | 242          | 2,399           | 190             | 797          | 637          | 666             | 73           | 1,027             |
| 26 Castings and forgings.....                          | 620                  | 243             | 1,691        | 332             | 812          | 1,363           | 190             | 24           | 831          | 201             | 870          | 1,027             |
| 27 Sheet metal products.....                           | 610                  | 109             | 5,120        | 272             | 311          | 964             | 27              | 23           | 831          | 65              | 870          | 344               |
| 28 Clothing, factory, men's.....                       | 2,749                | 49              | 852          | 301             | 601          | 1,359           | 75              | 51           | 369          | 84              | 192          | 126               |
| 29 Machinery.....                                      | 43                   | 65              | 153          | 244             | 980          | 1,406           | 1,200           | 8            | 1,098        | 427             | 431          | 97                |
| 30 Silk and artificial silk.....                       | 21                   | 20              | 414          | 414             | 162          | 169             | 5               | 6            | 1,098        | 427             | 431          | 97                |
| 31 Coffee, tea and spices.....                         | 2,003                | 172             | 952          | 255             | 883          | 1,520           | 132             | 900          | 869          | 782             | 100          | 92                |
| 32 Furniture.....                                      | 1,481                | 300             | 1,885        | 1,424           | 956          | 926             | 159             | 86           | 592          | —               | 5            | 4                 |
| 33 Furnishing goods, men's.....                        | 214                  | 49              | 654          | 669             | 121          | 213             | 87              | 7            | —            | —               | 45           | 16                |
| 34 Medicinal and pharmaceutical pre-<br>parations..... | 1,008                | 478             | 894          | 1,051           | 1,967        | 3,218           | 512             | 609          | 752          | 31              | 31           | 36                |
| 35 Dyeing, cleaning and laundry work.....              | 72                   | 226             | 878          | 737             | 882          | 1,094           | 206             | 3,577        | 142          | 46              | 13           | 12                |
| 36 Boxes and bags, paper.....                          | 1,676                | 5               | 86           | 41              | 1,472        | 205             | 128             | 3,577        | 142          | 202             | 4,429        | 308               |
| 37 Fish curing and packing.....                        | 73                   | 38              | 156          | 156             | 1,047        | 948             | 408             | 127          | 908          | 688             | 4,429        | 253               |
| 38 Primary iron and steel.....                         | 1,095                | 94              | 1,321        | 167             | 788          | 479             | 71              | 566          | 527          | 384             | 721          | 135               |
| 39 Planing mills.....                                  | 78                   | 12              | 686          | 155             | 196          | 290             | 64              | 69           | 136          | 19              | 13           | 41                |
| 40 Paints, pigments and varnishes.....                 | 60,959               | 7,743           | 46,015       | 23,445          | 70,848       | 51,326          | 10,550          | 25,489       | 31,468       | 15,037          | 42,299       | 11,873            |
| Totals, Forty Leading Industries.....                  | 80,477               | 10,212          | 67,315       | 33,563          | 86,329       | 72,352          | 15,192          | 31,417       | 40,799       | 18,711          | 50,066       | 11,571            |
| Totals, All Industries.....                            |                      |                 |              |                 |              |                 |                 |              |              |                 |              |                   |

1Exclusive of Quebec.

### Subsection 3.—Wages and Salaries in Canadian Manufacturing Industries, 1932.

The total salaries and wages disbursed by manufacturers in 1932 were \$505,883,323 paid to 495,398 workers, compared with \$813,049,842 paid to 694,434 persons in 1929 and \$509,382,027 paid to 621,694 persons in 1917. Of the 1932 aggregate, \$164,695,605 or 32·5 p.c. was paid to 95,070 salaried employees who constituted 19 p.c. of the total number, while \$341,187,718 or 67·5 p.c. was paid in wages to 400,328 wage-earners, who formed 81 p.c. of the aggregate number of employees.

The average salary paid in the manufacturing industries during 1932 was \$1,732, compared with \$1,872 in 1931 and \$1,299 in 1917, while the average wage in 1932 was \$852, compared with \$957 in 1931, \$1,045 in 1929 and \$760 in 1917. Thus during the sixteen years under review average salaries increased by 33 p.c., while average wages increased only by 12 p.c. (See Tables 4 and 25.)

**Average Earnings, by Provinces and Industrial Groups.**—In 1932 Ontario showed the highest average salary of \$1,806, followed by Quebec with \$1,724, Manitoba, with \$1,685 and British Columbia with \$1,658. The head offices of many large corporations being located in Montreal, Toronto, Vancouver and Winnipeg tends to raise the average salaries in these provinces. In the other Prairie Provinces the averages were smaller, especially in Saskatchewan, while in the Maritime Provinces the average salaries were still lower, there being comparatively few large executive offices in these provinces.

British Columbia, with an average wage of \$999, ranked highest in the Dominion in 1932, being \$147 higher than the general average. In the western provinces average wages are usually higher, this being due to an unusually small proportion of women workers, while many of the male employees were engaged in the better-paid wood and paper, electric light and power industries. In the four provinces east of the Ottawa river, average wages in manufacturing were under the mean for the Dominion, while from Ontario westward the opposite was the case. The seasonal nature of some of the leading industries, notably fish-preserving and lumbering, tends to reduce the mean wage in the Maritime Provinces and Quebec, while in addition to this, Quebec has a larger proportion of female wage-earners, employed chiefly in the textile, food and tobacco industries, than any other province, except Prince Edward Island.

The highest average salary, *viz.*, \$1,988, was reported by the chemical and allied products group, while the wood and paper products group, with an average salary of \$1,373 in 1932, was the lowest. In wages paid, central electric stations came first with an average of \$1,360, there being no female wage-earners in this industry. The textile industries, on the other hand, had the lowest average wage of \$697, this being due to the fact that in this group nearly 58 p.c. of the wage-earners were females. As stated in Table 21 of this chapter, of all the female wage-earners employed in the manufacturing industries of Canada, over 53 p.c. found employment in the textile industries.

**25.—Employees on Salaries and Wages in Manufacturing Industries, 1932, and Average Salaries and Wages, by Provinces and Groups, 1931 and 1932.**

| Province or Group.                 | Employees on Salaries. |               |               | Average Salaries. |              | Employees on Wages. |               |                | Average Wages. |            |
|------------------------------------|------------------------|---------------|---------------|-------------------|--------------|---------------------|---------------|----------------|----------------|------------|
|                                    | Male.                  | Female.       | Total.        | 1931.             | 1932.        | Male.               | Female.       | Total.         | 1931.          | 1932.      |
|                                    | No.                    | No.           | No.           | \$                | \$           | No.                 | No.           | No.            | \$             | \$         |
| <b>PROVINCE.</b>                   |                        |               |               |                   |              |                     |               |                |                |            |
| Prince Edward Island....           | 217                    | 45            | 262           | 885               | 835          | 619                 | 266           | 885            | 634            | 572        |
| Nova Scotia.....                   | 1,950                  | 457           | 2,407         | 1,461             | 1,326        | 8,634               | 2,101         | 10,735         | 822            | 746        |
| New Brunswick.....                 | 1,630                  | 393           | 2,023         | 1,718             | 1,543        | 8,104               | 1,860         | 9,964          | 843            | 753        |
| Quebec.....                        | 22,298                 | 5,245         | 27,543        | 1,890             | 1,724        | 93,245              | 40,651        | 133,896        | 880            | 777        |
| Ontario.....                       | 36,312                 | 11,916        | 48,228        | 1,903             | 1,806        | 144,675             | 46,328        | 191,003        | 985            | 885        |
| Manitoba.....                      | 3,428                  | 908           | 4,336         | 1,888             | 1,685        | 14,648              | 3,271         | 17,919         | 1,126          | 940        |
| Saskatchewan.....                  | 1,657                  | 280           | 1,937         | 1,548             | 1,448        | 3,263               | 335           | 3,598          | 1,073          | 997        |
| Alberta.....                       | 2,194                  | 440           | 2,634         | 1,729             | 1,526        | 7,408               | 1,137         | 8,540          | 1,054          | 921        |
| British Columbia and Yukon.....    | 4,678                  | 1,022         | 5,700         | 1,843             | 1,658        | 20,717              | 3,071         | 23,788         | 1,110          | 999        |
| <b>Totals.....</b>                 | <b>74,364</b>          | <b>20,706</b> | <b>95,070</b> | <b>1,872</b>      | <b>1,732</b> | <b>301,308</b>      | <b>99,020</b> | <b>400,328</b> | <b>957</b>     | <b>852</b> |
| <b>INDUSTRIAL GROUP.</b>           |                        |               |               |                   |              |                     |               |                |                |            |
| Vegetable products.....            | 11,489                 | 2,816         | 14,305        | 1,786             | 1,686        | 39,817              | 18,268        | 58,085         | 844            | 791        |
| Animal products.....               | 8,047                  | 1,876         | 9,923         | 1,526             | 1,404        | 30,972              | 9,058         | 40,030         | 869            | 801        |
| Textile products.....              | 7,130                  | 3,427         | 10,557        | 1,918             | 1,796        | 38,623              | 52,936        | 91,559         | 760            | 697        |
| Wood and paper products.           | 18,861                 | 4,576         | 23,437        | 1,822             | 1,373        | 75,695              | 8,702         | 84,397         | 992            | 879        |
| Iron and its products....          | 10,037                 | 2,503         | 12,540        | 2,137             | 1,965        | 59,426              | 2,248         | 61,674         | 1,085          | 935        |
| Non-ferrous metal products.....    | 4,860                  | 1,485         | 6,345         | 2,021             | 1,920        | 17,225              | 3,134         | 20,359         | 1,150          | 1,011      |
| Non-metallic mineral products..... | 3,146                  | 688           | 3,834         | 1,922             | 1,792        | 16,029              | 479           | 16,508         | 1,172          | 1,067      |
| Chemicals and allied products..... | 3,763                  | 1,384         | 5,147         | 2,047             | 1,988        | 7,656               | 2,492         | 10,148         | 1,042          | 963        |
| Miscellaneous industries..         | 1,806                  | 540           | 2,346         | 1,920             | 1,807        | 7,106               | 1,703         | 8,809          | 1,003          | 861        |
| Central electric stations..        | 5,225                  | 1,411         | 6,636         | 1,759             | 1,710        | 8,759               | —             | 8,759          | 1,397          | 1,360      |

**Average Earnings in the Forty Leading Industries.**—Table 26 shows the employees by sex and average salaries and wages in the forty leading industries during 1932, and the salaries and wages in 1931. The rank of each industry is based on the aggregate of salaries and wages paid, as in Table 12 on p. 478.

In four industries only did average salaries exceed \$2,300; in seven they ranged from \$2,000 to \$2,300; in twenty-two they were from \$1,500 to \$2,000, while in only seven were they below \$1,500. None of the four industries paying the highest salaries—sugar refining \$2,906, breweries \$2,550, petroleum products \$2,375 and pulp and paper \$2,327—reported a proportion of female staff equal to the average percentage in the forty leading industries. The lowest salaries were reported by the sawmilling, bread and other bakery products, and butter and cheese industries.

The highest wages, or those above \$1,200, were paid in six industries—non-ferrous metal smelting and refining \$1,540, printing and publishing \$1,364, central electric stations \$1,360, petroleum products \$1,310, coke and gas products \$1,261 and sugar refining \$1,215—in all of which the proportion of skilled workers is probably high. In six other industries the average wage ranged between \$1,000 and \$1,200. These were largely metal-working industries, breweries, printing and bookbinding, and paints, pigments and varnishes, in all of which the proportion of women employed was low. In the remaining twenty-eight industries the average wage was below \$1,000. This last group included such seasonal industries as sawmilling and the flour and feed milling industry with a large number of small feed and grist mills in which the work is intermittent. The other industries with low average wages were textiles, tobacco and boots and shoes, in which the proportion of female wage-earners was high, the number in several industries being greater than that of the male wage-earners.



26.—Statistics of Salaries and Wages Paid in the Forty Leading Industries, 1932, together with Comparative Figures of Average Salaries and Wages Paid in 1931, and Totals and Averages Paid in Previous Representative Years.

(Industries ranked according to the aggregate salaries and wages paid as in Table 12.)

| No.                                   | Industry.                                    | Salaries            |         |                       |                   |       |               | Wages.  |                    |                |       |    |    |
|---------------------------------------|----------------------------------------------|---------------------|---------|-----------------------|-------------------|-------|---------------|---------|--------------------|----------------|-------|----|----|
|                                       |                                              | Salaried Employees. |         | Total Salaries, 1932. | Average Salaries. |       | Wage-Earners. |         | Total Wages, 1932. | Average Wages. |       |    |    |
|                                       |                                              | Male.               | Female. |                       | 1932.             | 1931. | Male.         | Female. |                    | 1932.          | 1931. |    |    |
|                                       |                                              |                     |         | No.                   |                   |       |               |         | No.                |                |       | \$ | \$ |
| 1                                     | Pulp and paper.....                          | 2,635               | 477     | 7,240,125             | 2,327             | 2,479 | 20,821        | 628     | 21,108,003         | 984            | 1,146 |    |    |
| 2                                     | Printing and publishing..                    | 5,396               | 1,803   | 11,522,619            | 1,601             | 1,688 | 7,485         | 1,227   | 11,883,987         | 1,364          | 1,457 |    |    |
| 3                                     | Central electric stations..                  | 5,225               | 1,411   | 11,349,809            | 1,710             | 1,759 | 8,759         |         | 11,911,357         | 1,360          | 1,397 |    |    |
| 4                                     | Railway rolling-stock....                    | 1,429               | 74      | 2,878,957             | 1,915             | 2,130 | 14,081        | 28      | 14,581,185         | 1,033          | 1,216 |    |    |
| 5                                     | Electrical apparatus and supplies.....       | 2,907               | 1,025   | 7,489,526             | 1,905             | 1,982 | 8,006         | 2,367   | 8,772,842          | 846            | 970   |    |    |
| 6                                     | Bread and other bakery products.....         | 2,156               | 515     | 2,675,161             | 1,002             | 1,222 | 12,479        | 1,706   | 13,234,644         | 933            | 1,000 |    |    |
| 7                                     | Printing and bookbinding.                    | 2,433               | 698     | 5,284,914             | 1,688             | 1,859 | 6,348         | 2,200   | 8,589,102          | 1,005          | 1,121 |    |    |
| 8                                     | Hosiery and knitted goods                    | 875                 | 550     | 2,759,554             | 1,937             | 1,999 | 5,343         | 10,887  | 10,715,420         | 660            | 690   |    |    |
| 9                                     | Clothing, factory, women's                   | 1,203               | 699     | 3,291,876             | 1,731             | 1,879 | 3,422         | 8,952   | 8,826,003          | 713            | 824   |    |    |
| 10                                    | Castings and forgings....                    | 1,431               | 382     | 3,431,165             | 1,893             | 2,101 | 10,484        | 155     | 8,390,078          | 789            | 979   |    |    |
| 11                                    | Cotton yarn and cloth....                    | 407                 | 123     | 1,137,133             | 2,146             | 2,279 | 8,646         | 5,916   | 10,547,846         | 724            | 732   |    |    |
| 12                                    | Automobiles.....                             | 1,302               | 464     | 3,949,998             | 2,237             | 2,441 | 6,903         | 141     | 7,485,743          | 1,063          | 1,133 |    |    |
| 13                                    | Butter and cheese.....                       | 3,358               | 688     | 4,169,301             | 1,080             | 1,086 | 7,600         | 262     | 7,050,065          | 897            | 990   |    |    |
| 14                                    | Boots and shoes.....                         | 1,031               | 412     | 2,408,397             | 1,669             | 1,886 | 7,599         | 4,686   | 8,748,459          | 712            | 764   |    |    |
| 15                                    | Sawmills.....                                | 2,630               | 150     | 1,775,428             | 639               | 1,124 | 15,466        | 39      | 8,985,662          | 580            | 688   |    |    |
| 16                                    | Slaughtering and meat packing.....           | 1,721               | 298     | 3,455,398             | 1,711             | 1,976 | 6,299         | 783     | 6,893,917          | 973            | 1,052 |    |    |
| 17                                    | Biscuits, confectionery, cocoa, etc.....     | 1,795               | 524     | 4,087,777             | 1,763             | 1,797 | 3,580         | 4,627   | 5,337,721          | 650            | 658   |    |    |
| 18                                    | Rubber goods, including footwear.....        | 1,239               | 378     | 2,782,789             | 1,721             | 1,790 | 6,057         | 2,651   | 6,558,122          | 753            | 820   |    |    |
| 19                                    | Dyeing, cleaning and laundry work.....       | 875                 | 509     | 1,990,006             | 1,438             | 1,687 | 3,732         | 6,054   | 7,030,435          | 718            | 811   |    |    |
| 20                                    | Non-ferrous metal smelting and refining..... | 675                 | 64      | 1,690,710             | 2,288             | 2,427 | 4,604         | -       | 7,088,260          | 1,540          | 1,592 |    |    |
| 21                                    | Machinery.....                               | 1,470               | 422     | 3,323,702             | 1,757             | 1,946 | 5,205         | 94      | 4,571,210          | 863            | 1,024 |    |    |
| 22                                    | Clothing, factory, men's                     | 832                 | 339     | 1,914,531             | 1,635             | 1,819 | 3,474         | 3,453   | 5,355,463          | 773            | 853   |    |    |
| 23                                    | Tobacco, cigars and cigarettes.....          | 1,349               | 362     | 3,411,202             | 1,994             | 2,144 | 2,344         | 4,181   | 3,715,868          | 569            | 597   |    |    |
| 24                                    | Furniture.....                               | 1,039               | 270     | 2,127,619             | 1,625             | 1,977 | 6,744         | 295     | 4,754,468          | 675            | 860   |    |    |
| 25                                    | Sheet metal products....                     | 1,010               | 261     | 2,215,121             | 1,703             | 1,889 | 4,459         | 612     | 4,541,705          | 896            | 993   |    |    |
| 26                                    | Primary iron and steel..                     | 536                 | 97      | 1,426,040             | 2,253             | 2,545 | 4,202         | 12      | 4,705,017          | 1,117          | 1,252 |    |    |
| 27                                    | Petroleum products.....                      | 485                 | 69      | 1,315,815             | 2,375             | 2,293 | 3,555         | 7       | 4,664,866          | 1,310          | 1,389 |    |    |
| 28                                    | Breweries.....                               | 788                 | 134     | 2,351,113             | 2,550             | 2,498 | 3,381         | 50      | 3,581,112          | 1,044          | 1,123 |    |    |
| 29                                    | Silk and artificial silk...                  | 417                 | 201     | 1,128,023             | 1,825             | 1,979 | 3,581         | 2,837   | 4,628,842          | 724            | 803   |    |    |
| 30                                    | Flour and feed mills....                     | 1,669               | 181     | 2,184,813             | 1,181             | 1,275 | 3,602         | 134     | 3,391,582          | 908            | 967   |    |    |
| 31                                    | Planing mills, sash and door factories.....  | 1,238               | 186     | 1,862,143             | 1,308             | 1,497 | 4,834         | 32      | 3,652,814          | 751            | 937   |    |    |
| 32                                    | Furnishing goods, men's.                     | 527                 | 255     | 1,456,182             | 1,862             | 2,001 | 896           | 5,887   | 3,513,433          | 518            | 574   |    |    |
| 33                                    | Coke and gas products....                    | 692                 | 238     | 1,480,752             | 1,592             | 1,621 | 2,703         | 6       | 3,416,994          | 1,261          | 1,332 |    |    |
| 34                                    | Boxes and bags, paper...                     | 583                 | 207     | 1,621,057             | 2,052             | 2,314 | 1,889         | 1,975   | 2,790,991          | 722            | 785   |    |    |
| 35                                    | Fruit and vegetable preparations.....        | 588                 | 181     | 1,299,666             | 1,690             | 1,458 | 2,340         | 2,845   | 2,757,080          | 532            | 592   |    |    |
| 36                                    | Paints, pigments and varnishes.....          | 874                 | 257     | 2,324,865             | 2,056             | 2,208 | 1,364         | 163     | 1,533,948          | 1,005          | 1,069 |    |    |
| 37                                    | Medicinal and pharmaceutical preparations... | 743                 | 419     | 2,278,558             | 1,961             | 1,964 | 820           | 977     | 1,555,220          | 865            | 947   |    |    |
| 38                                    | Sugar refineries.....                        | 247                 | 77      | 941,509               | 2,906             | 2,896 | 1,731         | 85      | 2,206,244          | 1,215          | 1,222 |    |    |
| 39                                    | Coffee, tea and spices....                   | 571                 | 166     | 1,494,282             | 2,028             | 2,291 | 638           | 484     | 991,824            | 884            | 929   |    |    |
| 40                                    | Fish curing and packing..                    | 434                 | 52      | 602,760               | 1,240             | 1,282 | 2,657         | 985     | 1,741,404          | 478            | 555   |    |    |
| Totals, Forty Leading Industries..... |                                              | 56,815              | 15,648  | 122,130,396           | -                 | -     | 228,133       | 78,423  | 261,808,936        | -              | -     |    |    |
| Grand Totals, All Industries—         |                                              |                     |         |                       |                   |       |               |         |                    |                |       |    |    |
| 1932.....                             |                                              | 71,364              | 20,706  | 164,695,605           | 1,732             |       | 301,308       | 99,020  | 341,187,718        | 852            |       |    |    |
| 1931.....                             |                                              | 77,576              | 22,222  | 186,810,794           | 1,872             |       | 351,553       | 106,075 | 437,734,767        | 957            |       |    |    |
| 1930.....                             |                                              | 70,525              | 22,418  | 184,239,117           | 1,982             |       | 431,463       | 121,033 | 551,853,649        | 1,001          |       |    |    |
| 1929.....                             |                                              | 73,792              | 22,815  | 188,747,672           | 1,954             |       | 468,043       | 129,784 | 624,302,170        | 1,045          |       |    |    |
| 1927.....                             |                                              | 65,886              | 19,597  | 162,348,978           | 1,899             |       | 413,634       | 119,816 | 531,583,250        | 997            |       |    |    |
| 1924.....                             |                                              | 59,412              | 16,818  | 139,614,639           | 1,831             |       | 333,156       | 99,117  | 420,269,406        | 972            |       |    |    |
| 1921.....                             |                                              | 74,873              |         | 136,874,992           | 1,828             |       | 381,203       |         | 381,910,145        | 1,002          |       |    |    |
| 1920.....                             |                                              | 83,015              |         | 148,267,360           | 1,786             |       | 526,571       |         | 583,853,225        | 1,109          |       |    |    |
| 1917.....                             |                                              | 68,726              |         | 89,287,158            | 1,299             |       | 552,968       |         | 420,094,869        | 760            |       |    |    |

**Real Earnings of Employees in Recent Years.**—When the index number representing the average yearly wages, with 1917 as a base, is divided by the index number of the cost of living, converted to the same base, it is seen that real wages advanced by 17·9 p.c. between 1917 and 1932. The details of the computation are given in Table 27. There was little change in real wages during the three years 1917 to 1920 when prices were rising rapidly. During the following two years, 1921 and 1922, when prices dropped rapidly, real wages increased over 5 p.c. Since then there has been an almost continuous rise from year to year with the exception of 1930. In 1931 real wages reached a maximum of 120·2, declining to 117·9 in 1932.

**27.—Average Yearly Earnings and Index Numbers of Earnings and Real Wages of Wage-Earners in Manufacturing Industries, 1917-32.**

NOTE.—The figures of average earnings for the years 1931 and 1932 are strictly comparable with those for the years up to 1925 but not with those for the intervening years. The figures for the latest years as for the earliest represent the earnings for complete man-years of work, with no allowance for periods of unemployment. See footnote 1 to Table 4, p. 449.

| Year.     | Amount<br>of Wages<br>Paid. | Average<br>Number<br>of Wage-<br>Earners. | Average<br>Yearly<br>Earnings. | Index Numbers.                 |                    |                                                 |
|-----------|-----------------------------|-------------------------------------------|--------------------------------|--------------------------------|--------------------|-------------------------------------------------|
|           |                             |                                           |                                | Average<br>Yearly<br>Earnings. | Cost of<br>Living. | Real Value<br>of Average<br>Yearly<br>Earnings. |
|           | \$                          | No.                                       | \$                             |                                |                    |                                                 |
| 1917..... | 420,094,869                 | 552,968                                   | 760                            | 100·0                          | 100·0              | 100·0                                           |
| 1918..... | 480,949,599                 | 547,599                                   | 878                            | 115·5                          | 114·0              | 101·3                                           |
| 1919..... | 496,570,995                 | 529,327                                   | 938                            | 123·4                          | 125·3              | 98·5                                            |
| 1920..... | 583,853,225                 | 526,571                                   | 1,109                          | 145·9                          | 145·2              | 100·4                                           |
| 1921..... | 381,910,145                 | 381,203                                   | 1,002                          | 131·8                          | 127·6              | 103·2                                           |
| 1922..... | 374,212,141                 | 398,390                                   | 939                            | 123·6                          | 116·8              | 105·8                                           |
| 1923..... | 428,731,347                 | 446,994                                   | 959                            | 126·1                          | 116·8              | 107·9                                           |
| 1924..... | 420,269,406                 | 432,273                                   | 972                            | 127·9                          | 114·5              | 111·7                                           |
| 1925..... | 452,958,655                 | 466,602                                   | 971                            | 127·8                          | 116·0              | 110·2                                           |
| 1926..... | 501,144,989                 | 499,745                                   | 1,003                          | 132·0                          | 116·8              | 113·0                                           |
| 1927..... | 531,583,250                 | 533,450                                   | 997                            | 131·3                          | 115·1              | 114·1                                           |
| 1928..... | 580,428,493                 | 566,780                                   | 1,024                          | 134·8                          | 115·6              | 116·5                                           |
| 1929..... | 624,302,170                 | 597,827                                   | 1,045                          | 137·5                          | 116·8              | 117·7                                           |
| 1930..... | 551,853,049                 | 551,496                                   | 1,001                          | 131·7                          | 115·9              | 113·6                                           |
| 1931..... | 437,734,767                 | 457,628                                   | 957                            | 125·8                          | 104·7              | 120·2                                           |
| 1932..... | 341,187,718                 | 400,328                                   | 852                            | 112·1                          | 95·1               | 117·9                                           |

**Percentages of Wages and Salaries to Net Values of Production.**—Table 28 shows the relation between wages and salaries paid by manufacturers and the total net value of production. Figures of gross production are often used in such calculations, but the values out of which the wages of employees must in the long run come are the values added to the raw materials while they are in the factory. Such added values constitute the real production of the manufacturing plant and are alone available for payment of wages and salaries, of interest, rent and taxes, charges for fuel, power, lighting, repairs, and all other overhead charges. The percentages of salaries were higher in the years 1921, 1922, 1924, 1931 and 1932. These were years in which manufacturing production was curtailed and it is probable that, salaried employees being a part of the organization of an industry rather than of its productive force, salaries were an abnormally high percentage of the lower level of production then prevailing. The percentage declined with the increasing manufacturing production after 1922, but in 1929 was still much higher than in 1917, while in 1930, 1931 and 1932, due to decreased industrial activity, the percentage of salaries to value added rose to 10·5, 12·7 and 14·1 respectively. It should be borne in mind, however, that salaried employees increased by 38·4 p.c. in the period, while wage-earners decreased 27·6 p.c. (Table 20). The percentage of wages has fluctuated much less than that of salaries. The number of wage-earning employees may be more readily adjusted to the activity of the industry and wage levels likewise more readily adjusted to the price levels of the products. The

percentage of wages to the values added in manufacture was thus only 2.4 p.c. lower in 1932 than in 1917. The percentage was highest in 1920, when, in the post-war inflation, average wages were highest (Table 27) and the efficiency of production lowest (Table 20).

**28.—Percentages of Wages and Salaries Paid to Total Net Values of Manufacturing Production, 1917-32.**

| Year.     | Value Added<br>by Processes<br>of<br>Manufacture. | Salaries<br>Paid. | Wages<br>Paid. | Percentage—                       |                                |                                                         |
|-----------|---------------------------------------------------|-------------------|----------------|-----------------------------------|--------------------------------|---------------------------------------------------------|
|           |                                                   |                   |                | of Salaries<br>to Value<br>Added. | of Wages<br>to Value<br>Added. | of Total<br>Salaries and<br>Wages<br>to Value<br>Added. |
|           | \$                                                | \$                | \$             | p.c.                              | p.c.                           | p.c.                                                    |
| 1917..... | 1,332,180,767                                     | 89,287,158        | 420,094,869    | 6.7                               | 31.5                           | 38.2                                                    |
| 1918..... | 1,460,723,777                                     | 101,507,889       | 480,949,599    | 6.9                               | 32.9                           | 39.8                                                    |
| 1919..... | 1,509,870,745                                     | 121,892,144       | 496,570,995    | 8.1                               | 32.9                           | 41.0                                                    |
| 1920..... | 1,686,978,408                                     | 148,267,360       | 583,853,225    | 8.8                               | 34.6                           | 43.4                                                    |
| 1921..... | 1,209,143,344                                     | 136,874,992       | 381,910,145    | 11.3                              | 31.6                           | 42.9                                                    |
| 1922..... | 1,198,434,407                                     | 136,219,171       | 374,212,141    | 11.4                              | 31.2                           | 42.6                                                    |
| 1923..... | 1,311,025,375                                     | 142,738,681       | 428,731,347    | 10.9                              | 32.7                           | 43.6                                                    |
| 1924..... | 1,256,643,901                                     | 139,614,639       | 420,269,406    | 11.1                              | 33.4                           | 44.5                                                    |
| 1925..... | 1,360,879,907                                     | 143,056,516       | 452,958,655    | 10.5                              | 33.3                           | 43.8                                                    |
| 1926..... | 1,492,645,039                                     | 152,705,944       | 501,144,989    | 10.2                              | 33.6                           | 43.8                                                    |
| 1927..... | 1,635,923,936                                     | 162,348,978       | 531,583,250    | 9.9                               | 32.5                           | 42.4                                                    |
| 1928..... | 1,819,046,025                                     | 174,770,879       | 580,428,493    | 9.7                               | 31.9                           | 41.6                                                    |
| 1929..... | 1,997,350,365                                     | 188,747,672       | 624,302,170    | 9.5                               | 31.3                           | 40.8                                                    |
| 1930..... | 1,761,986,726                                     | 184,239,117       | 551,853,649    | 10.5                              | 31.3                           | 41.8                                                    |
| 1931..... | 1,474,581,851                                     | 186,810,794       | 437,734,767    | 12.7                              | 29.7                           | 42.4                                                    |
| 1932..... | 1,170,225,872                                     | 164,695,605       | 341,187,718    | 14.1                              | 29.1                           | 43.2                                                    |

**Subsection 4.—Sizes of Manufacturing Establishments.**

An essential characteristic of the recent evolution of industry has been the increase in the size of the typical manufacturing establishment. The full utilization of highly specialized machinery necessitates large-scale production, while the improvements in transportation have widened the market, and the development of more efficient methods of business administration has made it possible for the individual manufacturer to supervise effectively a larger plant. An increase in the scale of production of the typical manufacturing establishment has been experienced in all industrial countries which have been affected by the so-called "Industrial Revolution", and not least in Canada where the rise of the factory system in industry has taken place approximately since Confederation.

The size of the manufacturing establishment is generally measured either by the number of employees or by the value of product, but each of these methods has its limitations. The former takes no account of the differences in capital equipment at different times or in various industries, though obviously the increased use of machinery, as in the flour-milling industry, may lead to increased production concurrently with a decrease in the number of employees. The latter measure has to be adjusted for changes in the price level; and, as between industries, it makes those which handle expensive raw materials appear to operate on a larger scale. Both measures are subject to two limitations: first, they depend on the fluctuation of business activity and in times of depression there is an apparent shrinkage in the size of establishments as measured by either method; secondly, over any lengthy period of



time there is the difficulty of comparability resulting from changes in the method of the census.

Thus, while it is possible in a general way to state that the average size of the manufacturing establishment in Canada has increased between 1870 and 1932, the 1932 figures are not on the same basis as the 1870 figures, especially since they do not include all the small custom and repair establishments included at the earlier date. Some difficulties arise right up to the most recent times. In 1932, for example, due to the difficulty of eliminating duplication in the value of production in central electric stations as well as the difficulty of apportioning the capital investment as between different cities, it has been found necessary to exclude figures for central electric stations in showing statistics of size of establishment as well as in statistics of cities and towns. Except in this particular the figures for 1922 and 1932 shown in Table 29, are, however, quite comparable,

**Size as Measured by Gross Value of Products.**—In Tables 29 and 30 the size of the establishments reporting to the Census of Manufactures is shown by the gross value of products—Table 29 giving comparative figures for 1922 (the first year for which the figures are available), and 1932, and Table 30 the figures by provinces for 1932.

In 1922 the 420 establishments which had each a gross production of over \$1,000,000 had an aggregate value of products of \$1,268,056,129, or 51 p.c. of the total production of all manufacturing industries. By 1929 such establishments numbered 719 and accounted for 62 p.c. of all manufacturing production—a very significant change in the short period of seven years. However, as a result of the ensuing decline in industrial activity, by 1932 there were only 329 of such establishments and these produced goods to a value of only \$916,630,395 or 46 p.c. of the total for all industries, exclusive of central electric stations. The exclusion of this industry in 1932 no doubt reduced the number and the aggregate value of production of establishments producing over \$1,000,000 each, but it is improbable that this exclusion was responsible for lowering the proportion of that production to the total for all industries as much as was curtailed industrial activity, which resulted in many plants operating below capacity and therefore dropping into lower categories. The effect of lower prices was also considerable.

**29.—Manufacturing Establishments Grouped According to Gross Values of Products, with Total and Average Values of Products in each Class, for Canada, 1922 and 1932.**

| Group.                             | 1922.             |                      |                      | 1932. <sup>1</sup> |                      |                      |
|------------------------------------|-------------------|----------------------|----------------------|--------------------|----------------------|----------------------|
|                                    | Estab-lish-ments. | Total Production.    | Average Pro-duction. | Estab-lish-ments.  | Total Production.    | Average Pro-duction. |
| Gross Value of Products.           | No.               | \$                   | \$                   | No.                | \$                   | \$                   |
| Under \$25,000.....                | 14,978            | 114,205,770          | 7,625                | 16,517             | 113,016,263          | 6,824                |
| \$ 25,000 but under \$ 50,000..... | 2,401             | 85,075,807           | 35,433               | 2,298              | 81,724,131           | 35,563               |
| 50,000 " 100,000.....              | 1,793             | 129,320,947          | 72,125               | 1,734              | 123,340,738          | 71,130               |
| 100,000 " 200,000.....             | 1,355             | 191,675,689          | 141,458              | 1,273              | 179,583,314          | 141,078              |
| 200,000 " 500,000.....             | 1,078             | 330,533,712          | 306,617              | 945                | 292,404,734          | 309,421              |
| 500,000 " 1,000,000.....           | 516               | 363,341,076          | 704,140              | 415                | 291,064,747          | 701,360              |
| 1,000,000 " 5,000,000.....         | 364               | 692,463,530          | 1,902,372            | 287                | 582,662,752          | 2,030,183            |
| 5,000,000 and over.....            | 56                | 575,592,599          | 10,278,439           | 42                 | 333,967,643          | 7,951,610            |
| <b>Totals.....</b>                 | <b>22,541</b>     | <b>2,482,209,130</b> | <b>110,119</b>       | <b>23,511</b>      | <b>1,997,774,322</b> | <b>84,971</b>        |

<sup>1</sup>The figures for 1932 do not include central electric stations.



**30.—Manufacturing Establishments, Grouped According to Gross Values of Products, with Total Values of Products in each Class, by Provinces, 1932.**

NOTE.—The figures in this table do not include central electric stations.

| Group.                                     | Prince Edward Island. |                  | Nova Scotia.      |                   | New Brunswick.    |                   |
|--------------------------------------------|-----------------------|------------------|-------------------|-------------------|-------------------|-------------------|
|                                            | Estab-lish-ments.     | Production.      | Estab-lish-ments. | Production.       | Estab-lish-ments. | Production.       |
| Gross Value of Products.<br>(000 omitted.) | No.                   | \$               | No.               | \$                | No.               | \$                |
| Under \$ 25.....                           | 234                   | 1,502,412        | 1,131             | 5,193,330         | 660               | 3,909,830         |
| \$ 25— 50.....                             | 16                    | 556,715          | 74                | 2,656,085         | 46                | 1,536,217         |
| 50— 100.....                               | 7                     | 498,309          | 52                | 3,698,062         | 42                | 3,023,822         |
| 100— 200.....                              | 5                     | 734,974          | 35                | 4,922,607         | 27                | 3,795,790         |
| 200— 500.....                              | —                     | —                | 18                | 4,886,799         | 16                | 5,060,388         |
| 500— 1,000.....                            | —                     | —                | 9                 | 6,357,654         | 5                 | 3,436,266         |
| 1,000— 5,000.....                          | —                     | —                | 6                 | 18,280,105        | 8                 | 23,379,823        |
| 5,000 and over.....                        | —                     | —                | —                 | —                 | —                 | —                 |
| <b>Totals.....</b>                         | <b>262</b>            | <b>3,292,413</b> | <b>1,325</b>      | <b>45,994,642</b> | <b>804</b>        | <b>44,132,136</b> |

| Group.                                     | Quebec.           |                    | Ontario.          |                    | Manitoba.         |                   |
|--------------------------------------------|-------------------|--------------------|-------------------|--------------------|-------------------|-------------------|
|                                            | Estab-lish-ments. | Production.        | Estab-lish-ments. | Production.        | Estab-lish-ments. | Production.       |
| Gross Value of Products.<br>(000 omitted.) | No.               | \$                 | No.               | \$                 | No.               | \$                |
| Under \$ 25.....                           | 5,841             | 35,669,110         | 5,867             | 48,286,992         | 582               | 4,063,474         |
| \$ 25— 50.....                             | 592               | 20,992,314         | 1,144             | 40,807,123         | 108               | 3,936,672         |
| 50— 100.....                               | 436               | 30,802,775         | 869               | 62,044,152         | 94                | 6,569,573         |
| 100— 200.....                              | 351               | 49,737,460         | 649               | 91,577,133         | 67                | 9,557,314         |
| 200— 500.....                              | 275               | 86,532,259         | 497               | 154,519,722        | 42                | 11,985,165        |
| 500— 1,000.....                            | 121               | 85,044,423         | 207               | 146,295,041        | 25                | 18,035,776        |
| 1,000— 5,000.....                          | 86                | 192,528,011        | 151               | 289,007,957        | 13                | 35,373,914        |
| 5,000 and over.....                        | 16                | 122,390,337        | 16                | 145,906,561        | —                 | —                 |
| <b>Totals.....</b>                         | <b>7,718</b>      | <b>623,696,689</b> | <b>9,400</b>      | <b>978,444,681</b> | <b>931</b>        | <b>89,521,888</b> |

| Group.                                     | Saskatchewan.     |                   | Alberta.          |                   | British Columbia. |                    |
|--------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
|                                            | Estab-lish-ments. | Production.       | Estab-lish-ments. | Production.       | Estab-lish-ments. | Production.        |
| Gross Value of Products.<br>(000 omitted.) | No.               | \$                | No.               | \$                | No.               | \$                 |
| Under \$ 25.....                           | 499               | 2,982,842         | 656               | 4,096,333         | 1,047             | 7,311,940          |
| \$ 25— 50.....                             | 52                | 1,807,521         | 96                | 3,398,797         | 170               | 6,032,684          |
| 50— 100.....                               | 52                | 3,645,123         | 40                | 2,849,551         | 142               | 10,209,371         |
| 100— 200.....                              | 21                | 2,840,942         | 27                | 3,536,851         | 91                | 12,890,243         |
| 200— 500.....                              | 10                | 3,045,008         | 23                | 7,300,776         | 64                | 19,084,617         |
| 500— 1,000.....                            | 6                 | 3,727,050         | 14                | 9,471,304         | 28                | 18,697,233         |
| 1,000— 5,000.....                          | 4                 | 13,574,920        | 10                | 19,959,196        | 15                | 27,169,475         |
| 5,000 and over.....                        | —                 | —                 | —                 | —                 | 4                 | 29,060,096         |
| <b>Totals.....</b>                         | <b>644</b>        | <b>31,623,406</b> | <b>866</b>        | <b>59,612,808</b> | <b>1,561</b>      | <b>130,455,659</b> |

**Size as Measured by Number of Employees**—In Tables 31 and 32 (see p. 502) the establishments reporting to the Census of Manufactures are classified by the number of their employees. In 1923, establishments employing 501 hands or over accounted for 21·4 p.c. of the total number of employees engaged in manufacturing. By 1929 they accounted for 27·3 p.c. of the total, indicating the increasing concentration of production into larger units. This tendency, however, was checked by the depression, the percentage having dropped to 21·6 (central electric stations included). The same also holds true for all establishments employing 100 hands and over. In 1923 they employed 58·6 p.c. of the total, in 1929, 61·9 p.c. and in 1932, 58·0 p.c.

### 31.—Establishments and Employees in Canadian Manufactures, Grouped According to the Number of Employees per Establishment, 1923 and 1932.

NOTE.—The total of employees in 1932, exclusive of central electric stations, exceeds the total of 480,003 given elsewhere in this report because 3,169 contract workers in the salmon canneries of British Columbia and other provinces are included here but are excluded elsewhere.

| Group.                     | 1923.           |                |                   | 1932. <sup>1</sup> |                |                   |
|----------------------------|-----------------|----------------|-------------------|--------------------|----------------|-------------------|
|                            | Establishments. | Employees.     | Average Employed. | Establishments.    | Employees.     | Average Employed. |
|                            | No.             | No.            | No.               | No.                | No.            | No.               |
| Fewer than 5 employees.... | 13,156          | 23,632         | 1.7               | 14,077             | 25,870         | 1.8               |
| 5 to 20 employees.....     | 5,310           | 53,852         | 10.1              | 5,525              | 54,559         | 9.8               |
| 21 " 50 ".....             | 2,093           | 67,408         | 32.2              | 1,987              | 64,210         | 32.3              |
| 51 " 100 ".....            | 1,031           | 73,449         | 71.2              | 933                | 66,295         | 71.0              |
| 101 " 200 ".....           | 566             | 79,737         | 140.8             | 564                | 78,109         | 138.4             |
| 201 " 500 ".....           | 374             | 115,585        | 309.0             | 318                | 95,041         | 298.8             |
| 501 and over.....          | 112             | 112,447        | 1,004.0           | 107                | 99,088         | 826.1             |
| <b>Totals and Averages</b> | <b>22,642</b>   | <b>526,110</b> | <b>23.3</b>       | <b>23,511</b>      | <b>483,172</b> | <b>20.5</b>       |

<sup>1</sup> Exclusive of central electric stations.

### 32.—Establishments and Employees in Canadian Manufactures, by Provinces, Grouped According to the Number of Employees per Establishment, 1932.

NOTE.—See headnote, Table 31.

| Province.                     | Under 5 Employees. | 5-20.  | 21-50. | 51-100. | 101-200. | 201-500. | 501 and over. | Total.  |
|-------------------------------|--------------------|--------|--------|---------|----------|----------|---------------|---------|
| <b>Prince Edward Island—</b>  |                    |        |        |         |          |          |               |         |
| Establishments.....           | 201                | 52     | 9      | —       | —        | —        | —             | 262     |
| Employees.....                | 370                | 424    | 306    | —       | —        | —        | —             | 1,100   |
| Average per establishment.... | 1.8                | 8.1    | 34.0   | —       | —        | —        | —             | 4.2     |
| <b>Nova Scotia—</b>           |                    |        |        |         |          |          |               |         |
| Establishments.....           | 936                | 286    | 57     | 33      | 4        | 9        | —             | 1,325   |
| Employees.....                | 1,662              | 2,648  | 1,915  | 2,413   | 632      | 3,147    | —             | 12,417  |
| Average per establishment.... | 1.7                | 9.2    | 33.6   | 73.1    | 158.0    | 349.6    | —             | 9.3     |
| <b>New Brunswick—</b>         |                    |        |        |         |          |          |               |         |
| Establishments.....           | 512                | 205    | 47     | 23      | 7        | 10       | —             | 804     |
| Employees.....                | 923                | 1,861  | 1,433  | 1,703   | 962      | 4,648    | —             | 11,530  |
| Average per establishment.... | 1.8                | 9.07   | 30.5   | 74.0    | 137.4    | 464.8    | —             | 14.3    |
| <b>Quebec—</b>                |                    |        |        |         |          |          |               |         |
| Establishments.....           | 5,109              | 1,454  | 585    | 252     | 157      | 114      | 47            | 7,718   |
| Employees.....                | 8,728              | 14,579 | 18,918 | 17,867  | 21,521   | 35,067   | 41,288        | 157,968 |
| Average per establishment.... | 1.7                | 10.0   | 32.3   | 70.9    | 137.1    | 307.6    | 878.4         | 20.4    |
| <b>Ontario—</b>               |                    |        |        |         |          |          |               |         |
| Establishments.....           | 4,979              | 2,499  | 944    | 461     | 310      | 158      | 49            | 9,400   |
| Employees.....                | 9,766              | 25,130 | 30,640 | 32,503  | 43,133   | 46,302   | 44,841        | 232,315 |
| Average per establishment.... | 1.9                | 10.0   | 32.4   | 70.6    | 139.1    | 293.0    | 915.1         | 24.7    |
| <b>Manitoba—</b>              |                    |        |        |         |          |          |               |         |
| Establishments.....           | 487                | 253    | 111    | 44      | 25       | 8        | 3             | 931     |
| Employees.....                | 1,002              | 2,452  | 3,630  | 3,092   | 3,601    | 2,697    | 4,620         | 21,094  |
| Average per establishment.... | 2.05               | 9.6    | 32.7   | 70.2    | 144.0    | 337.1    | 1540.0        | 22.6    |
| <b>Saskatchewan—</b>          |                    |        |        |         |          |          |               |         |
| Establishments.....           | 452                | 138    | 37     | 10      | 7        | —        | —             | 644     |
| Employees.....                | 819                | 1,221  | 1,112  | 692     | 1,064    | —        | —             | 4,908   |
| Average per establishment.... | 1.8                | 8.8    | 30.0   | 69.2    | 152.0    | —        | —             | 7.6     |
| <b>Alberta—</b>               |                    |        |        |         |          |          |               |         |
| Establishments.....           | 598                | 178    | 46     | 26      | 8        | 10       | —             | 866     |
| Employees.....                | 1,012              | 1,657  | 1,499  | 1,865   | 1,198    | 3,275    | —             | 10,506  |
| Average per establishment.... | 1.6                | 9.3    | 32.5   | 71.7    | 149.7    | 327.5    | —             | 12.1    |
| <b>British Columbia—</b>      |                    |        |        |         |          |          |               |         |
| Establishments.....           | 803                | 460    | 151    | 83      | 47       | 13       | 4             | 1,561   |
| Employees.....                | 1,588              | 4,587  | 4,819  | 6,098   | 6,229    | 3,928    | 4,085         | 31,334  |
| Average per establishment.... | 1.9                | 9.9    | 31.8   | 73.4    | 132.5    | 302.1    | 1,021.2       | 20.1    |

**Subsection 5.—Power and Fuel.**

**Power.**—The power equipment installed in manufacturing establishments is a very good barometer of the industrial development of Canada, inasmuch as the production is increasingly dependent on the power equipment. Increases and decreases in productive capacity, measured in horse-power, are not the result of temporary fluctuations in costs and values in the same manner as capital investments, values of products, etc. Power equipment will not reflect temporary depressions, but over a period of several years will indicate industrial growth or decline.

Central electric stations, which generate electricity for both lighting and power purposes, are treated in Table 33 separately from the other groups of industries. Internal combustion engines include all gasoline engines, natural, coal, and producer gas engines, and diesel and semi-diesel or other engines which produce power by burning the fuel in the cylinder.

The rapid increase in the development of power in Canada and in its utilization in manufacturing industries is illustrated by the summary figures for the years 1921 to 1932 in Table 33. The table is divided into two parts, the first showing manufacturing industries exclusive of central electric stations and the second showing central electric stations only. The abundance of readily available water power in many parts of Canada, facilitating the development of low-cost hydro-electric power, has no doubt played a large part in this rapid growth. Of the total primary power increase of 4,854,632 h.p., inclusive of central electric stations, in the 12 years, no less than 4,370,610 h.p. or 90 p.c. was in water power. However, some sections of Canada are not so well provided with water-power resources and chiefly in such sections primary power derived from steam engines and turbines and internal combustion engines has also increased rapidly during the period covered. In the provinces of Prince Edward Island, Nova Scotia, Saskatchewan and Alberta, primary power produced from fuels exceeded that from water in 1932. The total installation of electric motors increased 2,196,105 h.p., or 216 p.c. in the 12 years covered, by far the greatest part of this increase being in motors operated by power purchased from central electric stations.

Comparisons with the data for 1921 show an increase in 1932 of 4,854,632 h.p. or 155 p.c. in the total primary power equipment in all manufacturing establishments, including central electric stations, by far the largest increase, amounting to 4,417,114 h.p., being in central electric stations. Of this increase in central electric stations, water-power development accounted for 4,209,902 h.p., while steam power installed increased by 187,483 h.p. and internal combustion engines increased by 19,729 h.p. Provinces with large water-power developments show the greatest increases in primary power. For all manufacturing industries, including central electric stations, the province of Quebec led with an increase of 2,343,751 h.p. during the period under review. Ontario came second with an increase of 1,174,146 h.p., British Columbia third with an increase of 466,735 h.p., Manitoba fourth with 379,505 h.p., Nova Scotia fifth with 185,412 h.p., New Brunswick sixth with 131,544, etc. In the utilization of hydraulic power, Quebec exceeded Ontario for the first time in 1925. In 1927 Quebec exceeded Ontario and all other provinces in the total of installed primary power from all sources and has been the leading province since then, largely owing to its extensive water-power resources, 93 p.c. of its primary power in 1932 being derived from water.

**33.—Totals for Canada of Power Installed in the Manufacturing Industries other than Central Electric Stations and in Central Electric Stations, 1921-32, with Details by Provinces and Groups of Industries for 1932.**

MANUFACTURING INDUSTRIES (EXCLUSIVE OF CENTRAL ELECTRIC STATIONS).

| Province or Group.                | Primary Power.              |                              |                                      |                      | Electric Motors.             |                                                          |                        | Total Power Equipment Employed. |
|-----------------------------------|-----------------------------|------------------------------|--------------------------------------|----------------------|------------------------------|----------------------------------------------------------|------------------------|---------------------------------|
|                                   | Steam Engines and Turbines. | Internal Combustion Engines. | Hydraulic Turbines and Water Wheels. | Total Primary Power. | Operated by Purchased Power. | Operated by Power Generated by Establishments Reporting. | Total Electric Motors. |                                 |
|                                   | h.p.                        | h.p.                         | h.p.                                 | h.p.                 | h.p.                         | h.p.                                                     | h.p.                   | h.p.                            |
| <b>Totals, 1921...</b>            | 495,534                     | 37,696                       | 492,508                              | 1,025,738            | -                            | -                                                        | 1,014,216              | -                               |
| <b>Totals, 1922...</b>            | 554,141                     | 70,271                       | 578,795                              | 1,203,207            | -                            | -                                                        | 1,162,649              | -                               |
| <b>Totals, 1923...</b>            | 554,191                     | 46,829                       | 587,191                              | 1,188,211            | 958,692                      | 357,136                                                  | 1,315,828              | 2,146,903                       |
| <b>Totals, 1924...</b>            | 652,913                     | 54,250                       | 575,189                              | 1,282,352            | 1,256,183                    | 398,001                                                  | 1,654,184              | 2,538,535                       |
| <b>Totals, 1925...</b>            | 686,425                     | 57,247                       | 598,738                              | 1,340,410            | 1,547,754                    | 434,678                                                  | 1,982,432              | 2,888,164                       |
| <b>Totals, 1926...</b>            | 704,158                     | 56,128                       | 603,628                              | 1,363,914            | 1,770,334                    | 392,322                                                  | 2,162,656              | 3,134,248                       |
| <b>Totals, 1927...</b>            | 718,157                     | 57,143                       | 587,595                              | 1,362,895            | 1,924,687                    | 386,555                                                  | 2,311,242              | 3,287,582                       |
| <b>Totals, 1928...</b>            | 736,996                     | 58,806                       | 657,253                              | 1,453,055            | 2,139,129                    | 457,565                                                  | 2,596,694              | 3,592,184                       |
| <b>Totals, 1929...</b>            | 768,141                     | 60,654                       | 645,500                              | 1,474,295            | 2,393,684                    | 496,036                                                  | 2,889,720              | 3,867,979                       |
| <b>Totals, 1930...</b>            | 799,041                     | 65,630                       | 668,220                              | 1,532,891            | 2,518,853                    | 478,548                                                  | 2,997,401              | 4,051,744                       |
| <b>Totals, 1931...</b>            | 786,307                     | 73,401                       | 667,558                              | 1,527,266            | 2,587,411                    | 539,800                                                  | 3,127,211              | 4,114,677                       |
| <b>PROVINCE, 1932.</b>            |                             |                              |                                      |                      |                              |                                                          |                        |                                 |
| P. E. Island .....                | 1,823                       | 419                          | 1,301                                | 3,543                | 660                          | 377                                                      | 1,037                  | 4,203                           |
| Nova Scotia .....                 | 92,546                      | 4,545                        | 11,706                               | 108,797              | 89,673                       | 12,458                                                   | 102,131                | 198,470                         |
| New Brunswick...                  | 54,355                      | 3,026                        | 18,434                               | 75,815               | 83,706                       | 45,950                                                   | 129,656                | 159,521                         |
| Quebec .....                      | 177,972                     | 9,962                        | 254,977                              | 442,911              | 1,037,504                    | 115,616                                                  | 1,153,150              | 1,480,415                       |
| Ontario .....                     | 262,488                     | 38,849                       | 243,070                              | 544,407              | 1,085,019                    | 236,659                                                  | 1,321,678              | 1,629,426                       |
| Manitoba .....                    | 11,067                      | 1,188                        | 110                                  | 12,365               | 128,889                      | 511                                                      | 129,400                | 141,254                         |
| Saskatchewan...                   | 9,424                       | 1,449                        | -                                    | 10,873               | 19,334                       | 57                                                       | 19,391                 | 30,207                          |
| Alberta .....                     | 21,930                      | 4,009                        | 217                                  | 26,156               | 42,468                       | 2,476                                                    | 44,944                 | 68,624                          |
| British Columbia and Yukon .....  | 109,881                     | 5,107                        | 123,401                              | 238,389              | 206,911                      | 102,023                                                  | 308,934                | 445,300                         |
| <b>Totals, 1932...</b>            | <b>741,486</b>              | <b>68,554</b>                | <b>653,216</b>                       | <b>1,463,256</b>     | <b>2,694,164</b>             | <b>516,157</b>                                           | <b>3,219,321</b>       | <b>4,157,420</b>                |
| <b>GROUP OF INDUSTRIES, 1932.</b> |                             |                              |                                      |                      |                              |                                                          |                        |                                 |
| Vegetable products                | 59,072                      | 13,734                       | 36,591                               | 109,397              | 217,432                      | 28,153                                                   | 245,585                | 326,829                         |
| Animal products...                | 20,093                      | 4,980                        | 1,381                                | 26,454               | 73,615                       | 1,981                                                    | 75,596                 | 100,069                         |
| Textiles .....                    | 22,204                      | 1,505                        | 33,420                               | 57,129               | 132,786                      | 38,536                                                   | 171,322                | 189,915                         |
| Wood and paper...                 | 407,545                     | 19,161                       | 499,092                              | 925,798              | 1,168,212                    | 331,837                                                  | 1,500,049              | 2,094,010                       |
| Iron and its products .....       | 152,154                     | 22,488                       | 4,295                                | 178,937              | 444,951                      | 74,713                                                   | 519,664                | 623,888                         |
| Non-ferrous metals                | 25,921                      | 438                          | 69,585                               | 95,944               | 354,327                      | 22,023                                                   | 376,350                | 450,271                         |
| Non-metallic minerals .....       | 28,969                      | 4,969                        | 182                                  | 34,120               | 175,364                      | 11,701                                                   | 187,065                | 209,434                         |
| Chemicals .....                   | 18,683                      | 259                          | 8,620                                | 27,562               | 78,109                       | 7,213                                                    | 85,322                 | 105,671                         |
| Miscellaneous industries .....    | 6,845                       | 1,020                        | 50                                   | 7,915                | 49,868                       | -                                                        | 49,368                 | 57,283                          |



**33.—Totals for Canada of Power Installed in the Manufacturing Industries other than Central Electric Stations and in Central Electric Stations, 1921-1932, with Details by Provinces and Groups of Industries for 1932—concluded.**

**CENTRAL ELECTRIC STATIONS.**

| Province.                       | Primary Power.              |                              |                                      |                      | Electric Motors.             |                                                         |                        | Total Power Equipment Employed. |
|---------------------------------|-----------------------------|------------------------------|--------------------------------------|----------------------|------------------------------|---------------------------------------------------------|------------------------|---------------------------------|
|                                 | Steam Engines and Turbines. | Internal Combustion Engines. | Hydraulic Turbines and Water Wheels. | Total Primary Power. | Operated by Purchased Power. | Operated by Power Generated by Establishments Reporting | Total Electric Motors. |                                 |
|                                 | h.p.                        | h.p.                         | h.p.                                 | h.p.                 | h.p.                         | h.p.                                                    | h.p.                   | h.p.                            |
| <b>Totals, 1921...</b>          | 269,191                     | 15,871                       | 1,826,357                            | 2,111,419            | —                            | —                                                       | —                      | 2,111,419                       |
| <b>Totals, 1922...</b>          | 279,615                     | 16,751                       | 2,112,289                            | 2,408,655            | —                            | —                                                       | —                      | 2,408,655                       |
| <b>Totals, 1923...</b>          | 273,679                     | 17,191                       | 2,282,547                            | 2,573,417            | —                            | —                                                       | —                      | 2,573,417                       |
| <b>Totals, 1924...</b>          | 291,354                     | 18,241                       | 2,707,957                            | 3,017,552            | —                            | —                                                       | —                      | 3,017,552                       |
| <b>Totals, 1925...</b>          | 306,491                     | 20,188                       | 3,416,018                            | 3,742,697            | —                            | —                                                       | —                      | 3,742,697                       |
| <b>Totals, 1926...</b>          | 314,377                     | 22,426                       | 3,609,385                            | 3,946,188            | —                            | —                                                       | —                      | 3,946,188                       |
| <b>Totals, 1927...</b>          | 320,774                     | 22,610                       | 3,975,012                            | 4,318,396            | —                            | —                                                       | —                      | 4,318,396                       |
| <b>Totals, 1928...</b>          | 316,311                     | 25,058                       | 4,445,531                            | 4,786,900            | —                            | —                                                       | —                      | 4,786,910                       |
| <b>Totals, 1929...</b>          | 347,641                     | 30,875                       | 4,718,927                            | 5,097,443            | —                            | —                                                       | —                      | 5,097,443                       |
| <b>Totals, 1930...</b>          | 393,990                     | 34,462                       | 5,144,109                            | 5,572,561            | —                            | —                                                       | —                      | 5,572,561                       |
| <b>Totals, 1931...</b>          | 433,728                     | 34,753                       | 5,422,319                            | 5,890,800            | —                            | —                                                       | —                      | 5,890,800                       |
| <b>1932.</b>                    |                             |                              |                                      |                      |                              |                                                         |                        |                                 |
| P. E. Island.....               | 4,248                       | 920                          | 464                                  | 5,632                | —                            | —                                                       | —                      | 5,632                           |
| Nova Scotia.....                | 73,101                      | 1,184                        | 81,616                               | 155,901              | —                            | —                                                       | —                      | 155,901                         |
| New Brunswick...                | 30,315                      | 1,170                        | 105,485                              | 136,970              | —                            | —                                                       | —                      | 136,970                         |
| Quebec.....                     | 32,396                      | 1,483                        | 2,912,967                            | 2,946,846            | —                            | —                                                       | —                      | 2,946,846                       |
| Ontario.....                    | 39,668                      | 1,751                        | 1,869,401                            | 1,910,820            | —                            | —                                                       | —                      | 1,910,820                       |
| Manitoba.....                   | 33,581                      | 2,905                        | 436,925                              | 473,411              | —                            | —                                                       | —                      | 473,411                         |
| Saskatchewan.....               | 117,705                     | 17,749                       | —                                    | 135,454              | —                            | —                                                       | —                      | 135,454                         |
| Alberta.....                    | 76,994                      | 4,455                        | 69,520                               | 150,969              | —                            | —                                                       | —                      | 150,969                         |
| British Columbia and Yukon..... | 48,666                      | 3,983                        | 559,881                              | 612,530              | —                            | —                                                       | —                      | 612,530                         |
| <b>Totals, 1932...</b>          | <b>456,674</b>              | <b>35,600</b>                | <b>6,036,259</b>                     | <b>6,528,533</b>     | —                            | —                                                       | —                      | <b>6,528,533</b>                |

**Fuel.**—The fuel used in industrial establishments in 1932 included 4,184,299 tons of bituminous coal valued at \$22,063,901, constituting 58.1 p.c. of the total fuel cost. The other chief fuels in order of value were: fuel oil, comprising 13.2 p.c., gas (principally manufactured gas) 12.5 p.c., anthracite coal 4.8 p.c., coke 4.3 p.c. and wood 4.1 p.c. Out of a fuel account of about \$38,000,000, Ontario expended \$18,101,434 or 47.7 p.c. of the total. The manufacturing concerns of Quebec expended \$9,688,778, British Columbia \$2,551,125 and Nova Scotia \$1,844,901.

The groups of industries in which fuel was most extensively used in 1932 were: non-metallic minerals \$8,306,496, wood and paper \$7,807,857, vegetable products \$5,668,346 and iron and its products \$5,126,028. Fuel is used quite generally throughout the industrial field for the generation of power by means of internal combustion and steam engines. The most important industries where heat is applied directly to materials to transform them or to facilitate their manipulation are foundries and machine shops, blast furnaces and steel mills, smelting plants, brick-, tile-, lime- and cement-making, petroleum refining and the glass industry. In such industries as the manufacture of coke and gas the coal used as a material which enters into the actual composition of the product is not treated as a fuel but as a raw material and is not, therefore, included in the figures of Table 34.

The total annual expenditure on fuel decreased by \$13,692,946 or 26.5 p.c. in the 11 years from 1921 to 1932, covered by the summary figures in Table 34. During this period prices of fuels generally have declined. Thus there has been an increase of 2.0 p.c. in the quantity of bituminous coal used while the value has decreased 36.5 p.c.

**34.—Total Values of Fuels Used in the Manufacturing Industries of Canada, 1921-32, with Details by Provinces and Groups, 1932.**

| Province or Group.                | Bituminous Coal. |            | Anthracite and Lignite Coal. | Coke.     | Oil.      | Wood.     | Gas.      | Total. <sup>1</sup> |
|-----------------------------------|------------------|------------|------------------------------|-----------|-----------|-----------|-----------|---------------------|
|                                   | Quantity.        | Value.     |                              |           |           |           |           |                     |
|                                   | tons             | \$         | \$                           | \$        | \$        | \$        | \$        | \$                  |
| <b>Totals, 1921...</b>            | 4,103,071        | 34,753,681 | 2,915,752                    | 2,497,400 | 5,417,800 | -         | -         | 51,640,912          |
| <b>Totals, 1922...</b>            | 4,101,463        | 29,914,585 | 3,616,185                    | 3,299,016 | 5,649,071 | 2,085,444 | 1,616,802 | 48,920,505          |
| <b>Totals, 1923...</b>            | 5,338,446        | 38,283,135 | 4,614,239                    | 3,238,257 | 6,241,692 | 2,514,157 | 1,904,058 | 58,736,938          |
| <b>Totals, 1924...</b>            | 5,518,255        | 34,438,554 | 4,642,654                    | 2,250,232 | 5,780,752 | 2,595,064 | 4,711,186 | 57,068,214          |
| <b>Totals, 1925...</b>            | 5,902,197        | 34,034,531 | 2,564,489                    | 5,045,239 | 7,246,961 | 2,700,979 | 3,570,180 | 57,818,701          |
| <b>Totals, 1926...</b>            | 6,409,227        | 36,723,359 | 2,266,935                    | 4,176,584 | 7,371,769 | 2,645,505 | 4,233,073 | 59,695,997          |
| <b>Totals, 1927...</b>            | 6,470,803        | 36,053,827 | 2,435,720                    | 3,890,378 | 7,230,529 | 2,492,495 | 5,272,735 | 60,106,218          |
| <b>Totals, 1928...</b>            | 6,639,736        | 37,871,736 | 2,070,989                    | 1,819,347 | 7,300,552 | 2,439,104 | 5,434,805 | 59,761,267          |
| <b>Totals, 1929...</b>            | 7,062,234        | 39,315,723 | 1,986,332                    | 2,354,542 | 8,778,491 | 2,693,629 | 6,214,847 | 64,425,489          |
| <b>Totals, 1930...</b>            | 6,385,728        | 34,073,553 | 1,892,789                    | 1,927,214 | 7,847,513 | 2,282,402 | 5,953,767 | 56,518,747          |
| <b>Totals, 1931...</b>            | 5,336,545        | 28,809,385 | 1,134,356                    | 1,809,671 | 5,952,146 | 1,795,813 | 4,970,315 | 46,642,568          |
| <b>PROVINCE, 1932.</b>            |                  |            |                              |           |           |           |           |                     |
| P.E. Island.....                  | 12,740           | 79,952     | 2,264                        | 5,511     | 12,086    | 12,083    | -         | 115,017             |
| Nova Scotia.....                  | 254,185          | 1,096,511  | 18,595                       | 87,588    | 341,504   | 34,454    | -         | 1,844,901           |
| New Brunswick...                  | 272,556          | 1,319,696  | 7,593                        | 25,826    | 43,382    | 67,381    | 174,920   | 1,503,559           |
| Quebec.....                       | 1,043,253        | 6,043,779  | 587,306                      | 261,676   | 1,472,771 | 456,262   | 642,772   | 9,688,778           |
| Ontario.....                      | 2,071,563        | 10,846,893 | 412,709                      | 1,014,963 | 1,647,556 | 474,230   | 3,269,980 | 18,101,434          |
| Manitoba.....                     | 117,552          | 805,779    | 350,618                      | 58,497    | 164,618   | 122,289   | 123,948   | 1,669,770           |
| Saskatchewan.....                 | 154,430          | 766,096    | 193,245                      | 27,185    | 356,041   | 41,364    | 58,221    | 1,483,209           |
| Alberta.....                      | 92,450           | 238,578    | 253,933                      | 42,706    | 88,840    | 25,752    | 311,571   | 990,173             |
| British Columbia and Yukon.....   | 165,570          | 865,717    | 15,536                       | 93,796    | 907,876   | 316,350   | 129,571   | 2,551,125           |
| <b>Totals, 1932...</b>            | 4,181,299        | 22,063,901 | 1,811,799                    | 1,617,748 | 5,034,977 | 1,550,168 | 4,732,154 | 37,947,966          |
| <b>GROUP OF INDUSTRIES, 1932.</b> |                  |            |                              |           |           |           |           |                     |
| Vegetable products                | 536,236          | 2,821,899  | 558,292                      | 407,123   | 650,446   | 378,672   | 646,720   | 5,668,346           |
| Animal products                   | 287,059          | 1,583,301  | 184,818                      | 10,010    | 128,291   | 427,228   | 73,182    | 2,497,164           |
| Textiles and textile products     | 435,833          | 2,594,325  | 234,204                      | 46,249    | 176,684   | 58,356    | 81,476    | 3,274,218           |
| Wood and paper products           | 1,122,036        | 6,015,431  | 229,304                      | 55,988    | 663,191   | 395,268   | 144,243   | 7,807,857           |
| Iron and its products             | 592,825          | 2,916,977  | 298,401                      | 276,460   | 622,439   | 30,265    | 893,292   | 5,126,028           |
| Non-ferrous metal products        | 191,953          | 1,079,261  | 38,644                       | 99,836    | 454,926   | 19,358    | 141,924   | 1,871,715           |
| Non-metallic mineral products     | 500,683          | 2,641,285  | 50,436                       | 675,649   | 1,913,180 | 190,955   | 2,703,813 | 8,306,496           |
| Chemicals and chemical products   | 203,668          | 997,935    | 43,221                       | 36,138    | 70,106    | 21,535    | 21,593    | 1,263,465           |
| Miscellaneous industries          | 34,345           | 211,920    | 16,554                       | 10,295    | 35,884    | 3,350     | 14,402    | 299,162             |
| Central electric stations         | 279,061          | 1,201,567  | 187,925                      | -         | 319,830   | 25,181    | 11,509    | 1,833,515           |

<sup>1</sup>Includes other kinds of fuel which in 1932 were as follows: Gasolene, \$290,806 and other fuels \$816,413.

## Section 5.—Manufacturing Industries in Cities and Towns.

The prosperity of most of the cities and towns of Canada, especially in the East, is intimately connected with their manufacturing industries, which provide employment for a large proportion of their gainfully occupied population. In the West the cities are more largely distributing centres, though manufactures are rapidly increasing there also.

Table 35, indicating the extent to which the manufacturing industries of Canada are concentrated in urban centres, shows, by provinces, the proportion of the gross manufacturing production which is produced in cities and towns having a gross production of over \$1,000,000 each. In the more highly industrialized provinces of Ontario and Quebec such cities and towns account for about 87 p.c. of the total, while in British Columbia and Prince Edward Island, where sawmilling, fish packing, and dairying are leading industries, the proportion falls to 55 p.c. or less. In the Prairie Provinces manufacturing is largely confined to a few large urban centres.

### 35.—Cities and Towns with a Gross Manufacturing Production of over \$1,000,000 each, Number of Establishments and Total Gross Production in such Cities and Towns as a Percentage of the Grand Total, by Provinces, 1932.

NOTE.—Statistics published in this table are in some cases higher than the figures published in Table 37, as in the table below statistics of towns with fewer than three establishments and a production of over \$1,000,000 each are included. It was not possible to publish this information in Table 37 without disclosing the operations of individual establishments. The statistics in this table do not include central electric stations.

| Province.                 | Cities and Towns with a Gross Production of over \$1,000,000 each. | Establishments Reporting in Cities and Towns Producing over \$1,000,000 each. | Total Production in Cities and Towns Producing over \$1,000,000 each. | Total Production in each Province. | Production in Cities and Towns as a Percentage of Total Production in each Province. |
|---------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------|
|                           | No.                                                                | No.                                                                           | \$                                                                    | \$                                 | p.c.                                                                                 |
| Prince Edward Island..... | 1                                                                  | 35                                                                            | 1,422,336                                                             | 3,292,413                          | 43.2                                                                                 |
| Nova Scotia.....          | 5                                                                  | 194                                                                           | 31,722,847                                                            | 45,994,642                         | 69.0                                                                                 |
| New Brunswick.....        | 7                                                                  | 213                                                                           | 33,244,614                                                            | 44,132,136                         | 75.4                                                                                 |
| Quebec.....               | 43                                                                 | 3,167                                                                         | 515,396,596                                                           | 623,696,689                        | 82.5                                                                                 |
| Ontario.....              | 90                                                                 | 5,738                                                                         | 878,646,386                                                           | 978,444,681                        | 89.8                                                                                 |
| Manitoba.....             | 4                                                                  | 612                                                                           | 76,686,023                                                            | 89,521,888                         | 85.7                                                                                 |
| Saskatchewan.....         | 4                                                                  | 219                                                                           | 26,552,990                                                            | 31,623,406                         | 84.0                                                                                 |
| Alberta.....              | 5                                                                  | 353                                                                           | 43,204,117                                                            | 50,612,808                         | 85.4                                                                                 |
| British Columbia.....     | 6                                                                  | 978                                                                           | 72,191,458                                                            | 130,455,659                        | 55.3                                                                                 |
| <b>Canada.....</b>        | <b>165</b>                                                         | <b>11,509</b>                                                                 | <b>1,679,067,367</b>                                                  | <b>1,997,774,322</b>               | <b>84.0</b>                                                                          |

The five chief manufacturing cities of Canada are Montreal, Toronto, Hamilton, Winnipeg and Vancouver. Statistics showing the trend of production in these cities during the latest five years for which the figures are available are given in Table 36. According to the Census of 1931, Hamilton was proportionately the most largely dependent of these cities upon manufacturing industries. About 45 p.c. of its gainfully occupied population was employed in manufacturing, as compared with 28 p.c. in Toronto, 27 p.c. in Montreal, 18 p.c. in Winnipeg and 16 p.c. in Vancouver.

Thirteen other important cities with a gross production of manufactured goods of over \$15,000,000 in 1932 were as follows in descending order of the value of their products: London, Kitchener, Quebec, Sarnia, Montreal East, Calgary, Ottawa, Oshawa, Peterboro, Three Rivers, Walkerville, East Windsor and Brantford. Statistics of manufactures of cities and towns with a gross production of \$1,000,000 and over and with three or more establishments are given for 1932 in Table 37.

### 36.—Principal Statistics of the Manufacturing Industries of the Five Leading Manufacturing Cities of Canada, 1929-33.

NOTE.—For comparable figures for the years 1922-28 the reader is referred to p. 467 of the 1933 Year Book. Statistics for 1932 and 1933 do not include central electric stations.

| City and Year.     | Estab-lish-ments. | Capital.    | Em-ployees. | Salaries and Wages. | Cost of Materials. | Gross Value of Products. |
|--------------------|-------------------|-------------|-------------|---------------------|--------------------|--------------------------|
|                    | No.               | \$          | No.         | \$                  | \$                 | \$                       |
| Montreal.....1929  | 1,818             | 495,081,057 | 104,330     | 125,501,945         | 293,927,832        | 598,832,894              |
| 1930               | 1,825             | 485,332,181 | 98,905      | 115,753,191         | 250,718,415        | 532,404,756              |
| 1931               | 1,992             | 469,455,443 | 91,327      | 102,368,420         | 194,793,369        | 438,237,287              |
| 1932               | 2,088             | 363,851,307 | 78,633      | 80,734,197          | 147,093,263        | 310,502,225              |
| 1933               | 2,226             | 363,342,078 | 80,212      | 74,150,933          | 148,504,215        | 300,636,197              |
| Toronto.....1929   | 2,236             | 549,328,334 | 102,406     | 133,722,929         | 304,208,614        | 593,253,569              |
| 1930               | 2,320             | 524,161,983 | 94,745      | 121,221,281         | 253,974,080        | 521,540,080              |
| 1931               | 2,443             | 518,626,003 | 91,105      | 115,043,020         | 195,476,790        | 426,583,692              |
| 1932               | 2,370             | 417,748,359 | 76,652      | 88,204,053          | 147,910,861        | 323,326,758              |
| 1933               | 2,604             | 388,995,096 | 75,645      | 80,855,883          | 146,286,472        | 308,983,639              |
| Hamilton.....1929  | 416               | 221,427,642 | 35,375      | 47,535,648          | 94,404,240         | 197,949,081              |
| 1930               | 439               | 214,227,256 | 31,053      | 39,661,672          | 75,785,992         | 166,910,535              |
| 1931               | 450               | 209,615,031 | 26,539      | 31,657,029          | 50,201,527         | 125,164,616              |
| 1932               | 445               | 176,981,408 | 21,733      | 23,378,011          | 34,372,679         | 83,068,855               |
| 1933               | 469               | 171,625,614 | 21,524      | 21,523,337          | 35,672,272         | 83,530,255               |
| Winnipeg.....1929  | 501               | 125,321,028 | 19,150      | 25,216,932          | 55,116,644         | 109,320,746              |
| 1930               | 519               | 123,781,546 | 19,749      | 25,844,816          | 45,720,081         | 94,407,201               |
| 1931               | 543               | 129,849,693 | 17,693      | 22,292,946          | 32,005,602         | 73,723,211               |
| 1932               | 559               | 70,201,107  | 16,119      | 17,426,358          | 26,989,727         | 56,415,286               |
| 1933               | 600               | 73,886,398  | 15,336      | 15,155,637          | 28,355,612         | 55,287,280               |
| Vancouver.....1929 | 639               | 129,078,372 | 16,663      | 21,882,312          | 50,933,163         | 99,646,413               |
| 1930               | 681               | 128,684,902 | 16,068      | 20,874,524          | 45,730,258         | 90,975,000               |
| 1931               | 681               | 126,641,532 | 14,209      | 17,094,786          | 33,270,166         | 72,999,316               |
| 1932               | 717               | 78,670,170  | 11,851      | 12,506,703          | 26,970,636         | 54,532,881               |
| 1933               | 746               | 74,209,271  | 12,094      | 11,754,124          | 28,588,106         | 55,160,883               |

### 37.—Statistics of Manufactures of Municipalities with a Gross Production of \$1,000,000 or over each, and with Three or more Establishments, 1932.

| City or Town.                               | Estab-lish-ments. | Capital.    | Em-ployees. | Salaries and Wages. | Cost of Materials. | Gross value of Products. |
|---------------------------------------------|-------------------|-------------|-------------|---------------------|--------------------|--------------------------|
|                                             | No.               | \$          | No.         | \$                  | \$                 | \$                       |
| Prince Edward Island—<br>Charlottetown..... | 35                | 1,716,051   | 429         | 404,808             | 677,870            | 1,422,336                |
| Nova Scotia—<br>Halifax.....                | 114               | 17,544,126  | 3,226       | 3,495,023           | 4,292,967          | 10,914,633               |
| Dartmouth.....                              | 12                | 12,105,620  | 750         | 999,172             | 6,858,853          | 10,653,525               |
| Sydney.....                                 | 32                | 24,307,570  | 723         | 826,764             | 1,919,047          | 3,971,800                |
| Liverpool.....                              | 8                 | 11,006,290  | 459         | 660,910             | 1,136,250          | 3,661,540                |
| Truro.....                                  | 28                | 3,096,791   | 923         | 642,086             | 1,322,250          | 2,521,349                |
| New Brunswick—<br>Saint John.....           | 127               | 16,394,270  | 2,436       | 2,627,385           | 8,128,842          | 14,083,061               |
| Moncton.....                                | 48                | 6,984,411   | 2,131       | 2,013,980           | 2,615,682          | 5,207,762                |
| Edmundston.....                             | 8                 | 9,672,773   | 424         | 395,869             | 1,323,788          | 2,566,954                |
| St. Stephen.....                            | 14                | 2,178,491   | 542         | 485,482             | 915,238            | 1,952,101                |
| Bathurst.....                               | 12                | 8,153,748   | 320         | 360,808             | 540,542            | 1,151,914                |
| Milltown.....                               | 3                 | 2,009,711   | 474         | 526,987             | 428,745            | 1,086,718                |
| Quebec—<br>Montreal.....                    | 2,088             | 363,851,307 | 78,633      | 80,734,197          | 147,093,263        | 310,502,225              |
| Quebec.....                                 | 272               | 44,432,575  | 8,202       | 7,394,929           | 10,993,084         | 26,139,028               |
| Montreal East.....                          | 8                 | 43,935,087  | 1,365       | 1,859,247           | 10,815,330         | 21,263,598               |
| Three Rivers.....                           | 51                | 61,106,484  | 4,415       | 3,927,757           | 6,883,251          | 17,787,542               |
| La Salle.....                               | 9                 | 26,611,337  | 1,085       | 1,336,985           | 4,839,795          | 11,037,278               |
| Drummondville.....                          | 24                | 18,291,864  | 2,776       | 2,570,683           | 3,257,591          | 10,028,724               |
| Sherbrooke.....                             | 68                | 18,008,113  | 3,325       | 2,759,515           | 3,133,427          | 8,986,437                |
| La Machine.....                             | 36                | 18,055,257  | 1,974       | 2,831,094           | 3,093,037          | 7,936,843                |
| Granby.....                                 | 34                | 9,019,093   | 2,703       | 2,021,404           | 2,924,264          | 7,793,843                |
| St. Hyacinthe.....                          | 54                | 10,654,007  | 2,643       | 1,769,642           | 3,678,095          | 7,076,607                |
| Shawinigan Falls.....                       | 23                | 44,194,780  | 1,590       | 1,657,510           | 2,106,627          | 6,429,984                |



## 37.—Statistics of Manufactures of Municipalities with a Gross Production of \$1,000,000 or over each, and with Three or more Establishments, 1932—continued.

| City or Town.            | Estab-<br>lish-<br>ments. | Capital.    | Em-<br>ployees. | Salaries<br>and<br>Wages. | Cost of<br>Materials. | Gross Value<br>of<br>Products. |
|--------------------------|---------------------------|-------------|-----------------|---------------------------|-----------------------|--------------------------------|
|                          | No.                       | \$          | No.             | \$                        | \$                    | \$                             |
| <b>Quebec—continued.</b> |                           |             |                 |                           |                       |                                |
| Hull.....                | 45                        | 10,269,954  | 1,855           | 1,835,980                 | 2,575,260             | 6,037,149                      |
| Magog.....               | 16                        | 6,252,319   | 1,324           | 1,031,883                 | 4,242,287             | 5,993,616                      |
| St. Jérôme.....          | 31                        | 7,757,517   | 1,857           | 1,443,356                 | 1,692,751             | 5,442,772                      |
| St. Jean.....            | 42                        | 9,910,463   | 2,021           | 1,631,174                 | 2,163,323             | 4,684,537                      |
| Valleyfield.....         | 31                        | 10,939,052  | 2,214           | 1,592,040                 | 1,828,311             | 4,298,827                      |
| Kenogami.....            | 4                         | 14,634,040  | 722             | 847,760                   | 1,747,167             | 3,782,876                      |
| Grand Mère.....          | 12                        | 15,940,654  | 1,103           | 850,460                   | 1,204,221             | 3,298,384                      |
| Westmount.....           | 10                        | 2,203,796   | 776             | 1,016,470                 | 948,994               | 3,039,649                      |
| Buckingham.....          | 11                        | 10,598,158  | 430             | 502,005                   | 1,076,804             | 3,031,754                      |
| La Tuque.....            | 12                        | 10,610,274  | 835             | 711,278                   | 1,259,252             | 2,573,053                      |
| Louiseville.....         | 12                        | 1,713,391   | 991             | 533,545                   | 1,356,290             | 2,517,630                      |
| Belœil.....              | 10                        | 2,815,516   | 253             | 268,355                   | 1,045,942             | 2,487,342                      |
| Cowansville.....         | 12                        | 2,332,743   | 757             | 546,556                   | 1,114,571             | 2,206,893                      |
| Brownsville.....         | 7                         | 1,576,789   | 484             | 505,303                   | 656,177               | 2,188,614                      |
| St. Joseph d'Alma.....   | 8                         | 14,382,915  | 307             | 469,525                   | 820,023               | 2,165,204                      |
| Windsor.....             | 8                         | 4,642,473   | 487             | 442,799                   | 688,916               | 2,077,611                      |
| St. Pierre.....          | 11                        | 5,837,177   | 470             | 639,984                   | 735,359               | 2,023,018                      |
| Victoriaville.....       | 22                        | 2,087,761   | 924             | 661,609                   | 702,306               | 1,882,392                      |
| Verdun.....              | 21                        | 3,306,515   | 897             | 778,232                   | 818,653               | 1,818,253                      |
| Joliette.....            | 47                        | 2,253,050   | 703             | 465,146                   | 708,562               | 1,584,608                      |
| Outremont.....           | 11                        | 2,176,276   | 448             | 485,961                   | 703,308               | 1,576,006                      |
| East Angus.....          | 8                         | 7,500,935   | 411             | 385,603                   | 970,108               | 1,536,211                      |
| Port d'Alfred.....       | 3                         | 19,971,001  | 310             | 276,165                   | 346,763               | 1,394,997                      |
| Cap de la Madeleine..... | 10                        | 1,154,813   | 325             | 189,466                   | 758,711               | 1,332,845                      |
| Beauharnois.....         | 9                         | 3,412,079   | 351             | 298,954                   | 380,072               | 1,285,216                      |
| Farnham.....             | 10                        | 4,104,101   | 399             | 393,254                   | 647,866               | 1,282,478                      |
| Sorel.....               | 18                        | 1,754,722   | 752             | 599,349                   | 323,959               | 1,243,124                      |
| Conticook.....           | 20                        | 1,838,215   | 550             | 275,979                   | 619,321               | 1,166,205                      |
| Plessisville.....        | 14                        | 1,047,409   | 312             | 218,105                   | 552,886               | 1,088,412                      |
| Montmagny.....           | 21                        | 2,348,504   | 533             | 274,826                   | 391,722               | 1,060,874                      |
| <b>Ontario—</b>          |                           |             |                 |                           |                       |                                |
| Toronto.....             | 2,370                     | 417,748,359 | 76,652          | 88,204,053                | 147,910,861           | 323,326,758                    |
| Hamilton.....            | 445                       | 176,981,408 | 21,733          | 23,378,011                | 34,372,679            | 83,068,855                     |
| London.....              | 247                       | 36,166,997  | 8,149           | 8,395,717                 | 11,277,143            | 30,293,252                     |
| Kitchener.....           | 142                       | 31,260,111  | 7,128           | 6,483,196                 | 10,043,518            | 26,190,794                     |
| Sarnia.....              | 17                        | 22,684,769  | 2,513           | 3,237,469                 | 16,270,344            | 22,654,289                     |
| Ottawa.....              | 221                       | 36,185,987  | 6,129           | 7,048,840                 | 7,276,871             | 20,084,384                     |
| Oshawa.....              | 45                        | 20,721,525  | 3,925           | 4,374,646                 | 11,231,665            | 19,176,993                     |
| Peterboro.....           | 81                        | 21,441,928  | 4,242           | 3,959,158                 | 8,316,509             | 18,302,460                     |
| Walkerville.....         | 61                        | 29,770,104  | 3,205           | 3,714,556                 | 10,685,564            | 17,478,790                     |
| East Windsor.....        | 13                        | 19,815,419  | 4,098           | 5,847,408                 | 8,844,754             | 16,360,226                     |
| Brantford.....           | 97                        | 42,549,033  | 4,859           | 4,546,108                 | 6,632,608             | 15,274,331                     |
| Windsor.....             | 164                       | 17,785,622  | 2,674           | 3,306,913                 | 4,557,068             | 12,673,382                     |
| New Toronto.....         | 13                        | 25,722,682  | 1,946           | 2,300,517                 | 4,742,321             | 11,896,840                     |
| Niagara Falls.....       | 56                        | 24,285,303  | 1,781           | 2,120,358                 | 3,141,050             | 11,016,599                     |
| Guelph.....              | 92                        | 13,430,748  | 3,441           | 2,908,284                 | 3,841,757             | 10,264,678                     |
| St. Catharines.....      | 101                       | 16,414,466  | 3,310           | 3,218,272                 | 4,185,261             | 10,259,446                     |
| Cornwall.....            | 32                        | 19,412,794  | 3,556           | 3,124,158                 | 3,462,396             | 10,074,447                     |
| Chatham.....             | 57                        | 12,087,714  | 1,746           | 1,736,585                 | 5,977,288             | 9,594,360                      |
| Port Colborne.....       | 16                        | 12,772,919  | 467             | 534,711                   | 5,219,793             | 8,811,725                      |
| Welland.....             | 45                        | 23,093,087  | 2,661           | 2,312,928                 | 3,573,098             | 8,611,031                      |
| Thorold.....             | 18                        | 29,966,609  | 1,298           | 1,781,596                 | 3,341,362             | 8,455,061                      |
| Sault Ste. Marie.....    | 42                        | 50,505,242  | 1,537           | 2,190,236                 | 3,442,754             | 8,454,978                      |
| Galt.....                | 79                        | 12,691,326  | 3,191           | 2,685,332                 | 2,721,860             | 7,161,686                      |
| Leamington.....          | 15                        | 5,871,403   | 844             | 586,662                   | 3,591,695             | 6,977,295                      |
| Stratford.....           | 59                        | 8,125,764   | 2,439           | 2,248,989                 | 2,846,420             | 6,310,370                      |
| Woodstock.....           | 52                        | 7,136,937   | 1,966           | 1,757,844                 | 2,741,565             | 6,152,573                      |
| Kapuskasing.....         | 5                         | 32,280,478  | 805             | 1,020,418                 | 1,350,191             | 5,291,667                      |
| Wallaceburg.....         | 16                        | 5,577,764   | 908             | 993,374                   | 2,331,581             | 4,503,287                      |
| Fort William.....        | 39                        | 22,107,986  | 827             | 1,025,449                 | 1,868,183             | 4,461,698                      |
| Simcoe.....              | 22                        | 5,908,232   | 723             | 655,703                   | 2,710,228             | 4,416,430                      |
| Leaside.....             | 12                        | 7,320,100   | 960             | 1,193,250                 | 2,543,199             | 4,275,462                      |
| Kingston.....            | 59                        | 7,895,730   | 1,085           | 1,054,422                 | 1,715,906             | 3,630,571                      |
| Delhi.....               | 7                         | 5,180,306   | 288             | 218,819                   | 2,941,500             | 3,334,995                      |
| Preston.....             | 35                        | 5,608,741   | 1,297           | 1,090,376                 | 1,439,822             | 3,325,494                      |
| Waterloo.....            | 31                        | 9,827,304   | 941             | 790,204                   | 1,310,453             | 3,322,904                      |
| Port Arthur.....         | 27                        | 14,551,951  | 823             | 1,050,562                 | 1,211,571             | 3,308,086                      |
| Owen Sound.....          | 52                        | 5,646,794   | 1,325           | 1,028,444                 | 1,361,525             | 3,221,117                      |
| Merrittville.....        | 11                        | 5,119,225   | 531             | 721,761                   | 1,284,146             | 3,142,780                      |
| Belleville.....          | 44                        | 10,095,871  | 1,010           | 880,709                   | 1,028,694             | 3,086,796                      |
| Brockville.....          | 34                        | 5,799,985   | 812             | 810,447                   | 1,502,928             | 3,050,584                      |
| Goderich.....            | 14                        | 1,820,705   | 299             | 284,260                   | 2,067,586             | 2,985,483                      |

37.—Statistics of Manufactures of Municipalities with a Gross Production of \$1,000,000 or over each, and with Three or more Establishments, 1932—concluded.

| City or Town.             | Estab-lish-ments. | Capital.   | Em-ployees. | Salaries and Wages. | Cost of Materials. | Gross Value of Products. |
|---------------------------|-------------------|------------|-------------|---------------------|--------------------|--------------------------|
|                           | No.               | \$         | No.         | \$                  | \$                 | \$                       |
| <b>Ontario—concluded.</b> |                   |            |             |                     |                    |                          |
| Pembroke.....             | 32                | 5,360,254  | 864         | 746,335             | 1,486,322          | 2,788,098                |
| Sandwich.....             | 8                 | 4,946,187  | 433         | 601,465             | 211,221            | 2,773,145                |
| Cobourg.....              | 28                | 2,952,027  | 540         | 535,443             | 984,652            | 2,748,166                |
| Paris.....                | 17                | 3,933,855  | 993         | 783,192             | 1,181,556          | 2,547,016                |
| Fort Francis.....         | 8                 | 5,521,707  | 381         | 462,837             | 942,692            | 2,524,793                |
| Tilbury.....              | 6                 | 965,282    | 342         | 292,672             | 1,774,366          | 2,485,526                |
| Perth.....                | 18                | 3,622,133  | 740         | 786,709             | 1,031,852          | 2,468,795                |
| Newmarket.....            | 13                | 3,806,426  | 594         | 496,842             | 1,201,864          | 2,451,507                |
| Hespeler.....             | 15                | 4,865,614  | 999         | 812,839             | 975,381            | 2,304,512                |
| St. Marys.....            | 18                | 4,811,592  | 393         | 418,837             | 963,349            | 2,284,677                |
| Petrolia.....             | 10                | 4,051,517  | 162         | 204,988             | 1,416,972          | 2,196,374                |
| Fergus.....               | 12                | 1,153,942  | 577         | 536,536             | 958,943            | 2,163,076                |
| St. Thomas.....           | 41                | 3,047,853  | 836         | 715,662             | 922,740            | 2,109,364                |
| Hawkesbury.....           | 9                 | 4,181,115  | 391         | 410,166             | 1,393,834          | 2,104,383                |
| Cardinal.....             | 6                 | 3,745,344  | 340         | 423,919             | 951,784            | 2,076,218                |
| Brampton.....             | 20                | 2,146,918  | 808         | 769,058             | 1,021,639          | 2,075,099                |
| Ingersoll.....            | 23                | 4,132,980  | 580         | 542,904             | 1,140,305          | 2,069,026                |
| Dunnville.....            | 20                | 3,013,371  | 756         | 660,592             | 1,152,020          | 1,976,037                |
| Renfrew.....              | 23                | 3,958,355  | 607         | 586,493             | 947,955            | 1,924,137                |
| Huntsville.....           | 13                | 2,462,235  | 314         | 229,847             | 977,431            | 1,907,972                |
| Weston.....               | 15                | 3,750,299  | 533         | 553,221             | 531,497            | 1,839,567                |
| Bowmanville.....          | 15                | 3,886,108  | 403         | 366,779             | 573,436            | 1,781,606                |
| Trenton.....              | 23                | 3,476,761  | 528         | 444,368             | 857,815            | 1,726,968                |
| Lindsay.....              | 29                | 1,819,261  | 340         | 326,054             | 492,693            | 1,698,027                |
| Amherstburg.....          | 9                 | 11,337,725 | 253         | 343,689             | 310,205            | 1,681,582                |
| Elora.....                | 8                 | 3,837,578  | 346         | 353,122             | 701,239            | 1,679,428                |
| Bridgeburg.....           | 15                | 2,023,114  | 196         | 247,704             | 673,101            | 1,649,234                |
| Tilsonburg.....           | 16                | 1,729,348  | 418         | 369,840             | 944,048            | 1,595,021                |
| Georgetown.....           | 12                | 2,502,432  | 477         | 399,202             | 890,052            | 1,551,943                |
| Orillia.....              | 31                | 2,704,535  | 578         | 496,115             | 711,412            | 1,506,613                |
| Kenora.....               | 14                | 10,796,216 | 278         | 263,799             | 1,007,240          | 1,473,380                |
| Midland.....              | 16                | 2,121,093  | 308         | 260,802             | 1,032,125          | 1,468,843                |
| Aurora.....               | 8                 | 1,194,221  | 395         | 372,891             | 783,445            | 1,458,588                |
| Sudbury.....              | 28                | 2,390,457  | 338         | 352,744             | 751,523            | 1,407,879                |
| Chesterville.....         | 6                 | 707,672    | 175         | 212,585             | 608,267            | 1,324,456                |
| Hanover.....              | 14                | 2,967,687  | 548         | 410,267             | 617,215            | 1,314,104                |
| Aylmer.....               | 10                | 2,205,271  | 168         | 170,290             | 565,781            | 1,268,880                |
| Dundas.....               | 23                | 3,878,438  | 497         | 498,840             | 462,105            | 1,255,044                |
| Kingsville.....           | 11                | 1,477,137  | 268         | 190,710             | 783,551            | 1,253,864                |
| Barrie.....               | 15                | 1,144,183  | 318         | 314,296             | 686,944            | 1,191,292                |
| Grimsby.....              | 16                | 1,615,072  | 319         | 264,912             | 521,401            | 1,135,067                |
| Port Hope.....            | 27                | 1,685,022  | 492         | 471,830             | 366,202            | 1,082,527                |
| Listowel.....             | 15                | 766,558    | 401         | 264,090             | 608,883            | 1,068,015                |
| Arnprior.....             | 17                | 1,615,794  | 223         | 261,806             | 323,486            | 1,011,613                |
| Acton.....                | 10                | 2,008,578  | 381         | 349,695             | 604,369            | 1,002,378                |
| <b>Manitoba—</b>          |                   |            |             |                     |                    |                          |
| Winnipeg.....             | 559               | 70,201,107 | 16,119      | 17,426,358          | 26,989,727         | 56,415,286               |
| St. Boniface.....         | 39                | 9,513,146  | 1,413       | 1,475,986           | 9,914,712          | 14,933,971               |
| Transcona.....            | 4                 | 6,287,763  | 1,606       | 1,700,538           | 2,194,965          | 4,225,732                |
| Portage la Prairie.....   | 10                | 787,879    | 117         | 117,330             | 870,576            | 1,111,034                |
| <b>Saskatchewan—</b>      |                   |            |             |                     |                    |                          |
| Regina.....               | 92                | 12,196,826 | 1,479       | 1,899,050           | 6,461,020          | 10,368,797               |
| Saskatoon.....            | 71                | 7,877,570  | 1,146       | 1,397,450           | 3,952,118          | 7,704,435                |
| Moose Jaw.....            | 34                | 10,388,082 | 690         | 823,738             | 4,113,066          | 6,572,467                |
| Prince Albert.....        | 22                | 1,576,608  | 333         | 373,445             | 829,633            | 1,907,291                |
| <b>Alberta—</b>           |                   |            |             |                     |                    |                          |
| Calgary.....              | 157               | 33,361,700 | 4,090       | 4,527,506           | 11,923,221         | 20,974,281               |
| Edmonton.....             | 147               | 17,209,712 | 3,617       | 3,882,921           | 7,894,070          | 14,803,333               |
| Medicine Hat.....         | 21                | 5,304,636  | 473         | 527,415             | 2,582,102          | 23,640,566               |
| Raymond.....              | 4                 | 3,039,513  | 231         | 233,250             | 1,048,107          | 2,371,954                |
| Lethbridge.....           | 24                | 2,524,839  | 294         | 367,610             | 643,197            | 1,410,993                |
| <b>British Columbia—</b>  |                   |            |             |                     |                    |                          |
| Vancouver.....            | 717               | 78,670,170 | 11,851      | 12,506,703          | 26,970,636         | 54,532,881               |
| New Westminster.....      | 64                | 11,806,437 | 1,512       | 1,513,720           | 4,266,109          | 7,465,203                |
| Victoria.....             | 146               | 10,194,898 | 1,912       | 2,058,217           | 1,965,939          | 5,585,836                |
| Trail.....                | 14                | 12,202,937 | 435         | 772,554             | 1,019,576          | 1,712,474                |
| North Vancouver.....      | 20                | 2,545,119  | 455         | 512,746             | 867,579            | 1,685,979                |
| Prince Rupert.....        | 17                | 3,206,437  | 223         | 288,593             | 620,604            | 1,209,085                |

## CHAPTER XV.—CONSTRUCTION.

Construction is the most conspicuous example of a great industry carried on in almost complete dependence on a local demand. The building industry is not only the most widespread in its operation, it is one which expands most rapidly in good times when it attracts great numbers of general and casual workmen—a characteristic which explains the high rate of unemployment from which the industry periodically suffers. Again, apart from the effect of cyclical fluctuations of general business conditions, the construction industry is decidedly seasonal, although new types of construction and mechanical improvements are making it possible to work more steadily on all branches of construction the year round. Conditions in the industry are being transformed on account of the increasing substitution of reinforced concrete for wood and brick construction. Nevertheless, in the winter there is a serious contraction, especially in outside operations, while in the other seasons the contractors employ a much larger number of men, casually engaged, than can be retained throughout the year. A considerable number of the men are in no sense skilled artisans and the supply of unskilled men is generally in excess of the demand.

### **Relation of Construction Industry to General Business Conditions.—**

Statistics showing activity in construction are of particular interest both to those engaged in the industry itself and to those concerned with the supplying of its raw materials, such as lumber, steel, cement, paint, glass and hardware. All of these latter industries are prosperous when the construction industry is active, and depressed when it is at a standstill; again, the effects of their activity and depression are felt throughout the whole field of industry, so that the current conditions in the construction industry react powerfully upon the whole economic life of the nation. Thus, in the period between 1909 and 1913, construction, mainly financed with borrowed money, contributed in large measure to produce the "boom" of those years, as is indicated in the figures of Table 1.

During the war period the industry was at a low ebb, except for the construction of munition plants, but after the War the housing shortage was a serious problem, and considerable building was undertaken in spite of the high cost of materials and skilled labour, as shown in Table 4. The urgent requirements due to the practical suspension of the industry during the War were fully met in the post-war years, but the peak of the inflation cycle in 1929 is reflected in the highest value of construction contracts on record, aggregating \$576,651,800, exceeding 1928 by no less than \$104,619,200 and the former peak year, 1912, by \$113,568,800. This was followed by consistent declines.

In 1933 the total value of construction contracts awarded had declined to \$97,289,800, which was \$35,582,600 or 26·8 p.c. less than in 1932, and constituted a decline of \$479,362,000 or 83·1 p.c. from the peak in 1929. In 1934, however, the value of the contracts awarded advanced to \$125,811,500, a gain of \$28,521,700 or 29·3 p.c. over 1933, but still \$450,840,300 or 78·2 p.c. under the high point of 1929. (See Table 2.)

**Construction in Transportation and Public Utility Industries.—**The expenditures by railways during 1933 were greatly curtailed; "maintenance of way and structures" was less than half of what it was in 1928, amounting to only \$48,226,441, and "maintenance of equipment" was reduced to \$47,962,504, or to 47 p. c. of the peak year 1928. Expenditures on new lines and additions and betterments were practically eliminated, amounting to only \$208,671 and \$107,684 respectively, whereas during 1926-31 they averaged \$24 million and \$59 million respectively.



Only 0.4 miles of new line were opened for operation during 1933 and 82 miles were closed. At the end of 1933 there were 291 miles of line completed but not opened to traffic and 346 miles of line under contract. Total track mileage in 1933 was 56,698 miles as against 57,023 miles in 1932.

Maintenance expenditures on electric railways have also decreased since 1929, owing to several railways ceasing operation and to retrenchments on the part of the operating lines. In 1933 "maintenance of way and structures" amounted to \$2,300,709 and "maintenance of equipment" to \$2,766,888. The cost of materials used by steam railways for construction purposes was \$17,574,793 and by electric railways \$515,274.

The pole line mileage of telegraph systems increased up to 53,228 miles in 1931, but decreased in 1932 and again in 1933 to 52,112 miles, while wire mileage was also reduced in these two years. During 1932 \$1,228,660 was expended on construction work but in 1933 only \$843,973 was so expended.

Telephone systems spent little on new construction in 1933 and the credits for reductions in lines more than offset the debits by \$363,701. The total number of poles purchased during the year amounted to 50,813, at a cost of \$147,144. The pole line mileage decreased from 220,459 in 1932 to 219,753, but the wire mileage increased from 5,089,261 miles to 5,134,871 miles.

Expenditures by central electric stations during 1933 on construction amounted to \$3,250,940 as against \$2,775,687 in 1932.

**Contracts Awarded.**—A record of contracts awarded during the years 1911-34, as compiled by MacLean Building Reports, Ltd., is given in Table 1. The aggregate for 1934 is 78 p.c. less than that for the record year 1929. It is, however, an improvement over 1933, which was the lowest figure since 1917, when new construction was largely suspended on account of the War. Immigration was exceptionally great in 1912 and an extensive building program was necessary to care for the rapidly growing population; railway construction was also very active. In 1928 the high level was largely accounted for by residential building and industrial contracts were considerably ahead of 1927. Although residential construction declined in 1929, the tremendous increase in engineering construction and the significant advances in building for business purposes combined to make the record total. It will be observed from Table 2 that construction for all purposes has declined greatly since then to the low levels recorded in 1933 and 1934.

**1.—Summary of the Value of Construction Contracts Awarded in Canada, 1911-34, as Compiled by MacLean Building Reports, Ltd.**

| Year.     | Value of<br>Construction<br>Contracts. | Year.     | Value of<br>Construction<br>Contracts. |
|-----------|----------------------------------------|-----------|----------------------------------------|
|           | \$                                     |           | \$                                     |
| 1911..... | 345,425,000                            | 1923..... | 314,254,300                            |
| 1912..... | 463,083,000                            | 1924..... | 276,261,100                            |
| 1913..... | 384,157,000                            | 1925..... | 297,973,000                            |
| 1914..... | 241,952,000                            | 1926..... | 372,947,900                            |
| 1915..... | 83,916,000                             | 1927..... | 418,951,600                            |
| 1916..... | 99,311,000                             | 1928..... | 472,032,600                            |
| 1917..... | 84,841,000                             | 1929..... | 576,651,800                            |
| 1918..... | 99,842,000                             | 1930..... | 456,999,600                            |
| 1919..... | 190,028,000                            | 1931..... | 315,482,000                            |
| 1920..... | 255,605,000                            | 1932..... | 132,872,400                            |
| 1921..... | 240,133,300                            | 1933..... | 97,289,800                             |
| 1922..... | 331,843,800                            | 1934..... | 125,811,500                            |



## 2.—Construction Contracts Awarded in Canada, 1929-34, by Provinces and Types of Construction, as Compiled by MacLean Building Reports, Ltd.

| Distribution.                   | 1929.              | 1930.              | 1931.              | 1932.              | 1933.             | 1934.              |
|---------------------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|
| PROVINCE.                       | \$                 | \$                 | \$                 | \$                 | \$                | \$                 |
| Prince Edward Island.....       | 627,300            | 1,120,500          | 186,800            | 1,071,500          | 386,900           | 384,600            |
| Nova Scotia.....                | 12,744,500         | 7,238,500          | 6,923,800          | 4,009,500          | 2,880,800         | 4,993,700          |
| New Brunswick.....              | 6,809,500          | 11,067,600         | 9,756,800          | 4,258,500          | 3,951,000         | 4,590,300          |
| Quebec.....                     | 187,771,600        | 154,672,000        | 106,125,700        | 52,525,300         | 32,539,200        | 34,135,500         |
| Ontario.....                    | 215,773,100        | 175,459,600        | 125,452,300        | 49,291,800         | 42,573,400        | 63,353,300         |
| Manitoba.....                   | 38,156,500         | 22,010,900         | 13,797,800         | 4,503,500          | 2,138,000         | 3,905,000          |
| Saskatchewan.....               | 34,184,300         | 27,361,300         | 9,200,000          | 2,705,200          | 775,200           | 1,563,200          |
| Alberta.....                    | 29,159,600         | 25,081,700         | 14,334,700         | 5,948,200          | 2,825,900         | 3,489,400          |
| British Columbia.....           | 51,428,400         | 32,987,500         | 29,704,100         | 8,558,900          | 9,219,400         | 9,391,500          |
| <b>Canada.....</b>              | <b>576,651,500</b> | <b>456,999,600</b> | <b>315,482,000</b> | <b>132,872,400</b> | <b>97,289,800</b> | <b>125,811,500</b> |
| TYPE OF CONSTRUCTION.           |                    |                    |                    |                    |                   |                    |
| Apartments.....                 | 22,527,200         | 15,330,300         | 16,202,200         | 1,536,000          | 903,900           | 1,641,900          |
| Residences.....                 | 106,374,100        | 77,961,200         | 65,482,100         | 27,356,600         | 23,025,900        | 28,946,200         |
| <b>Totals, Residential.....</b> | <b>128,901,300</b> | <b>93,291,500</b>  | <b>81,684,300</b>  | <b>28,892,600</b>  | <b>23,929,800</b> | <b>30,588,100</b>  |
| Churches.....                   | 8,867,800          | 7,265,600          | 7,744,600          | 2,736,800          | 2,052,100         | 1,827,900          |
| Public garages.....             | 12,915,100         | 7,049,700          | 3,420,000          | 2,945,400          | 1,881,400         | 2,280,300          |
| Hospitals.....                  | 8,983,700          | 14,036,200         | 12,142,500         | 3,985,900          | 1,879,100         | 4,977,900          |
| Hotels and clubs.....           | 20,110,500         | 13,806,700         | 2,881,100          | 1,436,600          | 1,294,900         | 1,756,000          |
| Office buildings.....           | 37,465,100         | 26,529,600         | 3,575,200          | 3,192,600          | 1,096,100         | 3,989,300          |
| Public buildings.....           | 19,062,600         | 16,804,600         | 16,803,200         | 8,174,300          | 2,784,500         | 7,012,800          |
| Schools.....                    | 22,482,800         | 35,079,800         | 17,852,700         | 6,749,900          | 5,391,100         | 6,161,900          |
| Stores.....                     | 27,353,900         | 10,006,100         | 9,035,900          | 4,742,100          | 3,629,900         | 4,127,000          |
| Theatres.....                   | 3,074,800          | 2,356,100          | 1,308,900          | 663,100            | 483,000           | 633,600            |
| Warehouses.....                 | 29,835,400         | 17,569,300         | 6,410,200          | 4,772,500          | 5,784,400         | 4,713,600          |
| <b>Totals, Business.....</b>    | <b>190,161,700</b> | <b>151,103,700</b> | <b>81,174,300</b>  | <b>39,399,200</b>  | <b>26,276,500</b> | <b>37,480,300</b>  |
| <b>Totals, Industrial.....</b>  | <b>62,968,800</b>  | <b>31,520,000</b>  | <b>14,816,000</b>  | <b>7,820,400</b>   | <b>9,101,900</b>  | <b>8,037,900</b>   |
| Bridges.....                    | 11,218,500         | 11,333,700         | 16,064,600         | 7,675,500          | 6,315,900         | 5,329,800          |
| Dams and wharves.....           | 24,721,300         | 10,281,600         | 3,943,300          | 2,777,600          | 627,500           | 2,932,800          |
| Sewers and water-mains.....     | 17,552,200         | 28,680,800         | 25,620,400         | 10,638,000         | 5,577,400         | 3,873,000          |
| Roads and streets.....          | 41,690,800         | 40,490,200         | 41,035,800         | 20,019,500         | 16,509,700        | 24,432,400         |
| General engineering.....        | 99,437,200         | 90,298,100         | 51,143,300         | 15,649,600         | 8,951,100         | 13,137,200         |
| <b>Totals, Engineering.....</b> | <b>194,620,000</b> | <b>181,084,400</b> | <b>137,807,400</b> | <b>56,760,200</b>  | <b>37,951,600</b> | <b>49,705,200</b>  |

**Building Permits.** The estimated value of construction in 61 cities of Canada, as indicated by their building permits, is shown for the years 1929 to 1934 inclusive in Table 3. These cities had in 1931 about 36 p.c. of the population of Canada, while their 1934 building permits aggregated \$27,457,524 or 21·8 p.c. of the total contracts awarded, as shown in Table 1. In Table 3, the 35 cities for which statistics of building permits are available since 1910 are indicated by an asterisk (\*), and the totals for these cities are given beneath the totals for the larger group.

Table 4 shows the value of the building permits issued by 35 cities in the years 1910-34. The average weighted index numbers of wholesale prices of building materials since 1912 are given, together with index numbers of employment in the construction industries as reported by employers 1920, both these indexes having been compiled by the Dominion Bureau of Statistics. The average index numbers of wages in the building trades since 1910 as compiled by the Department of Labour are also given. These indexes show as far as possible the fluctuations in building costs with their effect upon construction work and employment. At various

times attempts have been made to determine the relative proportions of material and wage costs in general building; such proportions vary with the type of building and the centres studied, and accurate and representative data are difficult to obtain. However, the results of a survey made in 1934 and published in "Building in Canada" (June, 1934) showed that in fifteen cities the average proportions in all types of construction were 63.6 p.c. for materials and 36.4 p.c. for labour. The reduction in the cost of building operations in the past few years has probably been much more than is indicated by the declines in the indexes of wholesale prices and wages. Index numbers of wages in the building trades are based chiefly on union rates in cities, and the types of construction which have been stimulated have been those where the more highly paid trades have not been in great demand. The reduction in common labour costs has been proportionately greater than in the trades. The considerable gain in the index of employment in construction is due partly to a greater volume of public works undertaken as an unemployment relief measure, but there has also been an improvement in general building, as reflected in the value of the contracts awarded and of building permits issued in 1934.

Owing to the increasing use of the automobile and other means of rapid transportation, a growing percentage of those who work in the cities reside outside the municipal boundaries. Hence arises, in part, the necessity for an extension of the record of building permits to include such suburban areas as the York Townships in the case of Toronto, and North Vancouver in the case of Vancouver. South Vancouver and Point Grey were annexed to Vancouver as from Jan. 1, 1929.

The construction contracts in 1934 as shown in Table 2 increased by 29.3 p.c. \* compared with 1933 and the building permits of 61 cities in Table 3 increased by 26.1 p.c.

### 3.—Values of Building Permits Taken Out in 61 Cities for the calendar years 1929-34.

NOTE.—Asterisks indicate the 35 original cities, statistics for which are available since 1910.

| Province and City.               | 1929.             | 1930.             | 1931.             | 1932.             | 1933.            | 1934.            |
|----------------------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|
|                                  | \$                | \$                | \$                | \$                | \$               | \$               |
| <b>Prince Edward Island.....</b> | <b>20,000</b>     | <b>158,000</b>    | <b>1</b>          | <b>587,000</b>    | <b>115,200</b>   | <b>87,310</b>    |
| Charlottetown.....               | 20,000            | 158,000           | 1                 | 587,000           | 115,200          | 87,310           |
| <b>Nova Scotia.....</b>          | <b>5,748,282</b>  | <b>3,564,302</b>  | <b>3,174,980</b>  | <b>1,109,753</b>  | <b>655,294</b>   | <b>835,672</b>   |
| *Halifax.....                    | 5,209,245         | 3,188,345         | 2,964,985         | 933,519           | 598,000          | 749,428          |
| New Glasgow.....                 | 305,370           | 141,250           | 107,165           | 35,890            | 23,060           | 11,252           |
| *Sydney.....                     | 233,667           | 234,707           | 102,830           | 140,344           | 33,325           | 74,992           |
| <b>New Brunswick.....</b>        | <b>2,037,934</b>  | <b>3,034,614</b>  | <b>1,783,462</b>  | <b>648,434</b>    | <b>394,514</b>   | <b>1,277,333</b> |
| Fredericton.....                 | 23,500            | 482,000           | 140,295           | 18,500            | 85,115           | 42,775           |
| *Moncton.....                    | 768,698           | 456,827           | 385,850           | 184,395           | 143,093          | 978,228          |
| *Saint John.....                 | 1,245,736         | 2,095,787         | 1,257,317         | 445,539           | 166,306          | 256,330          |
| <b>Quebec.....</b>               | <b>57,984,175</b> | <b>46,224,208</b> | <b>37,605,584</b> | <b>12,467,878</b> | <b>7,005,774</b> | <b>5,994,676</b> |
| *Montreal-Maisonneuve...         | 46,065,924        | 37,504,590        | 31,876,676        | 10,557,438        | 5,648,862        | 4,098,025        |
| *Quebec.....                     | 5,684,183         | 4,912,257         | 4,049,875         | 1,179,465         | 724,548          | 415,308          |
| Shawinigan Falls.....            | 770,618           | 468,540           | 55,065            | 107,230           | 58,260           | 184,535          |
| *Sherbrooke.....                 | 755,240           | 812,150           | 676,350           | 229,300           | 186,400          | 130,060          |
| *Three Rivers.....               | 1,488,065         | 851,730           | 242,030           | 108,075           | 28,588           | 465,765          |
| *Westmount.....                  | 3,220,145         | 1,674,941         | 705,588           | 286,370           | 359,116          | 700,983          |

<sup>1</sup> No information received.

**3.—Values of Building Permits Taken Out in 61 Cities for the calendar years 1929-34**  
—concluded.

NOTE.—Asterisks indicate the 35 original cities, statistics for which are available since 1910.

| Province and City.             | 1929.              | 1930.              | 1931.              | 1932.             | 1933.             | 1934.             |
|--------------------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|
|                                | \$                 | \$                 | \$                 | \$                | \$                | \$                |
| <b>Ontario</b> .....           | <b>95,055,827</b>  | <b>69,042,946</b>  | <b>44,371,578</b>  | <b>16,887,761</b> | <b>9,116,743</b>  | <b>14,351,380</b> |
| Belleville.....                | 533,730            | 312,360            | 221,900            | 100,705           | 29,700            | 76,455            |
| *Brantford.....                | 473,387            | 1,034,957          | 506,677            | 170,844           | 171,783           | 283,586           |
| Chatham.....                   | 813,560            | 821,258            | 201,365            | 56,215            | 88,720            | 55,200            |
| *Fort William.....             | 1,759,000          | 1,227,300          | 451,000            | 294,100           | 213,400           | 621,700           |
| Galt.....                      | 527,315            | 264,901            | 239,022            | 88,768            | 101,256           | 135,006           |
| *Guelph.....                   | 607,377            | 371,351            | 221,082            | 152,855           | 108,665           | 110,078           |
| *Hamilton.....                 | 7,008,320          | 6,291,100          | 5,026,050          | 1,424,300         | 510,200           | 772,535           |
| *Kingston.....                 | 908,900            | 1,056,986          | 548,199            | 349,039           | 179,667           | 141,398           |
| *Kitchener.....                | 1,645,351          | 1,344,232          | 627,853            | 363,048           | 140,233           | 234,449           |
| *London.....                   | 2,408,900          | 2,744,735          | 1,746,900          | 567,690           | 551,485           | 671,840           |
| Niagara Falls.....             | 905,510            | 483,678            | 158,018            | 168,266           | 43,445            | 73,540            |
| Oshawa.....                    | 1,478,090          | 195,470            | 146,375            | 41,514            | 49,035            | 50,970            |
| *Ottawa.....                   | 3,403,333          | 6,295,275          | 3,154,000          | 1,549,515         | 916,065           | 1,257,000         |
| Owen Sound.....                | 529,850            | 132,000            | 81,975             | 22,415            | 38,875            | 23,885            |
| *Peterborough.....             | 618,278            | 797,895            | 278,526            | 192,919           | 133,900           | 149,238           |
| *Port Arthur.....              | 555,945            | 995,487            | 341,975            | 284,437           | 114,815           | 101,807           |
| *Stratford.....                | 354,849            | 414,410            | 164,535            | 50,068            | 71,662            | 53,095            |
| *St. Catharines.....           | 1,432,392          | 610,067            | 563,626            | 221,566           | 115,356           | 151,648           |
| *St. Thomas.....               | 172,190            | 180,327            | 139,640            | 44,955            | 64,863            | 42,261            |
| Sarnia.....                    | 1,021,962          | 633,899            | 171,818            | 62,404            | 63,847            | 127,203           |
| Sault Ste. Marie.....          | 782,059            | 589,773            | 436,147            | 142,680           | 93,377            | 257,340           |
| *Toronto.....                  | 47,698,654         | 32,130,589         | 22,002,099         | 7,862,693         | 4,415,510         | 7,496,983         |
| York Townships.....            | 9,824,273          | 6,240,998          | 5,948,037          | 1,598,357         | 698,841           | 899,792           |
| Welland.....                   | 301,500            | 196,125            | 209,726            | 67,650            | 46,286            | 108,326           |
| *Windsor.....                  | 5,571,849          | 2,250,130          | 436,507            | 848,377           | 70,485            | 170,102           |
| East Windsor.....              | 561,382            | 424,233            | 22,136             | 44,043            | 1,807             | 142,950           |
| Riverside.....                 | 383,225            | 153,920            | 29,165             | 2,525             | 6,000             | 3,100             |
| Sandwich.....                  | 856,190            | 183,775            | 21,130             | 12,050            | 550               | 49,300            |
| Walkerville.....               | 1,631,000          | 472,000            | 130,000            | 17,000            | 4,000             | 23,000            |
| Woodstock.....                 | 287,456            | 193,715            | 146,095            | 86,933            | 72,915            | 67,593            |
| <b>Manitoba</b> .....          | <b>12,007,695</b>  | <b>7,631,620</b>   | <b>4,953,908</b>   | <b>2,381,433</b>  | <b>851,681</b>    | <b>833,048</b>    |
| *Brandon.....                  | 404,342            | 197,245            | 286,613            | 33,088            | 46,821            | 44,758            |
| St. Boniface.....              | 553,103            | 780,625            | 270,695            | 218,945           | 62,660            | 80,640            |
| *Winnipeg.....                 | 11,050,250         | 6,653,750          | 4,396,600          | 2,129,400         | 742,200           | 707,650           |
| <b>Saskatchewan</b> .....      | <b>16,950,228</b>  | <b>9,544,287</b>   | <b>3,790,002</b>   | <b>2,374,440</b>  | <b>529,497</b>    | <b>722,108</b>    |
| *Moose Jaw.....                | 1,025,474          | 1,058,303          | 473,047            | 392,542           | 44,845            | 350,687           |
| *Regina.....                   | 10,022,631         | 2,971,544          | 1,598,440          | 277,069           | 376,742           | 291,696           |
| *Saskatoon.....                | 5,902,123          | 5,514,440          | 1,718,515          | 1,704,829         | 107,910           | 79,725            |
| <b>Alberta</b> .....           | <b>17,953,321</b>  | <b>9,460,834</b>   | <b>4,730,465</b>   | <b>2,243,718</b>  | <b>947,240</b>    | <b>1,262,407</b>  |
| *Calgary.....                  | 11,417,144         | 4,054,364          | 1,944,039          | 917,868           | 449,917           | 687,094           |
| *Edmonton.....                 | 5,670,185          | 4,300,935          | 1,377,175          | 1,093,045         | 428,565           | 479,108           |
| Lethbridge.....                | 559,392            | 984,830            | 1,294,056          | 192,150           | 54,398            | 70,110            |
| Medicine Hat.....              | 306,600            | 120,705            | 115,195            | 40,655            | 14,360            | 26,095            |
| <b>British Columbia</b> .....  | <b>27,187,087</b>  | <b>17,718,514</b>  | <b>11,812,866</b>  | <b>3,618,980</b>  | <b>2,160,553</b>  | <b>2,093,590</b>  |
| Kamloops.....                  | 241,247            | 205,235            | 133,642            | 49,435            | 50,517            | 34,201            |
| Nanaimo.....                   | 112,640            | 117,053            | 45,350             | 56,269            | 33,356            | 49,841            |
| *New Westminster.....          | 1,011,629          | 553,990            | 580,321            | 137,712           | 114,880           | 77,695            |
| Prince Rupert.....             | 93,648             | 148,695            | 156,493            | 54,230            | 29,327            | 66,420            |
| *Vancouver.....                | 21,572,727         | 14,645,206         | 10,066,425         | 2,854,206         | 1,564,541         | 1,418,816         |
| North Vancouver.....           | 292,515            | 150,073            | 90,062             | 77,455            | 27,796            | 14,505            |
| *Victoria.....                 | 3,862,681          | 1,898,262          | 736,610            | 389,673           | 340,136           | 432,112           |
| <b>Totals—61 Cities</b> .....  | <b>234,944,549</b> | <b>166,379,325</b> | <b>112,222,845</b> | <b>42,319,397</b> | <b>21,776,496</b> | <b>27,457,524</b> |
| <b>*Totals—35 Cities</b> ..... | <b>211,228,814</b> | <b>151,324,214</b> | <b>101,647,955</b> | <b>38,370,313</b> | <b>19,883,793</b> | <b>24,696,180</b> |

**4.—Values of Building Permits Issued by 35 Cities in the calendar years 1910-34 and Index Numbers of the Construction Industries.**

| Year.     | Value.      | Average Index Numbers of—               |                               |                                                                     |
|-----------|-------------|-----------------------------------------|-------------------------------|---------------------------------------------------------------------|
|           |             | Wholesale Prices of Building Materials. | Wages in the Building Trades. | Employment as Reported by Employers in the Construction Industries. |
|           | \$          | (1913=100.)                             |                               | (1926=100.)                                                         |
| 1910..... | 100,357,546 | —                                       | 86.9                          | —                                                                   |
| 1911..... | 138,170,390 | —                                       | 90.2                          | —                                                                   |
| 1912..... | 185,233,449 | —                                       | 96.0                          | —                                                                   |
| 1913..... | 153,662,842 | 100.0                                   | 100.0                         | —                                                                   |
| 1914..... | 96,780,981  | 83.8                                    | 100.8                         | —                                                                   |
| 1915..... | 33,566,749  | 90.3                                    | 101.5                         | —                                                                   |
| 1916..... | 39,724,466  | 103.8                                   | 102.4                         | —                                                                   |
| 1917..... | 33,936,426  | 130.7                                   | 109.9                         | —                                                                   |
| 1918..... | 36,838,270  | 150.5                                   | 125.9                         | —                                                                   |
| 1919..... | 77,113,413  | 175.0                                   | 148.2                         | —                                                                   |
| 1920..... | 100,679,839 | 214.9                                   | 180.9                         | —                                                                   |
| 1921..... | 94,508,164  | 183.2                                   | 170.5                         | 71.1                                                                |
| 1922..... | 122,655,581 | 162.2                                   | 162.5                         | 76.7                                                                |
| 1923..... | 111,174,325 | 167.0                                   | 166.4                         | 80.9                                                                |
| 1924..... | 105,070,284 | 159.1                                   | 169.1                         | 80.3                                                                |
| 1925..... | 101,021,798 | 153.5                                   | 170.4                         | 84.9                                                                |
| 1926..... | 131,048,721 | 149.2                                   | 172.1                         | 100.0                                                               |
| 1927..... | 154,904,047 | 143.4                                   | 179.3                         | 109.0                                                               |
| 1928..... | 187,269,237 | 145.3                                   | 185.6                         | 118.8                                                               |
| 1929..... | 211,228,814 | 147.7                                   | 197.5                         | 129.7                                                               |
| 1930..... | 151,324,214 | 135.5                                   | 203.2                         | 129.8                                                               |
| 1931..... | 101,647,955 | 122.2                                   | 195.7                         | 131.4                                                               |
| 1932..... | 38,370,313  | 115.2                                   | 178.2                         | 86.0                                                                |
| 1933..... | 19,833,793  | 116.8                                   | 158.0                         | 74.6                                                                |
| 1934..... | 24,696,180  | 123.1                                   | 154.8                         | 109.3                                                               |

The index numbers of wages and wholesale prices of materials in Table 4 show the fluctuations in building costs over the period 1910-34. During 1934 the wages index declined by 2 p.c. as compared with 1933, but there was a moderate increase in the index of wholesale costs of building materials. As already stated on p. 514, the general decline in the cost of building in the past few years has probably been much more than is indicated by these index numbers.

The increase in the volume of employment afforded in the construction industries during 1934, as compared with 1932 and 1933, is mainly due to the important program of public works undertaken as an unemployment relief measure, although there was also greater activity in general building work, as reflected in the higher value of contracts awarded and of building permits issued.



## CHAPTER XVI.—EXTERNAL TRADE.

This chapter commences with a historical sketch of Canadian external trade, the Canadian tariff, and recent developments in external trade, followed by a brief account of the Commercial Intelligence Service. Thereafter is to be found a treatment of statistics of external trade under ten subordinate headings: historical statistics of Canadian trade; general analysis of current import and export trade; trade with the United Kingdom and the British Empire; trade with the United States and other foreign countries; geographical distribution of Canadian trade by continents and countries; principal commodities imported and exported; trade in raw and manufactured products; Canada's position in international trade; main historical tables and tables showing current trends (Tables 1 to 21); and comparison of the volumes of imports and exports (Table 22). The chapter is finally brought to a close with sections on the tourist trade of Canada, and on Canada's balance of international payments in recent years.

### Section 1.—The Development of Tariffs.

An outline of the development of tariffs as affecting Canada naturally falls into two divisions: first, a historical sketch showing the various phases of Canadian trade which have influenced tariff development; and second, the present tariff conditions under which Canadian trade is carried on.

#### Subsection 1.—Historical Sketch of External Trade and Tariffs.

In the early history of the American continent each of the European nations establishing settlements in the New World endeavoured to monopolize the commerce of its colonies, prohibited the ships of other nations from resorting to them and prohibited its colonials from importing European goods from other countries, generally granting them, however, preferential treatment in its own market. In these circumstances the colonial wars in America were carried on, by Governments permeated by the mercantile spirit, for "ships, colonies and commerce". Owing to this fact, wars resulting in the transfer of colonies from one European power to another involved great economic as well as political changes in the community so transferred. The traders who had previously controlled the trade between the mother country and its colony found their occupations gone, while new traders from the conquering State arrived to take over the import and export trade, which thereafter flowed in new channels, perhaps no more artificial than those which had previously existed.

Throughout the earlier part of the French *régime* in Canada, the foreign trade of the colony was in the hands of the monopolistic chartered companies, of which the Company of One Hundred Associates was the most notable. When its monopoly was cancelled in 1663, the external trade of Canada still remained a preserve of the merchants of Old France. Upon the conquest of the country by the British, the French merchants, who had their offices in Quebec and Montreal, for the most part returned to France, and the trade of the Colony fell into the hands of the traders from England, Scotland and New England, who had flocked into the country on the heels of the invading armies. Some of their descendants are still among the leading figures in Canadian import and export trade.

For the first sixty years of British rule, Canadian commerce was carried on almost exclusively with or through the United Kingdom, the merchants of New

England complaining, after the American Revolution, of being shut out from the Canadian trade. The geographical juxtaposition of the United States to British North America was, however, a factor which could not permanently be ignored, and smuggling became more and more prevalent as settlement extended westward along the International Boundary. In 1822 the United Kingdom made large concessions to United States traders in respect of the Canadian trade. In 1846 she abolished the preferential treatment which she had given to Canadian wheat, and in 1860 all vestige of preference to colonial products disappeared from the British tariff. As a consequence, the colonies which, like Canada, Nova Scotia and New Brunswick, were by this time enjoying responsible government, could not any longer be refused the right to control their own commercial policy—a fact which was emphasized in an important report prepared in 1859 by the then Minister of Finance, (Sir) A. T. Galt, and forwarded to the British Government. This report declared that the responsibility of the Canadian Government must be to the Canadian people, more especially in matters of taxation (the greater part of the revenue being raised by customs duties), and that the Canadian Government must affirm the right of the Canadian Parliament to adjust the taxation of the people in the way it deemed best, even if this should happen to meet with the disapproval of the British Ministry. This doctrine remained unchallenged by the British Government and, coming at a time when all important parties in Great Britain had accepted free trade as a *fait accompli*, it facilitated the setting up in Canada of a protective tariff, designed to secure the establishment in Canada of manufacturing industries, at a time when British opinion desired that the colonies should concentrate their attention on the production of food and raw materials and import from the United Kingdom the manufactured commodities which they required.

**The Abolition of Preference and the Reciprocity Treaty of 1854.**—The abolition of the British preference on Canadian wheat in 1846 brought about a depression in the flour-milling industry of Montreal and an ephemeral agitation for union with the United States. The effects of the repeal of the preference were, however, mitigated in 1849 by the repeal of the Navigation Acts and the consequent opening of the carrying trade between Canada and the United Kingdom to the shipping of the world. Meanwhile, the abandonment of protection in the Mother Country led to the initiation of negotiations for a reciprocity treaty with the United States. A treaty for the free exchange of natural products between them and the British North American colonies was negotiated in 1854, and became effective on Mar. 16, 1855. From its operation the Canadian farmer and fisherman derived considerable benefit, more especially during the period of the Civil War, when prices in the United States were particularly high. Partly as a consequence of the friction between the United Kingdom and the United States during the Civil War period and partly because the new Canadian tariff of 1859 shut out the manufactured goods of the United States, the treaty was denounced by the United States at the end of the ten-year period for which it had been negotiated and ceased to operate 12 months later on Mar. 17, 1866. The denunciation of the treaty had a considerable effect in bringing about the confederation of the British North American colonies, which it was hoped would to a great extent consume each other's products.

**Tariff Policy since Confederation.**—The immediate effect of Confederation was to abolish the tariff barriers which existed between the provinces entering the Dominion. As the area of Canada increased until, except for Newfoundland and Labrador, it became conterminous with British North America, the area of internal

free trade was thereby extended, while protection against outside competition was generally maintained. However, the protective tariff of the old province of Canada, adopted in 1859 with a prevailing rate of 20 p.c., was replaced in 1866 by a tariff assimilated to the revenue tariffs of the Maritime Provinces, with the rates of duties on the great bulk of manufactured commodities reduced from 20 and 25 p.c. to 15 p.c. Later on, the world-wide depression which commenced in 1873, and the consequent falling-off in a revenue based upon trade, necessitated an increase of the general rate to  $17\frac{1}{2}$  p.c., with a 20 p.c. rate on certain luxuries. Even this increase failed to fill the treasury.

In 1879, after the people had declared for a protective policy in the general election of 1878, the duties on imported manufactured goods were considerably increased, the rate on goods "not otherwise provided" being raised from  $17\frac{1}{2}$  p.c. to 20 p.c., the rates on cotton goods from  $17\frac{1}{2}$  p.c. to rates, specific and *ad valorem*, equivalent, on the importations of 1881, to 30 p.c., while the duties on woollens were practically doubled. The rate on furniture and clocks was increased to 35 p.c.; on carriages, glassware, wall-paper and silks, to 30 p.c.; on boots and shoes, buttons, rubber goods and woodenware, to 25 p.c. Pig iron, previously free, now paid \$2 a ton, and the duty on iron billets, bars and rods was increased from 5 p.c. to 10 and  $17\frac{1}{2}$  p.c., while manufactured iron and steel products and machinery were given 25 to 35 p.c. protection. Throughout the '80's the general trend of the minor revisions made in the tariff was still upwards but in the '90's a downward tendency became manifest. In 1891 the duty on raw sugar was repealed, and in 1894 material reductions were made on agricultural implements and minor readjustments on cottons and woollens. This period was also marked by the thorough-going extension of protection to the iron and steel industry, both by customs duties and bounties.

In the tariff revision of 1897, the duties on Indian corn, binder twine, barbed wire, pig iron, flour and refined sugar were reduced or abolished, while the bounties on domestic pig iron were not reduced but in certain cases increased. But the most distinctive feature of the tariff revision of 1897 was the adoption of what was called a "reciprocal" tariff, one-eighth lower than the general. This "reciprocal" tariff was at once applied to the United Kingdom, and afterwards to New South Wales and to British India, while Belgium and Germany, in virtue of their trade treaties with the United Kingdom, were also admitted to the benefits of the "reciprocal" tariff, together with Argentina, Austria-Hungary, Bolivia, Colombia, Denmark, Persia, Russia, Sweden, Switzerland, Tunis and Venezuela, on account of most-favoured-nation treaties between these countries and the United Kingdom, also France and her colonies, in consequence of the Franco-Canadian treaty of 1893. A little later the "reciprocal" tariff was also extended to the Netherlands, Japan, Siberia, Morocco, Salvador, South African Republic, Tonga and Spain, under most-favoured-nation treaties between these countries and the United Kingdom.

The numerous concessions mentioned above were, however, of a merely temporary character, ceasing to exist in 1898 as a consequence of the denunciation by the United Kingdom of her most-favoured-nation treaties with Germany and Belgium. This left Canada free to confine her lower tariff rates to the United Kingdom and to sister Dominions and colonies. A British preferential tariff, consisting at first of a remission of 25 p.c. of the duty ordinarily paid (Aug. 1, 1898), and later of a remission of  $33\frac{1}{3}$  p.c. of the ordinary rate of duty (July 1, 1900), was established. This method of preference was abandoned in 1904 for a specially low rate of duty on almost all imported dutiable commodities.



**Subsection 2.—Preferential Tariff and Trade Treaties.\***

**Tariff of 1907 and Empire Preferences.**—A new Canadian Customs Tariff was adopted on April 12, 1907, containing three columns of duties, British preferential, intermediate and general. This tariff with amendments is still in operation. The Tariff Act itself mentions, as being entitled to the British preference, those parts of the Empire which were already enjoying it under previous measures, namely: United Kingdom, British India, Ceylon, New Zealand, Union of South Africa, Southern Rhodesia, Bermuda, British West Indies, British Guiana and Straits Settlements. Power was taken to extend the same advantages, by Order in Council, to other parts of the Empire. Under this authority the British preference was, on Jan. 25, 1913, granted to: Swaziland, Basutoland, Bechuanaland Protectorate, Northern Rhodesia, Nyasaland Protectorate, Uganda Protectorate, East Africa Protectorate, Protectorate of Northern Nigeria, Colony and Protectorate of Southern Nigeria, Gold Coast, Sierra Leone, Gambia, Somaliland Protectorate, Federated Malay States, British North Borneo, Sarawak, Brunei, Mauritius and Dependencies thereof, Seychelles, St. Helena, Ascension, Friendly or Tonga Islands, Fiji, Falkland Islands and British Honduras. Further extensions were to: Irish Free State, Sept. 21, 1923; Territory of Western Samoa, Oct. 1, 1924; Newfoundland, June 26, 1928; Tanganyika Territory, Dec. 19, 1930; Channel Islands, Isle of Man, Kenya Colony and Protectorate (formerly East Africa Protectorate), Colony and Protectorate of Nigeria, (formerly Protectorate of Northern Nigeria and Colony and Protectorate of Southern Nigeria), British Sphere of the Cameroons, British Sphere of Togoland, part of New Guinea under mandate of Australia, and Cyprus, all on Sept. 24, 1931; Unfederated Malay States, June 28, 1933; Cayman Islands, July 27, 1933; Australia, July 7, 1934 (on all products except butter, raisins, dried currants, wheat and wheat flour).

**Trade Agreements with Australia.**—A formal Trade Agreement between Canada and Australia (superseding an arrangement of 1925, exchanging limited preferences by legislation) was brought into force on Aug. 3, 1931, providing for exchange of British preferential rates, except as set forth in two schedules—one of which concedes special Canadian rates on some Australian products, while the other specifies the tariff treatment given by Australia to Canada on certain items, as well as enumerating items which Australia reserves as regards granting preferential treatment. Canada is accorded the British preferential tariff of Australia on all but 18 of the 439 items comprising the entire tariff. On six items intermediate rates apply and on the other twelve, the general tariff. An important concession to Canada is the creation of new or larger margins of preference than existed in the former tariff on some products of importance to Canada. Other general provisions waive anti-dumping laws, and permit either country to apply its general tariff rates to imports from the other which are injuriously affecting the sale of similar domestic goods, provided that, after three months notice, the exporting country has failed to remedy the situation.

**Trade Agreements with British West Indies.**—To the British West Indies concessions independent of the British preference were made in an Agreement of 1912, which obtained West Indian preferential rates of four-fifths of the general tariff on some Canadian goods. In 1920 a second Trade Agreement, broader both as to the extent of the preferences exchanged and the number of West Indian signatories, superseded the first. This in turn was replaced on July 6, 1925, by one

\* Revised by W. Gilchrist, Chief, Foreign Tariffs Division, Department of Trade and Commerce.



still more extensive, brought formally into force by proclamation as from April 30, 1927. It is binding for a 12-year period and thereafter until terminated on a years notice. It includes: Jamaica, Trinidad, Barbados, Bahamas, Leeward Islands, Windward Islands, Bermuda, British Guiana and British Honduras. The larger colonies give a preference of 2s. per brl. on flour, and various stated amounts on some other commodities of importance. The preference on manufactured goods in general, when not specially dealt with, ranges from 20 p.c. to 50 p.c. of the general tariff. In return Canada grants the colonies: (a) specific amounts of preference on sugar and some other selected tropical products; (b) a 50 p.c. reduction from the general tariff on goods for which no special provision is made.

**Trade Agreement with New Zealand.**—Imports from New Zealand have been accorded British preferential rates since 1904. Furthermore, on Oct. 1, 1925, the special rates of the Trade Agreement with Australia were extended to New Zealand. Canada was granted the British preferential rates of New Zealand established in 1903. However, from Oct. 12, 1930, after due notice, Canada withdrew the Australian treaty rates as regards imports from New Zealand, and on June 2, 1931, New Zealand withdrew her British preferential rates from all but a few items of Canadian goods. After negotiations a new Trade Agreement with New Zealand was brought into force for one year by proclamation as from May 24, 1932. On May 24, 1933, the Agreement was extended for six months; on Nov. 24, 1933, for another six months; and on May 24, 1934, for a further 12 months. By this Agreement Canada grants New Zealand rates lower than British preferential on various articles of outstanding interest to her, and otherwise extends to her the British preferential tariff. New Zealand restores the British preferential rates to Canada except on six items on which, however, she concedes rates lower than the general tariff. On lumber, laths, and shingles, where no preference existed previously, because the general and preferential rates were the same, New Zealand creates a differential between her British preferential and general tariffs, so as to afford Canada a tariff preference on such products. Under a general provision of the Agreement anti-dumping laws of both countries are suspended except in the case of imports injurious to domestic industry when the exporting country does not apply remedial measures after 30 days notice. Other general provisions extend the Agreement to Western Samoa and Cook Islands.

**Preferences by The United Kingdom Prior to the Imperial Conference, 1932.**—The United Kingdom, between 1919 and 1931, granted preferences to Empire products within the limited scope of her tariff of that time. By 1931 there were preferences on: motor cars, clocks and watches, musical instruments, cinematograph films, all known as "McKenna duties"; sugar, goods containing sugar, glucose, tobaccos, certain dried fruits, chicory, cocoa, coffee, hops, spirits, wines, silk and artificial silk goods; pottery, buttons, household hollow-ware (safeguarding duties); and on "key industry goods" mainly certain chemicals, optical instruments, arc lamp carbons, vacuum tubes, metallic tungsten, some scientific instruments and scientific glassware. In consequence of the Abnormal Importations (Customs Duties) Act, passed Nov. 20, 1931, to remain in effect for six months, giving authority for Orders in Council imposing duties, not to exceed 100 p.c. *ad valorem*, on foreign manufactured goods, some 50 items were subjected to 50 p.c. *ad valorem*. The Horticultural Products (Emergency Customs Duties) Act, passed Dec. 11, 1931, to remain in force for twelve months, gave the Government power to impose duties by Orders in Council up to 100 p.c. *ad valorem* on certain fresh fruit, fresh vegetables and

plants of non-Empire origin. Five Orders were passed under this Act. The Import Duties Act effective Mar. 1, 1932, imposed a duty of 10 p.c. *ad valorem* on goods which were not otherwise subject to duty except for some exemptions including wheat and maize (afterwards made dutiable), meats (not including canned), live animals, raw cotton, flax and hemp, wool, hides and skins, newsprint, pulp, wooden pit-props, metallic ores, coal and certain other minerals, unwrought copper and all goods imported for shipbuilding. Products of the Dominions, India, and Southern Rhodesia were exempt from this duty until Nov. 15, 1932, their treatment after that date to depend on the Imperial Conference. Products of other parts of the British Empire were exempt from the 10 p.c. duty without limitation as to date. By an Order effective April 26, 1932, the 10 p.c. general tariff was increased to rates ranging from 15 to 33½ p.c. *ad valorem*, on a wide range of merchandise, chiefly manufactured goods. Over 100 subsequent orders have been issued either increasing rates on particular commodities or exempting articles from duty.

**The Imperial Economic Conference, 1932.**—*The United Kingdom-Canada Agreement.*—Under this Agreement the United Kingdom, while continuing to grant to products of Canada those preferences and exemptions from duty established by the Import Duties Act cited above, provided, for important Canadian products, additional preferences by the imposition of new or increased duties on competing foreign imports. Chief among these products were: eggs, butter, cheese, condensed milk, wheat, fresh and canned apples, and unwrought copper. The continuation of a 10 p.c. preference was guaranteed on dutiable timber, fresh and canned fish, asbestos, lead and zinc. Canada was granted unrestricted entry for a maximum quota of 2,500,000 cwt. per annum of bacon and hams, and for 10 years a margin of preference of 2s. ½d. per lb. on unmanufactured tobacco. Certain preferences accorded in United Kingdom Agreements with other Dominions apply automatically to Canada as an Empire country. As regards eggs, poultry, butter, cheese and other milk products, free entry is guaranteed for three years, after which the position as regards these articles is subject to review. Increased preferences to Canada in many of the non-self-governing Colonies and Protectorates were provided for on selected articles. The British reserved the right to remove duties on foreign wheat, copper, lead and zinc if at any time Empire producers were unwilling or unable to provide, at world prices, the United Kingdom requirements. In return Canada agreed to widen the margin of preference on imports from the United Kingdom on a great variety of goods as set forth in a schedule attached to the Agreement. Actual changes were made in 225 Canadian tariff items, on 223 of which the margin of the British preference was increased. The tariff was lowered on 133 items, more than half of which were placed on the free list, in the other cases the margin was increased by raising the intermediate and general tariffs. By major groups, the tariff changes mainly concerned iron and steel, drugs and chemicals, textiles, leather goods, glass, vegetable oils, as well as a wide list of miscellaneous commodities. Generally speaking manufactured goods of a class or kind not produced in Canada were made free. Additional preferences were also provided for imports into Canada of various commodities produced largely in the non-self-governing Colonies and Protectorates. Canada agreed that the tariff should be based on the principle that protective duties should not exceed such a level as would give United Kingdom producers full opportunity of reasonable competition in Canada on the basis of the relative cost of economic and efficient production with special consideration to be given to industries not fully established. Canada undertook to institute the Tariff Board, already

authorized by Statute, to review duties on United Kingdom goods in accordance with these principles and not to increase these duties except in accordance with the Board's findings. Canada further agreed to abolish surcharges on imports from the United Kingdom as soon as Canada's finances would allow and to give sympathetic consideration to the abolition of the exchange dumping duty on British goods. (By an amendment to the special War Revenue Act, Canada on June 28, 1934, reduced an Excise Tax of 3 p.c. levied on duty-paid value to  $1\frac{1}{2}$  p.c. as regards goods entered under the British preferential tariff or trade agreements with a British country.) The Agreement was to continue for 5 years and be subject thereafter to termination upon 6 months notice by either party.

*Other Agreements.*—The Agreement between Canada and the Union of South Africa places commercial relations between these two Dominions on a treaty basis for the first time. It covers the principal commodities which each Dominion can sell to the other, but is more limited in scope than the trade Agreements concluded earlier with Australia and New Zealand. A considerable extension of the preferred list of commodities has been obtained for Canada. Special consideration has been given to corn from South Africa, although fruits in certain seasons, peanuts, sugar and molasses are also given consideration. Wheat, flour, apples, hoisery, binder twine, machinery, vacuum cleaners, iron pipes, tools, shooks, lumber, canned fish, motor cars, electrical appliances, rubber goods and paper products are the chief items on which concessions are made to Canada.

The Agreement with the Irish Free State secured for all goods the produce and manufacture of Canada imported into the Irish Free State the benefits of the lowest rates of duty accorded to similar products of any country. In return, goods the produce of the Irish Free State, when imported into Canada, were to be accorded the same tariff treatment as similar goods imported from the United Kingdom.

The Agreement with Southern Rhodesia made provision for the exchange of preferential treatment on selected lists of commodities. In addition, other goods not enumerated in the schedules continue to enjoy the benefits of existing and future British preferences. Indian corn, citrous fruits and peanuts are given free entry by Canada, whereas Southern Rhodesia gives our manufacturers important concessions on cream separators, batteries, boots and shoes, and paper products.

**Other Empire Preferences on Canadian Goods.**—Even in the absence of trade agreements many tariff preferences are accorded to Canadian goods throughout the Empire. The general position now is that nearly all goods, the produce or manufacture of Canada, shipped in accordance with prescribed regulations, are granted tariff preferences over non-Empire goods in Great Britain and Northern Ireland, Australia, New Zealand, Fiji, Western Samoa, British West Indies (thirteen tariffs), Bermuda, British Guiana, British Honduras, Southern Rhodesia, Northern Rhodesia (Zambesi Basin), Gambia, Sierra Leone, Seychelles, British Somaliland, Cyprus, and Isle of Man. To a considerable extent tariff preference is similarly granted to Canadian goods in the Irish Free State, the Union of South Africa, Ceylon, Mauritius, St. Helena, British Protectorate of Tonga, British Solomon islands, Gilbert and Ellice Islands, and Malta, also on some goods in the Federated Malay States, the Unfederated Malay States, British North Borneo, Sarawak, and Brunei. Empire motor cars enjoy preference in Hong Kong, the Straits Settlements, and Guernsey; spirits and malt liquors in Gibraltar; and wines in the Falkland Islands.



**Canadian Tariff Arrangements with Foreign Countries.**—Arising out of some old British treaties, later British treaties or favoured-nation clauses sanctioned by Canadian Acts of Parliament, or in consequence of purely Canadian conventions of commerce, Canada extends, on a reciprocal basis, most-favoured-nation customs treatment, except where otherwise indicated, to the goods of the following countries:—

| Country.                                                                          | Treaty or Convention.                                                                                                                                                                                                                              | Terms.                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Argentine Republic.....                                                           | Treaty of Amity, Commerce and Navigation with the United Kingdom of Feb. 2, 1825.....                                                                                                                                                              | Exchange of most-favoured-nation treatment.                                                                                                                                                                          |
| Austria.....                                                                      | Exchange of Notes. Canadian Orders in Council of July 5, 1933, Dec. 29, 1933, and Jan. 14, 1935, latter for an indefinite period subject to termination on three months' notice.....                                                               | Canadian intermediate tariff exchanged for most-favoured-nation treatment in Austria.                                                                                                                                |
| Belgium and Luxembourg, Belgian colonies, possessions and mandated territory..... | Convention of Commerce with Canada of July 3, 1924.....                                                                                                                                                                                            | Exchange of most-favoured-nation treatment.                                                                                                                                                                          |
| Brazil.....                                                                       | Exchange of Notes of Dec. 4, 1931.....                                                                                                                                                                                                             | Canadian intermediate tariff exchange for most-favoured-nation treatment in Brazil.                                                                                                                                  |
| Colombia.....                                                                     | Treaty of Friendship, Commerce and Navigation with the United Kingdom of Feb. 16, 1866.....                                                                                                                                                        | Exchange of most-favoured-nation treatment.                                                                                                                                                                          |
| Czechoslovakia.....                                                               | Convention of Commerce with Canada of Mar. 15, 1928.....                                                                                                                                                                                           | Exchange of most-favoured-nation treatment.                                                                                                                                                                          |
| Denmark.....                                                                      | Treaties of Peace and Commerce with Great Britain of Feb. 13, 1660-1 and July 11, 1670.....                                                                                                                                                        | Exchange of most-favoured-nation treatment.                                                                                                                                                                          |
| Estonia.....                                                                      | Canadian Trade Agreements Act of June 11, 1928, accepted Article 28 of United Kingdom-Estonia Treaty of Commerce and Navigation of Jan. 18, 1926.....                                                                                              | Exchange of most-favoured-nation treatment.                                                                                                                                                                          |
| Finland.....                                                                      | Finland Trade Agreement Act of June 12, 1925, accepted Article 23 of United Kingdom-Finland Treaty of Commerce and Navigation of Dec. 14, 1923.....                                                                                                | Exchange of most-favoured-nation treatment.                                                                                                                                                                          |
| France and French Colonies                                                        | Trade Agreement with Canada, signed May 12, 1933, in force June 10, 1933. Exchange of Notes, Sept. 29, 1934, extending concessions on both sides.....                                                                                              | As regards scheduled goods percentage reductions from Canadian intermediate tariff or actual intermediate exchanged for French minimum tariff or percentage reductions from general tariff, also quota arrangements. |
| Germany.....                                                                      | Exchange of Notes. Canadian Orders in Council, Dec. 23, 1932; Mar. 31, 1933; Dec. 23, 1933, latter for an indefinite period subject to termination any time on condition that benefits of Agreement continue for six weeks after notice given..... | Canadian intermediate tariff exchanged for most-favoured-nation treatment in Germany.                                                                                                                                |
| Hungary.....                                                                      | Canadian Trade Agreements Act of June 11, 1928, accepted Article 20 of United Kingdom-Hungary Treaty of Commerce and Navigation of July 23, 1926.....                                                                                              | Exchange of most-favoured-nation treatment.                                                                                                                                                                          |
| Italy, colonies and possessions.....                                              | Convention of Commerce with Canada of Jan. 4, 1923.....                                                                                                                                                                                            | Exchange of most-favoured-nation treatment.                                                                                                                                                                          |
| Japan.....                                                                        | Japanese Treaty Act of April 10, 1913, sanctioned (with provisos) United Kingdom-Japan Treaty of Commerce and Navigation of April 3, 1911.....                                                                                                     | Exchange of most-favoured-nation treatment.                                                                                                                                                                          |
| Latvia.....                                                                       | Canadian Trade Agreements Act of June 11, 1928, accepted Article 26 of the United Kingdom-Latvia Treaty of Commerce and Navigation of June 22, 1923.....                                                                                           | Exchange of most-favoured-nation treatment.                                                                                                                                                                          |
| Lithuania.....                                                                    | Canadian Trade Agreements Act of June 11, 1928, accepted Article 4 of the United Kingdom-Lithuania Agreement respecting commercial relations of May 6, 1922.....                                                                                   | Exchange of most-favoured-nation treatment.                                                                                                                                                                          |
| Netherlands, Netherlands Indies, Surinam and Curaçao.....                         | Convention of Commerce with Canada of July 11, 1924.....                                                                                                                                                                                           | Exchange of most-favoured-nation treatment.                                                                                                                                                                          |
| Norway.....                                                                       | Convention of Commerce and Navigation between the United Kingdom and (Sweden and) Norway of Mar. 18, 1826.....                                                                                                                                     | Exchange of most-favoured-nation treatment.                                                                                                                                                                          |



| Country.                                                  | Treaty or Convention.                                                                                                                                                                                                                         | Terms.                                      |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Portugal, including Madeira, Porto Santo, and Azores..... | Canadian Trade Agreements Act of June 11, 1928, accepted Article 21 of the United Kingdom-Portugal Treaty of Commerce and Navigation of Aug. 12, 1914.....                                                                                    | Exchange of most-favoured-nation treatment. |
| Roumania.....                                             | Exchange of Notes of Sept. 30, 1930, under Article 36, Treaty of Commerce and Navigation between United Kingdom and Roumania of Aug. 6, 1930.....                                                                                             | Exchange of most-favoured-nation treatment. |
| Serb-Croat-Slovene Kingdom (Yugoslavia).....              | Canadian Trade Agreements Act of June 11, 1928, accepted Article 30 of United Kingdom-Serb-Croat-Slovene Kingdom Treaty of Commerce and Navigation of May 12, 1927.....                                                                       | Exchange of most-favoured-nation treatment. |
| Spain.....                                                | Spanish Treaty Act of June 11, 1928, sanctioned United Kingdom-Spain Treaty of Commerce and Navigation of Oct. 31, 1922 (revised April 5, 1927), also United Kingdom-Spain Agreement of June 27, 1924, regulating treatment of companies..... | Exchange of most-favoured-nation treatment. |
| Sweden.....                                               | Convention of Commerce and Navigation between the United Kingdom and Sweden (and Norway) of Mar. 18, 1926.                                                                                                                                    | Exchange of most-favoured-nation treatment. |
| Switzerland.....                                          | Treaty of Friendship, Commerce and Reciprocal Establishment between the United Kingdom and Switzerland of Sept. 6, 1855.....                                                                                                                  | Exchange of most-favoured-nation treatment. |
| Venezuela.....                                            | Treaty of Amity, Commerce and Navigation between the United Kingdom and Colombia (of which Venezuela was then part) of April 18, 1825.....                                                                                                    | Exchange of most-favoured-nation treatment. |

Under mutual most-favoured-nation customs treatment each contracting country accords to the goods of the other the lowest duties applied to similar products of any foreign origin, unless there are reservations. These reservations would be tariff concessions, not considered of relatively great importance, which one country may grant to another on historical, geographical, or some related ground. Most-favoured-nation obligations do not include Canadian preferences given to other parts of the Empire. Canada's concessions to France in the Convention of Commerce of 1922 established the rates applicable to most-favoured foreign nations. This Convention expired on June 16, 1932. A new Trade Agreement between Canada and France, signed on May 12, 1933, went into force on June 10, 1933, and was followed by an Exchange of Notes on Sept. 29, 1934, extending concessions on both sides. Benefits to most-favoured nations under the Canadian tariff now consist of the rates of the intermediate tariff because they are granted by Agreements to Brazil, Germany and Austria, and in addition any rates lower than intermediate existing in the Trade Agreement between Canada and France.

The value to Canada of most-favoured-nation treatment in foreign countries depends on the customs system of the country concerned. Several countries have maximum and minimum schedules, meaning that there are reduced duties for practically all goods imported from reciprocating or treaty countries. Some countries, on account of rates conceded in treaties, maintain reduced duties on specified items of their tariffs. Many countries throughout the world have uniform tariffs regardless of the origin of the goods. The benefit of most-favoured-nation treatment depends also on the extent to which tariff favours apply to countries competing with Canada in the market in question.

*Powers of the Governor in Council.*—The Governor in Council may make reductions of duties on goods imported into Canada from countries granting reductions on Canadian products.

The Governor in Council is given power to prohibit the importation of any goods exported directly or indirectly from any country not a contracting party to the Treaty of Versailles executed at Paris, France, on June 28, 1919.

In the event of producers of goods taking advantage of any duty under the provisions of the customs tariff, the Governor in Council is empowered to reduce or remove such duty and, where a producer violates the provisions of Sec. 17, to impose upon all his products an excise duty equivalent to the amount of customs duty which would be paid by such goods if imported under the provisions of the general tariff. These provisions, however, do not apply to agricultural products.

*Combination.*—Whenever it is deemed in the public interest to inquire into any combination alleged to exist detrimental to consumers, the Governor in Council may commission or empower any judge of the Supreme Court or of the Exchequer Court of Canada, or of any superior court or county court in Canada, to hold an inquiry in a summary way and to report to the Governor in Council whether such combination exists, the judge being empowered to compel attendance of witnesses, examine them under oath, and require production of books and papers, etc., and, upon the judge reporting the existence of such a combination, the Governor in Council is given authority to admit the article concerned free of duty, or so reduce the duty thereon as to give the public the benefit of reasonable competition if it appears that the disadvantage to the consumer is facilitated by the duties of customs imposed on a like article.

## Section 2.—The Commercial Intelligence Service.\*

The Commercial Intelligence Service, maintained by the Department of Trade and Commerce, is designed to further the interests of Canadian trade in other parts of the Empire and in foreign countries. To this end there are established throughout the world offices administered by Trade Commissioners. These Trade Commissioners make periodical reports upon trade and financial conditions, variations in markets and the current demand or opportunities for Canadian products. They also secure and forward to the Department in Ottawa specific inquiries for Canadian goods and in general exert their best efforts for the development and expansion of overseas markets.

*Organization at Ottawa.*—Besides the overseas organization of the Commercial Intelligence Service, there is a headquarters staff at Ottawa. This is presided over by a Director, who is the head of the Service and administers and unifies the work assigned to the various Trade Commissioners. Assisting the Director are the following divisions: Trade Inquiries—where inquiries for Canadian products, forwarded by the Trade Commissioners, are prepared for publication and distribution, and the Exporters Directory listing Canadian exporters with their agents abroad, commodities handled, ratings, cables and codes used, etc., and the Foreign Importers Directory are kept up to date; Editorial—where the Commercial Intelligence Journal is compiled; Commodity Records—where information regarding markets for Canadian export commodities is indexed; Economics; Animal Products; Wood and Vegetable Products; Minerals, Metals and Chemicals; and Fish Products and Miscellaneous Manufactures. These last five divisions handle correspondence falling within their respective classifications.

\* Revised by L. D. Wilgress, Director, Commercial Intelligence Service, Department of Trade and Commerce.

Also, in order to keep abreast of Canadian industrial development, each Trade Commissioner makes a periodic tour of Canada and while in this country gives first-hand information to the Canadian manufacturer regarding opportunities and conditions of trade in his territory.

**Organization Abroad.**—A list of the countries in which Canadian Trade Commissioners are located, showing territory covered, name, post office and cable address of the Trade Commissioner in each case, is given below:—

## CANADIAN GOVERNMENT TRADE COMMISSIONERS.

NOTE.—This list revised as at Jan. 1, 1935. Cable address of Trade Commissioners is "Canadian" unless otherwise stated.

|                                                                                                                                                                |                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Argentine Republic</i> (Territory includes Uruguay).....                                                                                                    | H. A. Scott, B. Mitre 430, Buenos Aires (1).                                                                                                                            |
| <i>Australia</i> .....                                                                                                                                         | L. M. Cosgrave. Address for letters—Box 196c, G.P.O. Melbourne. Office—Safe Deposit Building, Melbourne. Commercial Agent—B. Millin, The Royal Exchange, Sydney, N.S.W. |
| <i>Belgium</i> .....                                                                                                                                           | Henri Turcot, 98 Boulevard Adolphe Max, Brussels.                                                                                                                       |
| <i>Brazil</i> .....                                                                                                                                            | L. S. Glass. Address for letters—Caixa Postal 2164, Rio de Janeiro. Office—Ed. Da "A Noite", Sala 802, Praca Maua.                                                      |
| <i>British Malaya</i> (Territory includes the Straits Settlements, the Federated and Unfederated Malay States, British Borneo, Northern Sumatra and Siam)..... | Acting Trade Commissioner, Union Building, Singapore, Straits Settlements.                                                                                              |
| <i>British West Indies</i> —<br>Trinidad (Territory includes Barbados, Windward and Leeward islands and British Guiana).....                                   | Acting Trade Commissioner. Address for letters—P.O. Box 125, Port of Spain. Office—Colonial Bank Building.                                                              |
| Jamaica (Territory covers Jamaica, Haiti, the Bahamas, and British Honduras).....                                                                              | F. W. Fraser, P.O. Box 225. Office—Canadian Bank of Commerce Chambers, Kingston.                                                                                        |
| <i>China</i> —<br>Shanghai.....                                                                                                                                | Acting Trade Commissioner. P.O. Box 264, Shanghai. Office—Ewo Building, 27 The Bund, Shanghai.                                                                          |
| Tientsin.....<br>(Territory includes North China and Manchuria).....                                                                                           | C. S. Bissett, Hong Kong and Shanghai Banking Corporation Building.                                                                                                     |
| <i>Cuba</i> (Territory includes Dominican Republic and Puerto Rico).....                                                                                       | E. L. McColl. Address for letters—Apartado 1945, Havana. Office address—Royal Bank of Canada Building, Calle Aguiar 75, Havana.                                         |
| <i>New Zealand</i> (Territory includes Fiji and Western Samoa).....                                                                                            | C. M. Croft. Address for letters—P.O. Box 33, Auckland. Office—Yorkshire House, Shortland Street, Auckland.                                                             |
| <i>Norway</i> (Territory includes Scandinavian countries and Finland).....                                                                                     | A. S. Bleakney, Stortingsgaten 28, Oslo.                                                                                                                                |
| <i>Panama</i> (Territory includes the Canal Zone, Venezuela, Colombia, Nicaragua and Costa Rica)....                                                           | J. A. Strong. Address for letters—P.O. Box 222, Panama City. Office—Royal Bank of Canada Building, Santa Ana Plaza, Panama City.                                        |
| <i>Peru</i> (Territory includes Bolivia, Chile and Ecuador).....                                                                                               | Acting Trade Commissioner. Address for letters—Casilla 1212, Lima. Office—Portal de Belen No. 166, Plaza San Martin, Lima.                                              |
| <i>South Africa</i> —<br>Cape Town (Territory includes Cape Province and Southwest Africa, Natal, Tanganyika, Kenya, Uganda, Mauritius and Madagascar).....    | G. R. Heasman. Address for letters—P.O. Box 683, Cape Town. Office—Cleghorn and Harris Building, Adderley Street, Cape Town. Cable address—Cantracom.                   |
| Johannesburg (Territory includes Transvaal, Orange Free State, Bechuanaland, Somaliland, the Rhodesias, Portuguese East Africa, Mozambique and Nyasaland)..... | J. L. Mutter. Address for letters—P.O. Box 715, Johannesburg. Cable Address—Cantracom.                                                                                  |
| <i>United Kingdom</i> —<br>London.....                                                                                                                         | Frederic Hudd, Chief Trade Commissioner in the United Kingdom, Canada House, Trafalgar Square, S.W. 1. Cable Address—Sleighing, London.                                 |
| London (Territory covers Home Counties, South-eastern Counties, and East Anglia).....                                                                          | J. H. English, Canada House, Trafalgar Square, S.W. 1.                                                                                                                  |



## CANADIAN GOVERNMENT TRADE COMMISSIONERS—concluded.

|                                                                                                                                         |                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| London (Territory—for fresh fruit only—covers United Kingdom, Norway, Denmark, Sweden, France, Holland, Belgium and Germany).....       | W. B. Gornall, Fruit Trade Commissioner, Aldine House, Bedford Street, Strand, W.C. 2. Cable address—Canfrucum.                                                                                                                 |
| London.....                                                                                                                             | W. A. Wilson, Animal Products Trade Commissioner, Canada House, Trafalgar Square, S.W. 1. Cable address—Agrilson.                                                                                                               |
| Liverpool (Territory covers North of England, Lincolnshire, North Midlands and North Wales).....                                        | H. R. Poussette, Century Bldgs., 31 North John Street.                                                                                                                                                                          |
| Bristol (Territory covers West of England, South Wales and South Midlands).....                                                         | Frederick Palmer, Northcliffe House, Colston Ave.                                                                                                                                                                               |
| Glasgow.....                                                                                                                            | G. B. Johnson, 200 St. Vincent Street. Cable address—Cantracom.                                                                                                                                                                 |
| Egypt (Territory includes the Sudan, Palestine, Cyprus, Iraq, Syria, Persia, Greece, Turkey, Bulgaria and Roumania).....                | Yves Lamontagne. Address for letters—P.O. Box 1770, Cairo. Office—22 Shari Kasr el Nil, Cairo.                                                                                                                                  |
| France (Territory includes French Colonies in North Africa).....                                                                        | Hercule Barré, Commercial Attaché, 3 rue Scribe, Paris (9). Cable address—Cancomac.                                                                                                                                             |
| Germany (Territory covers Germany—except the Rhine Valley—Czechoslovakia, Austria, Hungary, Poland, Lithuania, Latvia and Estonia)..... | Paul Sykes. Mönckebergstrasse 31, Hamburg.                                                                                                                                                                                      |
| Hong Kong (Territory includes South China, the Philippines and Indo-China).....                                                         | V. E. Duclos. Address for letters—P.O. Box 80, Hong Kong. Office—Gloucester Building, Hong Kong.                                                                                                                                |
| India and Ceylon.....                                                                                                                   | R. T. Young. Address for letters—P.O. Box 2003, Calcutta. Office—23 Esplanade Mansions, Government Place East, Calcutta.                                                                                                        |
| Irish Free State and Northern Ireland.....                                                                                              | James Cormack, 66 Upper O'Connell Street, Dublin, Irish Free State; and 44 Ann Street, Belfast, Northern Ireland. Cable address—Adanac.                                                                                         |
| Italy (Territory includes Spain, Portugal, Gibraltar, Malta, Albania and Yugoslavia).....                                               | A. B. Muddiman, Via Manzoni Nr. 5, Milan (102).                                                                                                                                                                                 |
| Japan—Tokyo.....                                                                                                                        | J. A. Langley, Commercial Secretary. Address for letters—P.O. Box 401, Tokyo Central. Office—Canadian Legation, 16 Omotecho, 3-chome, Akasakaku, Tokyo.                                                                         |
| Kobe.....                                                                                                                               | Richard Grew. Address for letters—P.O. Box 230, Kobe. Office—309 Crescent Building, 72 Kyomachi.                                                                                                                                |
| Mexico (Territory includes Guatemala, Honduras and Salvador).....                                                                       | M. B. Palmer. Address for letters—Apartado Num. 126-bis, Mexico City. Office—Edificio Banco de Londres y Mexico, Num. 30, Mexico City. Cable address—Cancoma.                                                                   |
| Netherlands (Territory includes the Rhine Valley and Switzerland).....                                                                  | J. C. McGillivray, Beursplein 26B, Rotterdam.                                                                                                                                                                                   |
| Netherlands Indies.....                                                                                                                 | Acting Trade Commissioner. Address for letters—P.O. Box 84, Batavia, Java. Office—Chartered Bank Building, Melacca St., Batavia, Java. (This office is administered as a branch of that at Singapore—see under British Malaya.) |
| United States—New York City. (Territory includes Bermuda).....                                                                          | D. S. Cole, 25 Broadway. Cable address—Cantracom.                                                                                                                                                                               |

Under an arrangement made by the Minister of Trade and Commerce with the British Foreign Office, Canadian manufacturers, exporters and others interested in trade matters may secure information and advice from British commercial diplomatic officers and British consuls in all countries in which Canada is not represented by her own Commercial Intelligence Service.

**Commercial Intelligence Journal.**—The Commercial Intelligence Journal, containing the reports of the Trade Commissioners and other pertinent material relating to export trade, is published weekly by the Department of Trade and Commerce in both English and French editions. The subscription price for either edition is \$1 per annum in Canada and \$3.50 outside of the Dominion. Special reports dealing with various phases of Canada's export trade are also issued from time to time, as supplements to the Commercial Intelligence Journal.



### Section 3.—Statistics of External Trade.\*

NOTE.—For the correct interpretation of the statistics of external trade, it is necessary that the following definitions and explanations of the terms used should be carefully kept in mind.

*Fiscal Years.*—The Canadian fiscal year ended on June 30 of the years from 1868 to 1906, and on Mar. 31 of 1907 and subsequent years.

*Quantities and Values.*—In all tables of imports and exports, the quantities and values are based upon the declarations of importers (import entries) and exporters (export entries), as subsequently checked by customs officials.

*Imports: Valuation.*—"Imports" means "Imports entered for consumption". "Entered for consumption" does not necessarily imply that the goods have been actually consumed in Canada, but that they have passed into the possession of the importer and that duty has been paid on that portion liable for duty.

Under the main provisions of the law, the value of merchandise imported into Canada is the fair market value or price thereof when sold for home consumption in the principal markets of the country from which, and at the same time when, said merchandise was exported directly to Canada; but the value shall not be less than the price to jobbers and wholesalers generally, nor less than the actual cost of production at the time of shipment plus a reasonable advance for cost of selling, and profit. (See Sections 35 to 45 of the Customs Act.)

For Customs entry purposes, the value of the currency of the country of export is converted to Canadian currency at exchange ratios as authorized by law and Orders in Council. (See Section 55 of the Customs Act and Orders in Council respecting currency valuations.)

*Canadian Exports: Valuation.*—"Canadian produce" exported includes Canadian products or manufactures, also exports of commodities of foreign origin which have been changed in form or enhanced in value by further manufacture in Canada, such as sugar refined in Canada from imported raw sugar, flour ground from imported wheat, and articles constructed or manufactured from imported materials. The value of exports of Canadian merchandise is the actual cost or the value at the time of exportation at the points in Canada whence consigned for export.

*Foreign Exports: Valuation.*—"Foreign produce" exported consists of foreign merchandise which had previously been imported (entered for home consumption). The value of such commodities is the actual cost.

*Countries to which Trade is Credited.*—Imports are classified as received from the countries whence they were consigned to Canada. The countries of consignment are the countries from which the goods have come, without interruption of transit, save in the course of transshipment or transfer from one conveyance to another. The countries whence goods are consigned are not necessarily the countries of actual origin, since goods produced in one country may be purchased by a firm in another country and thence despatched, after a longer or shorter interval, to Canada. In such cases the second country would be the country of consignment, to which the goods would be credited. An example is the case of tea grown in the Orient but purchased in the bonded market in London, England; Canadian statistics record such imports as coming from the United Kingdom.

\*Revised by W. A. Warne, Chief, External Trade Branch, Dominion Bureau of Statistics. This Branch publishes the Annual Report of the Trade of Canada, the Condensed Preliminary Report of the Trade of Canada (annual), the Quarterly Report of the Trade of Canada, the Calendar Year Report of the Trade of Canada, the Summary of the Trade of Canada (monthly), etc. For complete list of the publications of this Branch see Chapter XXIX, Section 1, under "External Trade".

Exports are credited to the country of final destination, *i.e.*, the country to which they are consigned, whether that country possesses a seaboard or not. The country of final destination is the country to which goods exported from Canada are intended to pass, without interruption of transit save in the course of transhipment or transfer from one means of conveyance to another.

*Discrepancies in Trade Statistics between Canada and Other Countries.*—Canadian statistics of exports are rarely in exact agreement with the import figures of her customers and similar differences occur with Canadian imports. Many factors contribute to these discrepancies; among these are the following:—

(1) Differences in the basis of the Canadian valuations and those of the valuations of other countries.

(2) Even where the statistics cover the same period of time, there are quantities of goods on their way from the exporting to the importing country at the beginning and end of the period.

(3) By far the greatest discrepancies occur from the impossibility of determining the country of final destination for exports or the actual country of origin for imports. Thus about 14 p.c. of Canada's exports to overseas countries are shipped *via* the United States. Some of this is credited by importing countries to the United States. Canadian grain exports, for example, are to a large extent routed through the United States in bond. Most of this grain leaves Canada with the United Kingdom as the stated destination, but large quantities are later diverted to other European or overseas countries and some is taken out of bond for consumption in the United States. Thus the Canadian record of exports to the United Kingdom may be \$100,000,000 or more in excess of Canadian products actually received by the United Kingdom, while stated exports to other overseas countries are short this amount. Again, United States' grain is routed through Canada and shipped from Montreal and is therefore frequently shown by other countries as imported from Canada, while it is included in United States statistics as an export to Canada. As mentioned above, purchases in bonded markets in England, Germany, Belgium and France are included in Canadian imports from those countries but are not included by those countries in exports to Canada.

For more detailed discussion of this subject see the article and tables on "Discrepancies in Trade Statistics" on pp. 778-781 of the Annual Report on the Trade of Canada, 1928, published by the Dominion Bureau of Statistics.

#### Subsection 1.—Historical Statistics of Canadian Trade.

A general view of the trade of Canada in the fiscal years from 1868 to 1934 is furnished in Table 1 (p. 554), giving the imports of merchandise for home consumption, dutiable and free, and the exports of Canadian and foreign produce, the total trade as here given being the aggregate of the two. Necessarily, some difficulties have been met in maintaining comparable statistics through such a length of time, one of the most serious of these arising from the different methods adopted in dealing with exports of foreign produce. For example, the shrinkage in the exports of foreign produce since 1920 has been due to change of statistical method rather than to actual diminution in value or volume of such goods exported. For the past 14 years, re-exports of foreign products from bonded warehouses have no longer been included in Canadian trade statistics either as imports or as exports, while the exports of foreign produce during this period have been composed of goods which had previously been entered as imports for home consumption. Such goods are debited to Canada when entering this country, and should be credited to Canada when re-exported.

From Table 2 it will be observed that, in most of the years from Confederation to the outbreak of the Great War, imports entered for consumption exceeded total exports, especially during the great growing period from 1904 to 1914. From 1915 to 1929, except in the fiscal year ended Mar. 31, 1921, there was an annual excess of total exports over imports entered for consumption. In the fiscal years ended Mar. 31, 1930 and 1931, however, there was an excess of imports which was changed to an excess of exports for the latest three years.

The percentage of exports to imports rose to a peak of 164.6 in 1918, owing to the exportation of war supplies, then dropped to 97.6 in 1921, rose again to a post-war high of 143.3 in 1926 and has since declined to 109.7 in 1929, 91.7 in 1930 and 90.1 in 1931, but rose to 101.6 in 1932, 118.3 in 1933 and 135.0 in 1934.

The values of coin and bullion imported and exported are shown in Table 3, the later figures including much new Canadian gold refined at the Mint. Amounts collected in export duties from 1868 to 1892, and in import duties from 1868 to 1934, together with the cost of collection expressed as a percentage of the total duties, are stated by years in Table 4. Tables 5 and 6 show, respectively, exports of Canadian produce and imports for home consumption from the United Kingdom, the United States and other countries since 1868. These figures show the overwhelming predominance of the two great English-speaking countries in our foreign trade; in the fiscal year ended Mar. 31, 1934, for example, 72.9 p.c. of our exports of domestic produce was shipped to these two countries, which, in the same year, together provided 79.1 p.c. of our imports for home consumption. Tables 7 and 8 show, respectively, by years the percentage proportions of imports from the United Kingdom and the United States to totals of dutiable and free imports since 1911, and the *ad valorem* rates of duty collected on imports from these and from all countries from 1868 to 1934. The higher rates collected on imports from the United Kingdom than on those from the United States in spite of the preferential tariff accorded British goods since 1897 is largely due to the following factors: (1) imports of alcoholic beverages, which are subject to high duties, bulk largely in imports from the United Kingdom but are negligible from the United States; (2) imports of raw materials for processing in Canada, which are free of duty, form an important part of imports from the United States; and (3) dutiable imports from the United Kingdom are largely highly manufactured goods which are subject to relatively higher rates than semi-manufactured goods for further manufacture in Canada, which form another large element of imports from the United States. This subject is treated in more detail at pp. 38-39 of the Condensed Preliminary Report on the Trade of Canada, 1934. Table 18 of this chapter shows the imports from Empire countries which entered Canada in 1934 at lower rates or free of duty under the preferential tariff.

Importations of important raw materials used in Canadian manufacturing industries are given in Table 9 for the fiscal years ended 1911 to 1934.

### Subsection 2.—General Analysis of Current Import and Export Trade.

The external trade of Canada, like that of every other country in the world, declined considerably in volume and very greatly in value in the period of falling prices following the War. Thereafter it recovered and by 1929 had reached a value greater even than in the war period. The great world-wide depression which commenced in the autumn of 1929, however, was responsible for a very great reduction in the value, and a smaller reduction in the volume, of the trade of Canada and of every other country, the total value of our merchandise trade falling steadily



from \$2,655,000,000 in the fiscal year ended Mar. 31, 1929 to \$887,000,000 in the fiscal year 1933. The fiscal year ended 1934 saw the turn of the tide with a total merchandise trade of \$1,019,000,000, further increased to \$1,173,000,000 in the calendar year 1934.

The external trade of Canada during the year ended Mar. 31, 1934, was valued at \$1,019,453,094, as compared with \$887,097,541 in 1933 and \$1,166,069,421 in 1932, showing an increase in 1934 of \$132,355,553 or 14.9 p.c. over 1933, and a decrease of \$146,616,327 or 12.6 p.c. from 1932. Imports as well as exports showed an increase in 1934 compared with the year 1933, the increase in imports amounting to \$27,414,881 or 6.7 p.c., and in exports to \$104,940,672 or 21.8 p.c. In this latest fiscal year the trade balance of the Dominion was favourable to the extent of \$151,855,844, compared with a favourable balance of \$74,330,053 in 1933, and of \$9,061,613 in 1932. If the trade in merchandise and coin and bullion are added together the trade balance with the world in the fiscal year 1934 was favourable to the extent of \$218,708,714, compared with a favourable balance of \$130,883,312 in 1933 and of \$75,101,389 in 1932. The place of these trade balances of merchandise and coin and bullion in the larger sphere of international payments is shown in Section 5 at the end of this chapter, pp. 637-639.

#### I.—SUMMARY OF CANADA'S TRADE WITH THE WORLD.

[Increase or favourable (+); decrease or unfavourable (-).]

| Item.                                      | Years ended Mar. 31— |               |               | 1934 Compared with— |               |
|--------------------------------------------|----------------------|---------------|---------------|---------------------|---------------|
|                                            | 1932.                | 1933.         | 1934.         | 1932.               | 1933.         |
| <b>MERCHANDISE.</b>                        |                      |               |               |                     |               |
| Imports—                                   | \$                   | \$            | \$            | \$                  | \$            |
| Dutiable goods.....                        | 388,498,048          | 256,377,100   | 250,476,412   | - 138,021,636       | - 5,900,688   |
| Free goods.....                            | 190,005,856          | 150,006,644   | 183,322,213   | - 6,683,643         | + 33,315,569  |
| Totals, Imports.....                       | 578,503,904          | 406,383,744   | 433,798,625   | - 144,705,279       | + 27,414,881  |
| Exports—                                   |                      |               |               |                     |               |
| Canadian produce.....                      | 576,344,302          | 473,799,955   | 579,343,145   | + 2,998,843         | + 105,543,190 |
| Foreign produce.....                       | 11,221,215           | 6,913,842     | 6,311,324     | - 4,909,891         | - 602,518     |
| Totals, Exports.....                       | 587,565,517          | 480,713,797   | 585,654,469   | - 1,911,048         | + 104,940,672 |
| Totals, Merchandise Trade                  | 1,166,069,421        | 887,097,541   | 1,019,453,094 | - 146,616,327       | + 132,355,553 |
| Balances of Trade in Merchandise.....      | + 9,061,613          | + 74,330,053  | + 151,855,844 | + 142,794,231       | + 77,525,791  |
| <b>COIN AND BULLION.</b>                   |                      |               |               |                     |               |
| Imports.....                               | 1,815,016            | 1,011,685     | 849,290       | - 965,726           | - 162,395     |
| Exports—                                   |                      |               |               |                     |               |
| Canadian produce.....                      | 44,994,578           | 50,722,602    | 64,952,531    | + 19,957,953        | + 14,229,929  |
| Foreign produce.....                       | 22,860,214           | 6,842,342     | 2,749,629     | - 20,110,585        | - 4,092,713   |
| Totals, Exports.....                       | 67,854,792           | 57,564,944    | 67,702,160    | - 152,632           | + 10,137,216  |
| Totals, Trade in Coin and Bullion.....     | 69,669,808           | 58,576,629    | 68,551,450    | - 1,130,032         | + 9,963,147   |
| Balances of Trade in Coin and Bullion..... | + 66,039,776         | + 56,553,259  | + 66,852,870  | + 813,094           | + 10,299,611  |
| <b>MERCHANDISE AND COIN AND BULLION.</b>   |                      |               |               |                     |               |
| Imports.....                               | 580,318,920          | 407,395,429   | 434,647,915   | - 145,671,005       | + 27,252,486  |
| Exports.....                               | 655,420,309          | 538,278,741   | 653,356,629   | - 2,063,680         | + 115,077,888 |
| Balances of Total Trade.....               | + 75,101,389         | + 130,883,312 | + 218,708,714 | + 143,607,325       | + 87,825,402  |



**Statistical Tables of Current Trade.**—Tables 10 to 18 (pp. 562–627) deal with the current trade statistics of the Dominion. Tables 10 and 11 are summary tables, showing by groups our trade with the United Kingdom, the United States and all countries, by values and percentages, for the latest four fiscal years. Table 12 shows the same in detail for exports and Table 13 for imports of all important articles. Table 14 shows by main classes imports as dutiable or free and exports as of Canadian or foreign produce for the five fiscal years 1930–34. Table 15 shows imports and exports for the fiscal year ended 1934 by degree of manufacture and by origin, and Table 16 gives similar information on a classification according to purpose. Table 17 gives our imports and exports for the two latest years by ports and provinces, and Table 18 shows the values imported from different countries dutiable or free under the general, preferential and treaty rate tariffs in 1934.

### **Subsection 3.—Trade with the United Kingdom and the British Empire.**

Ever since Confederation the external trade of Canada has been carried on predominantly with one or other of the two great English-speaking countries, the United Kingdom and the United States. In the early years of the Dominion, the United Kingdom, which was then lending us capital on a considerable scale for those times, supplied us with more than half our imports, though as a customer she came second to the United States. Later on, however, partly as the result of the free trade policy of the United Kingdom and the protectionist policy of the United States, the United Kingdom became the chief market for our exports, holding that position steadily from 1890 to 1920, while in certain of the more recent years the United States has been our largest customer. This latter tendency has again been reversed, however, owing on the one hand to the increasingly restrictive tariff legislation of the United States after 1920 and to the preferences granted to Canada and other Empire countries by the United Kingdom in 1932.

As regards our imports, on the other hand, the United States, though in the beginning ranking second in supplying our wants, took first place as early as 1876 and has maintained that position steadily since about 1883, the proximity of the two countries and the increasing population on both sides of the line being largely responsible. During the Great War, when the resources of the United Kingdom were absorbed in the struggle, the percentage of Canada's imports coming from the United States rose as high as 82·3 p.c. in 1918. From 1921 to 1930 it remained fairly constant at about two-thirds, while in recent years it has declined to 54·9 p.c. in 1934. Our imports from the United Kingdom, which fell as low as 8·0 p.c. of the total in 1919, fluctuated between 15·2 p.c. and 19·0 p.c. between 1921 and 1930, but rose from 15·2 p.c. in the latter year to 24·2 p.c. in 1934. Thus in four years the United Kingdom's share of our import trade has risen from less than a sixth to nearly one-quarter. In the same period the percentage of our exports taken by the United Kingdom has risen from 25·2 to 39·3 or from one-quarter to two-fifths.

The following statement gives summary statistics of Canadian trade with the United Kingdom in the latest years. Commodity imports in 1934 showed an increase of \$18,634,709 or 21·5 p.c. as compared with 1933, while exports of Canadian products to the United Kingdom showed an increase of \$43,240,392 or 23·5 p.c.

## II.—SUMMARY OF CANADA'S TRADE WITH THE UNITED KINGDOM.

[Increase or favourable (+); decrease or unfavourable (-).]

| Item.                                    | Years ended Mar. 31— |              |               | 1934, Compared with— |              |
|------------------------------------------|----------------------|--------------|---------------|----------------------|--------------|
|                                          | 1932.                | 1933.        | 1934.         | 1932.                | 1933.        |
| <b>MERCHANDISE.</b>                      | \$                   | \$           | \$            | \$                   | \$           |
| Imports—                                 |                      |              |               |                      |              |
| Dutiable goods.....                      | 79,693,730           | 55,691,414   | 57,037,796    | + 22,655,934         | + 1,346,382  |
| Free goods.....                          | 26,678,049           | 30,774,641   | 48,062,968    | + 21,384,919         | + 17,288,327 |
| Totals, Imports.....                     | 106,371,779          | 86,466,055   | 105,100,764   | + 1,271,015          | + 18,634,709 |
| Exports—                                 |                      |              |               |                      |              |
| Canadian produce.....                    | 174,043,725          | 184,361,019  | 227,601,411   | + 53,557,686         | + 43,240,392 |
| Foreign produce.....                     | 919,099              | 772,178      | 700,700       | - 218,399            | - 71,478     |
| Totals, Exports.....                     | 174,962,824          | 185,133,197  | 228,302,111   | + 53,339,287         | + 43,168,914 |
| Totals, Merchandise Trade                | 281,334,603          | 271,599,252  | 333,402,875   | + 52,068,272         | + 61,803,623 |
| Balances, Merchandise Trade              | + 68,591,045         | + 98,667,142 | + 123,201,347 | + 54,610,302         | + 24,534,205 |
| <b>COIN AND BULLION.</b>                 |                      |              |               |                      |              |
| Imports.....                             | 13,689               | 18,985       | 29,965        | + 16,276             | + 10,980     |
| Exports—                                 |                      |              |               |                      |              |
| Canadian produce.....                    | -                    | 10           | 49,043,153    | + 49,043,153         | + 49,043,143 |
| Foreign produce.....                     | 1,194                | 233          | 2,483,732     | + 2,482,528          | + 2,483,499  |
| Totals, Exports.....                     | 1,194                | 243          | 51,526,885    | + 51,525,691         | + 51,526,642 |
| Totals, Trade in Coin and Bullion.....   | 14,883               | 19,228       | 51,556,850    | + 51,549,584         | + 51,545,239 |
| Balances, Trade in Coin and Bullion..... | - 12,495             | - 18,742     | + 51,496,920  | + 51,509,415         | + 51,515,662 |
| <b>MERCHANDISE AND COIN AND BULLION.</b> |                      |              |               |                      |              |
| Imports.....                             | 106,385,468          | 86,485,040   | 105,130,729   | + 1,254,739          | + 18,645,689 |
| Exports.....                             | 174,964,018          | 185,133,440  | 279,828,996   | + 104,864,978        | + 94,695,556 |
| Balances, Total Trade.....               | + 68,578,550         | + 98,648,400 | + 174,698,267 | + 106,119,717        | + 76,049,867 |

The commodities making up Canada's export and import trade with the United Kingdom in recent years are dealt with in detail in Tables 12 and 13 of this chapter.

**Trade of Canada with the British Empire.**—Canada was the first of the British Dominions to grant a preference on goods the produce and manufacture of the United Kingdom and reciprocating British Dominions and possessions. This preference was extended by Order in Council from time to time to other portions of the British Empire until now it is applicable to practically every British Dominion and possession. In the case of Newfoundland, in addition to the preference, Canada grants free admission to fish and fish products. Australia receives special concessions under the Trade Agreement of 1931 and the British West Indies under the Agreement of 1925 referred to on p. 520. Table 18 on p. 627 shows for the latest fiscal year the imports from countries of the British Empire entering Canada either at lower rates of duty or free under the preferential tariff. The British preferential tariff enacted in 1897 has had the effect of stimulating Canada's Empire trade. When the British preference became effective in 1897 Canada's total imports from the United Kingdom amounted to only \$29,401,000, compared with imports in 1887 valued at \$44,741,000 and in 1873 at \$67,997,000, so that from 1873 to 1897 imports from the United Kingdom declined by \$38,596,000 or 56·7 p.c. After the

introduction of the British preferential tariff, the downward trend in the value of imports from the United Kingdom was reversed, but imports from the Empire were at a low level. However, during the latest four years and especially since the Ottawa Agreements, the proportion of trade with both the United Kingdom and the total British Empire has shown a distinctly upward trend, although both the volume and direction of Canada's exports vary widely with the vicissitudes of crops here and in other parts of the world. Canada's exports to Empire countries other than the United Kingdom consist very largely of manufactured products.

In the interpretation of statistics covering a long period, such as those in Statement III following, the wide fluctuations in price levels should be borne in mind. Thus the fiscal year 1896, just prior to the introduction of the British preference, marked about the close of a long period of declining prices which began in the '70's. Prices followed a rising trend from then to the last pre-war fiscal year 1914, and rose very steeply throughout the War to a peak in the fiscal year ended 1921. In the following year, prices suffered a sudden drop and then remained fairly steady until 1929, after which the recent serious decline has occurred. (See Chapter XX.) The trade of Canada with the British Empire in certain fiscal years since 1886 was as under:—

## III.—CANADA'S TRADE WITH THE BRITISH EMPIRE.

| Item and Fiscal Year. | Canadian Trade with— |                       |                       | Percentage of Total Trade with— |                       |                       |
|-----------------------|----------------------|-----------------------|-----------------------|---------------------------------|-----------------------|-----------------------|
|                       | United Kingdom.      | Other British Empire. | Total British Empire. | United Kingdom.                 | Other British Empire. | Total British Empire. |
| IMPORTS.              | £                    | £                     | £                     | p.c.                            | p.c.                  | p.c.                  |
| 1886.....             | 39,033,006           | 2,383,560             | 41,416,566            | 40·7                            | 2·5                   | 43·2                  |
| 1896.....             | 32,824,505           | 2,388,647             | 35,213,152            | 31·2                            | 2·2                   | 33·4                  |
| 1906.....             | 69,183,915           | 14,605,519            | 83,789,434            | 24·4                            | 5·1                   | 29·5                  |
| 1914.....             | 132,070,406          | 22,456,440            | 154,526,846           | 21·4                            | 3·6                   | 25·0                  |
| 1921.....             | 213,973,562          | 52,029,126            | 266,002,688           | 17·3                            | 4·2                   | 21·5                  |
| 1922.....             | 117,135,343          | 31,973,910            | 149,109,253           | 15·7                            | 4·3                   | 20·0                  |
| 1926.....             | 163,731,210          | 45,088,918            | 208,820,128           | 17·6                            | 4·9                   | 22·5                  |
| 1929.....             | 194,041,381          | 63,346,829            | 257,388,210           | 15·3                            | 5·0                   | 20·3                  |
| 1930.....             | 189,179,738          | 63,494,864            | 252,674,602           | 15·2                            | 5·1                   | 20·2                  |
| 1931.....             | 149,497,392          | 56,491,896            | 204,989,286           | 16·5                            | 6·2                   | 22·7                  |
| 1932.....             | 106,371,779          | 41,440,214            | 147,811,993           | 18·4                            | 7·2                   | 25·6                  |
| 1933.....             | 86,466,055           | 33,918,269            | 120,384,324           | 21·3                            | 8·3                   | 29·6                  |
| 1934.....             | 105,100,764          | 35,303,122            | 140,403,886           | 24·2                            | 8·2                   | 32·4                  |
| EXPORTS (Canadian).   | £                    | £                     | £                     | p.c.                            | p.c.                  | p.c.                  |
| 1886.....             | 36,694,263           | 3,262,803             | 39,957,066            | 47·2                            | 4·2                   | 51·4                  |
| 1896.....             | 62,717,941           | 4,048,198             | 66,766,139            | 57·2                            | 3·7                   | 60·9                  |
| 1906.....             | 127,456,465          | 10,964,757            | 138,421,222           | 54·2                            | 4·5                   | 58·7                  |
| 1914.....             | 215,253,969          | 23,388,548            | 238,642,517           | 49·9                            | 5·4                   | 55·3                  |
| 1921.....             | 312,844,871          | 90,607,348            | 403,452,219           | 26·3                            | 7·6                   | 33·9                  |
| 1922.....             | 299,361,675          | 46,473,735            | 345,835,410           | 40·4                            | 6·3                   | 46·7                  |
| 1926.....             | 508,237,560          | 90,330,435            | 598,567,995           | 38·7                            | 6·9                   | 45·6                  |
| 1929.....             | 429,730,485          | 106,258,803           | 535,989,288           | 31·5                            | 7·8                   | 39·3                  |
| 1930.....             | 281,745,965          | 97,825,173            | 379,571,138           | 25·2                            | 8·8                   | 33·9                  |
| 1931.....             | 219,246,499          | 73,617,897            | 292,864,396           | 27·4                            | 9·2                   | 36·6                  |
| 1932.....             | 174,043,725          | 44,912,662            | 218,956,387           | 30·2                            | 7·8                   | 38·0                  |
| 1933.....             | 184,361,019          | 37,757,908            | 222,118,927           | 38·9                            | 8·0                   | 46·9                  |
| 1934.....             | 227,601,411          | 50,423,723            | 278,025,134           | 39·3                            | 8·7                   | 48·0                  |



#### Subsection 4.—Trade with the United States and other Foreign Countries.

**Trade with the United States.**—In the period immediately following Confederation the United States was Canada's chief customer, trade still following its accustomed channels in spite of the denunciation of the Reciprocity Treaty, which had expired on Mar. 17, 1866. On the other hand, we bought more from the United Kingdom than from the United States.

In the '70's, however, the proportion of our exports going to the United States, which had been over 50 p.c. in the first few years of the Dominion, declined materially, but for the most part remained at over 40 p.c. until after the enactment of the McKinley Tariff of 1890, when it fell to 35 p.c. in 1892 and as low as 27 p.c. in 1898. In the first decade of the twentieth century it averaged about 35 p.c., but fell off considerably in the war years, rising again to about 40 p.c. on the average of the nineteen-twenties.

Imports from the United States exceeded half of our total imports for the first time in the years from 1877 to 1879, while in the eighteen-eighties they were approximately equivalent to those from the United Kingdom, at from 40 to 45 p.c. from either country. By 1896, however, imports from the United States again reached half of the total, and subsequently have never fallen below that point, increasing both absolutely and relatively during the great period of expansion until 1913, when they were 65.0 p.c. of all imports. In the extraordinary circumstances of the Great War they rose as high as 82.3 p.c. in 1918, and throughout the nineteen-twenties stood at about two-thirds of the total. In the most recent year, however, to some extent as the result of the Ottawa Agreements and the premium on United States funds, the percentage of imports coming from the United States has declined to 54.9 or approximately five-ninths of the total.

*Analysis of Canada's Total Trade with the United States.*—Canada's total merchandise trade with the United States in the fiscal year 1934 was valued at \$437,538,613, compared with \$381,077,886 in 1933, and \$596,037,639 in 1932, the increase in 1934 over 1933 amounting to \$56,460,727 or 14.8 p.c., but a decrease of \$158,499,026 or 26.6 p.c. compared with 1932. Imports from the United States in 1934 were valued at \$238,187,681, in 1933 at \$232,548,055, and in 1932 at \$351,686,775, the increase in 1934 compared with 1933 amounting to \$5,639,626 or 2.4 p.c., but compared with 1932 the decrease was \$113,499,094 or 32.3 p.c. The total exports to the United States in 1934 amounted to \$199,350,932, in 1933 to \$148,529,831, and in 1932 to \$244,350,864, the increase in 1934 compared with 1933 amounting to \$50,821,099 or 34.2 p.c., while compared with 1932 the decrease was \$44,999,932 or 18.4 p.c. The domestic exports to the United States in 1934 amounted to \$194,443,139, in 1933 to \$143,160,400, and in 1932 to \$235,186,674, the increase in 1934 compared with 1933 amounting to \$51,282,739 or 35.8 p.c., but compared with 1932 the decrease was \$40,743,535 or 17.3 p.c. The trade balance with the United States has been unfavourable to Canada in each year since 1882. For the year ended Mar. 31, 1934, Canada's unfavourable merchandise trade balance with the United States totalled \$38,836,749, being less than for any fiscal year since 1901 (when it was \$36,971,065). In 1929 the unfavourable trade balance with the United States amounted to \$346,745,142, in 1930 to \$310,753,856, in 1931 to \$220,483,994, in 1932 to \$107,335,911 and in 1933 to \$84,018,224. If the trade in merchandise and coin and bullion are combined, the trade balance with the United States was unfavourable in 1934 to the extent of \$23,472,761, compared with an unfavourable balance in 1933 of \$27,443,575, and in 1932 of \$43,314,645.



## IV.—SUMMARY OF CANADA'S TRADE WITH THE UNITED STATES.

[Increase or favourable (+); decrease or unfavourable (-).]

| Item.                                    | Years ended Mar. 31— |              |              | 1934 Compared with— |              |
|------------------------------------------|----------------------|--------------|--------------|---------------------|--------------|
|                                          | 1932.                | 1933.        | 1934.        | 1932.               | 1933.        |
| <b>MERCHANDISE.</b>                      | \$                   | \$           | \$           | \$                  | \$           |
| <b>Imports—</b>                          |                      |              |              |                     |              |
| Dutiable goods.....                      | 229,639,736          | 143,806,122  | 139,955,233  | - 89,684,503        | - 3,850,889  |
| Free goods.....                          | 122,047,039          | 88,741,933   | 98,232,448   | - 23,814,591        | + 9,490,515  |
| Totals, Imports.....                     | 351,686,775          | 232,548,055  | 238,187,681  | - 113,499,094       | + 5,639,626  |
| <b>Exports—</b>                          |                      |              |              |                     |              |
| Canadian produce.....                    | 235,186,674          | 143,160,400  | 194,443,139  | - 40,743,535        | + 51,282,739 |
| Foreign produce.....                     | 9,164,190            | 5,369,431    | 4,907,793    | - 4,256,397         | - 461,638    |
| Totals, Exports.....                     | 244,350,864          | 148,529,831  | 199,350,932  | - 44,999,932        | + 50,821,099 |
| Totals, Merchandise Trade                | 596,037,639          | 381,077,886  | 437,538,613  | - 158,499,026       | + 56,460,727 |
| Balances, Merchandise Trade..            | - 107,335,911        | - 84,018,224 | - 38,836,749 | + 68,499,162        | + 45,181,475 |
| <b>COIN AND BULLION.</b>                 |                      |              |              |                     |              |
| <b>Imports.....</b>                      | 1,721,437            | 968,372      | 800,238      | - 921,199           | - 168,134    |
| <b>Exports—</b>                          |                      |              |              |                     |              |
| Canadian produce.....                    | 44,057,911           | 50,722,592   | 15,909,378   | - 28,148,533        | - 34,813,214 |
| Foreign produce.....                     | 21,684,792           | 6,820,429    | 254,848      | - 21,429,944        | - 6,575,581  |
| Totals, Exports.....                     | 65,742,703           | 57,543,021   | 16,164,226   | - 49,578,477        | - 41,378,795 |
| Totals, Trade in Coin and Bullion.....   | 67,464,140           | 58,511,393   | 16,964,464   | - 50,499,676        | - 41,546,929 |
| Balances, Trade in Coin and Bullion..... | + 64,021,266         | + 56,574,649 | + 15,363,988 | - 48,657,278        | - 41,210,661 |
| <b>MERCHANDISE AND COIN AND BULLION.</b> |                      |              |              |                     |              |
| <b>Imports.....</b>                      | 353,408,212          | 233,516,427  | 238,987,919  | - 114,420,293       | + 5,471,492  |
| <b>Exports.....</b>                      | 310,093,567          | 206,072,852  | 215,515,158  | - 94,578,409        | + 9,442,306  |
| Balances, Total Trade.....               | - 43,314,645         | - 27,443,575 | - 23,472,761 | + 19,841,884        | + 3,970,814  |

For a more detailed treatment of the commodities making up our export and import trade with the United States, see Tables 12 and 13 of this chapter.

**Canadian Trade via the United States.**—Imports from overseas countries *via* the United States have steadily declined in recent years, especially those from the British Empire. This decrease has followed: (1) general propaganda to utilize Canadian sea and river ports; (2) additional concessions to goods imported under the preferential tariff if they come direct. Provision has been made, in trade treaties and agreements negotiated with foreign countries, that goods must be imported *via* a Canadian sea or river port in order to obtain the full benefits of special rates of duty. Between 1920 and 1934 imports *via* the United States have decreased from 9.5 p.c. to 1.85 p.c. of the total imports from overseas countries.

The proportion of exports from Canada to overseas countries going *via* the United States shows a considerable decline since 1927, the percentages for the past eight fiscal years being: 1927, 39.4; 1928, 38.7; 1929, 36.6; 1930, 33.7; 1931, 27.3; 1932, 18.7; 1933, 14.2; 1934, 14.4. The decline has thus been very marked in the latest years. Details by countries are given in Table 21 of this chapter.

**Trade with Other Foreign Countries.**—The relative changes in the positions occupied by the United States and other foreign countries in Canada's trade in various years from 1886 to 1934 are shown in Statement V below. During the War and the years immediately following, when production and exports by many European countries were curtailed, imports from the United States rose to a high proportion and were 69 p.c. in 1921, while those from other foreign countries declined. With this exception the proportion of imports from other foreign countries has remained surprisingly constant over the period of nearly half a century at about one-tenth to one-eighth of total imports. Canadian exports to the United States have fluctuated between 30 p.c. and 46 p.c. of the total, while those to other foreign countries have increased from 4.5 p.c. to as high as 24.0 p.c. in 1929, declining to 18.4 p.c. in 1934.

V.—CANADA'S TRADE WITH THE UNITED STATES AND OTHER FOREIGN COUNTRIES.

| Item and Fiscal Year.      | Canadian Trade with — |                          |                        | Percentage of Total Trade with— |                          |                        |
|----------------------------|-----------------------|--------------------------|------------------------|---------------------------------|--------------------------|------------------------|
|                            | United States.        | Other Foreign Countries. | All Foreign Countries. | United States.                  | Other Foreign Countries. | All Foreign Countries. |
| <b>IMPORTS.</b>            | <b>\$</b>             | <b>\$</b>                | <b>\$</b>              | <b>p.c.</b>                     | <b>p.c.</b>              | <b>p.c.</b>            |
| 1886.....                  | 42,818,651            | 11,756,920               | 54,575,571             | 44.6                            | 12.2                     | 56.8                   |
| 1896.....                  | 53,529,390            | 16,618,619               | 70,148,009             | 50.8                            | 15.8                     | 66.6                   |
| 1906.....                  | 169,256,452           | 30,694,394               | 199,950,846            | 59.6                            | 10.9                     | 70.5                   |
| 1914.....                  | 396,302,138           | 68,365,014               | 464,667,152            | 64.0                            | 11.0                     | 75.0                   |
| 1921.....                  | 856,176,820           | 117,979,374              | 974,156,194            | 69.0                            | 9.5                      | 78.5                   |
| 1922.....                  | 515,958,196           | 82,736,883               | 598,695,079            | 69.0                            | 11.0                     | 80.0                   |
| 1926.....                  | 608,618,542           | 109,890,062              | 718,508,604            | 65.6                            | 11.9                     | 77.5                   |
| 1929.....                  | 868,012,229           | 140,278,652              | 1,008,290,881          | 68.6                            | 11.1                     | 79.7                   |
| 1930.....                  | 847,442,037           | 148,156,943              | 995,598,980            | 67.9                            | 11.8                     | 79.7                   |
| 1931.....                  | 584,407,018           | 117,307,251              | 701,714,269            | 64.5                            | 12.9                     | 77.4                   |
| 1932.....                  | 351,686,775           | 79,005,136               | 430,691,911            | 60.8                            | 13.6                     | 74.4                   |
| 1933.....                  | 232,548,055           | 53,451,365               | 285,999,420            | 57.2                            | 13.2                     | 70.4                   |
| 1934.....                  | 238,187,681           | 55,207,058               | 293,394,739            | 54.9                            | 12.7                     | 67.6                   |
| <b>EXPORTS (Canadian).</b> |                       |                          |                        |                                 |                          |                        |
| 1886.....                  | 34,284,490            | 3,515,148                | 37,799,638             | 44.1                            | 4.5                      | 48.6                   |
| 1896.....                  | 37,789,481            | 5,152,185                | 42,941,666             | 34.4                            | 4.7                      | 39.1                   |
| 1906.....                  | 83,546,306            | 13,516,428               | 97,062,734             | 35.5                            | 5.8                      | 41.3                   |
| 1914.....                  | 163,372,825           | 29,573,097               | 192,945,922            | 37.9                            | 6.8                      | 44.7                   |
| 1921.....                  | 512,322,967           | 243,388,515              | 755,711,482            | 45.6                            | 20.5                     | 66.1                   |
| 1922.....                  | 292,588,643           | 101,816,627              | 394,405,270            | 39.5                            | 13.8                     | 53.3                   |
| 1926.....                  | 474,987,367           | 241,800,429              | 716,787,796            | 36.1                            | 18.3                     | 54.4                   |
| 1929.....                  | 499,612,145           | 328,108,239              | 827,720,384            | 36.7                            | 24.0                     | 60.7                   |
| 1930.....                  | 515,049,763           | 225,637,401              | 740,687,164            | 46.0                            | 20.0                     | 66.0                   |
| 1931.....                  | 349,660,563           | 157,217,708              | 506,878,271            | 43.7                            | 19.7                     | 63.4                   |
| 1932.....                  | 235,186,674           | 122,201,241              | 357,387,915            | 40.8                            | 21.2                     | 62.0                   |
| 1933.....                  | 143,160,400           | 108,520,628              | 251,681,028            | 30.2                            | 22.9                     | 53.1                   |
| 1934.....                  | 194,443,139           | 106,874,872              | 301,318,011            | 33.6                            | 18.4                     | 52.0                   |

With further reference to the trade of Canada with countries other than the United Kingdom and the United States, attention is directed to Tables 10 to 37 (pp. 153-188) of the Condensed Preliminary Report on the Trade of Canada, 1934, published by the Bureau of Statistics. These tables show the trade of Canada in leading commodities with 84 British and foreign countries for the fiscal years 1933 and 1934.

### Subsection 5.—Geographical Distribution of Canadian Trade by Continents and Countries.

**Canadian Trade by Continents, 1934.**—In the latest fiscal year both exports of Canadian products and imports increased substantially, imports by \$27,600,000 and exports by \$105,500,000. Imports from the United Kingdom increased by \$18,700,000 and from the United States by \$5,700,000, while imports from "other Europe", "other North America" and Africa showed slight declines, and imports from South Africa, Asia and Oceania recorded minor increases. Of the increase in exports of Canadian products totalling \$105,500,000, the United Kingdom accounted for \$43,200,000, the United States for \$51,300,000, Asia for \$3,600,000, Oceania for \$5,100,000, Africa for \$4,000,000 and South America for \$1,300,000. "Other Europe" and "other North America" recorded slight declines. Details respecting Canada's trade by continents, 1929 to 1934, are given in the following statement.

#### VI.—CANADA'S TRADE BY CONTINENTS, FISCAL YEARS 1929 TO 1934.

| Item and Continent.        | Values in Millions of Dollars. |         |       |       |       |       | Percentages of Totals. |       |       |       |       |       |
|----------------------------|--------------------------------|---------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|-------|
|                            | 1929.                          | 1930.   | 1931. | 1932. | 1933. | 1934. | 1929.                  | 1930. | 1931. | 1932. | 1933. | 1934. |
|                            | \$                             | \$      | \$    | \$    | \$    | \$    | p.c.                   | p.c.  | p.c.  | p.c.  | p.c.  | p.c.  |
| <b>IMPORTS.</b>            |                                |         |       |       |       |       |                        |       |       |       |       |       |
| Europe—                    |                                |         |       |       |       |       |                        |       |       |       |       |       |
| United Kingdom.....        | 194.0                          | 189.2   | 149.5 | 106.4 | 86.4  | 105.1 | 15.3                   | 15.2  | 16.5  | 18.4  | 21.3  | 24.2  |
| Other.....                 | 92.7                           | 95.7    | 74.7  | 50.6  | 34.9  | 34.0  | 7.3                    | 7.6   | 8.2   | 8.7   | 8.6   | 7.9   |
| North America—             |                                |         |       |       |       |       |                        |       |       |       |       |       |
| United States.....         | 868.1                          | 847.4   | 584.4 | 351.7 | 232.5 | 238.2 | 68.6                   | 67.9  | 64.5  | 60.8  | 57.2  | 54.9  |
| Other.....                 | 26.2                           | 24.0    | 23.4  | 17.6  | 13.9  | 13.1  | 2.1                    | 1.9   | 2.6   | 3.0   | 3.4   | 3.0   |
| South America.....         | 26.5                           | 31.9    | 25.6  | 17.3  | 10.6  | 11.6  | 2.1                    | 2.6   | 2.9   | 3.0   | 2.6   | 2.7   |
| Asia.....                  | 33.5                           | 31.1    | 27.7  | 18.8  | 12.4  | 16.2  | 2.6                    | 2.5   | 3.0   | 3.3   | 3.1   | 3.7   |
| Oceania.....               | 22.5                           | 24.5    | 14.4  | 9.5   | 9.1   | 9.7   | 1.8                    | 1.9   | 1.6   | 1.7   | 2.2   | 2.3   |
| Africa.....                | 2.2                            | 4.5     | 6.9   | 6.6   | 6.4   | 5.9   | 0.2                    | 0.4   | 0.7   | 1.1   | 1.6   | 1.3   |
| Totals, Imports.....       | 1,265.7                        | 1,248.3 | 906.6 | 578.5 | 406.2 | 433.8 | 100.0                  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| <b>EXPORTS (CANADIAN).</b> |                                |         |       |       |       |       |                        |       |       |       |       |       |
| Europe—                    |                                |         |       |       |       |       |                        |       |       |       |       |       |
| United Kingdom.....        | 429.7                          | 281.7   | 219.2 | 174.0 | 184.4 | 227.6 | 31.5                   | 25.2  | 27.4  | 30.2  | 38.9  | 39.3  |
| Other.....                 | 213.1                          | 125.9   | 90.0  | 77.2  | 72.7  | 72.4  | 15.6                   | 11.2  | 11.3  | 13.4  | 15.3  | 12.5  |
| North America—             |                                |         |       |       |       |       |                        |       |       |       |       |       |
| United States.....         | 500.2                          | 515.0   | 349.6 | 235.2 | 143.1 | 194.4 | 36.7                   | 46.0  | 43.7  | 40.8  | 30.2  | 33.6  |
| Other.....                 | 42.9                           | 46.2    | 45.8  | 31.6  | 25.9  | 23.2  | 3.1                    | 4.1   | 5.7   | 5.5   | 5.5   | 4.0   |
| South America.....         | 32.6                           | 34.7    | 20.6  | 8.9   | 6.6   | 7.9   | 2.4                    | 3.1   | 2.6   | 1.5   | 1.4   | 1.4   |
| Asia.....                  | 87.2                           | 63.1    | 39.4  | 28.3  | 22.7  | 26.3  | 6.4                    | 5.6   | 4.9   | 4.9   | 4.8   | 4.5   |
| Oceania.....               | 37.6                           | 36.1    | 20.0  | 10.2  | 12.4  | 17.5  | 2.8                    | 3.2   | 2.5   | 1.8   | 2.6   | 3.0   |
| Africa.....                | 20.3                           | 17.6    | 15.0  | 10.9  | 6.0   | 10.0  | 1.5                    | 1.6   | 1.9   | 1.9   | 1.3   | 1.7   |
| Totals, Exports.....       | 1,363.6                        | 1,120.3 | 799.6 | 576.3 | 473.8 | 579.3 | 100.0                  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

**Imports from Principal Countries.**—The following statement on imports from thirty-five leading countries in 1934 shows how predominant the two great English-speaking countries are as the source of supply of Canadian imports, the United States supplying approximately 55 p.c. of all our imports, while the United Kingdom, with less than half the share of the United States in our import trade, has, nevertheless, more than ten times as large a share as Germany, ranking third. Again it is to be noted that in 1934 three British countries, India, Australia and South Africa, took fifth, sixth and seventh places, respectively, in our import trade, ranking immediately after Germany and France. These same countries twelve years earlier ranked ninth, thirtieth and forty-fourth, respectively, in supplying us with imports and the change is indicative of the growing proportion of Empire trade to total trade.

## VII.—CANADA'S IMPORTS FROM THIRTY-FIVE LEADING COUNTRIES, 1934.

NOTE.—Countries arranged in order of importance, 1934.

| Rank.                           |      |      |      |                                  | Country.    | Value of Imports, 1934. | Increases (+) or Decreases (—)<br>1934 Compared with— |             |            |           |
|---------------------------------|------|------|------|----------------------------------|-------------|-------------------------|-------------------------------------------------------|-------------|------------|-----------|
| 1922                            | 1932 | 1933 | 1934 | 1922.                            |             |                         | 1932.                                                 | 1933.       |            |           |
|                                 |      |      |      | \$                               |             |                         | \$                                                    | \$          | \$         |           |
| 1                               | 1    | 1    | 1    | United States.....               | 238,187,681 | — 277,770,515           | — 113,499,094                                         | +           | 5,639,626  |           |
| 2                               | 2    | 2    | 2    | United Kingdom.....              | 105,100,764 | — 12,034,579            | — 1,271,015                                           | +           | 18,634,709 |           |
| 19                              | 4    | 3    | 3    | Germany.....                     | 9,922,704   | +                       | 7,881,688                                             | +           | 833,799    |           |
| 3                               | 3    | 4    | 4    | France.....                      | 6,898,411   | — 6,583,594             | — 6,671,730                                           | —           | 814,147    |           |
| 9                               | 8    | 7    | 5    | British India.....               | 5,941,863   | +                       | 662,006                                               | +           | 842,127    |           |
| 30                              | 7    | 5    | 6    | Australia.....                   | 5,406,582   | +                       | 4,327,258                                             | —           | 1,847,662  |           |
| 44                              | 13   | 6    | 7    | British South Africa.....        | 3,642,197   | +                       | 3,514,459                                             | —           | 496,005    |           |
| 7                               | 17   | 15   | 8    | Peru.....                        | 3,579,726   | — 3,403,677             | — 64,137                                              | +           | 1,264,867  |           |
| 35                              | 10   | 11   | 9    | Colombia.....                    | 3,569,707   | +                       | 3,209,198                                             | — 1,465,604 | +          | 1,006,205 |
| 6                               | 5    | 8    | 10   | Japan.....                       | 3,311,687   | — 4,882,994             | — 2,678,714                                           | —           | 204,199    |           |
| 11                              | 6    | 9    | 11   | Netherlands.....                 | 3,241,669   | — 760,378               | — 2,586,300                                           | —           | 549,224    |           |
| 12                              | 9    | 10   | 12   | Belgium.....                     | 3,200,168   | — 645,550               | — 1,847,553                                           | —           | 474,329    |           |
| 14                              | 20   | 13   | 13   | Barbados.....                    | 3,126,857   | +                       | 132,298                                               | +           | 442,350    |           |
| 5                               | 16   | 17   | 14   | Switzerland.....                 | 2,808,308   | — 5,863,300             | — 453,422                                             | +           | 270,022    |           |
| 36                              | 12   | 12   | 15   | Jamaica.....                     | 2,640,286   | — 424,755               | — 1,765,738                                           | —           | 408,673    |           |
| 28                              | 14   | 14   | 16   | Italy.....                       | 2,579,950   | — 1,192,580             | — 1,613,487                                           | —           | 554,078    |           |
| 21                              | 29   | 26   | 17   | New Zealand.....                 | 2,575,158   | — 791,658               | — 1,494,928                                           | —           | 226,411    |           |
| 26                              | 15   | 21   | 18   | China.....                       | 2,330,559   | — 917,032               | — 1,394,999                                           | +           | 1,605,514  |           |
| 15                              | 21   | 27   | 19   | Argentina.....                   | 2,049,563   | — 305,537               | — 558,800                                             | +           | 725,107    |           |
| 23                              | 18   | 16   | 20   | Trinidad and Tobago.....         | 1,986,716   | — 308,058               | — 1,138,186                                           | —           | 1,154,581  |           |
| 20                              | 22   | 19   | 21   | Fiji.....                        | 1,647,324   | — 318,556               | — 959,106                                             | —           | 441,536    |           |
| 17                              | 25   | 25   | 22   | Ceylon.....                      | 1,409,959   | — 777,370               | — 163,957                                             | +           | 571,027    |           |
| 36                              | 19   | 20   | 23   | Czechoslovakia.....              | 1,403,472   | — 1,051,548             | — 1,356,392                                           | —           | 328,937    |           |
| 8                               | 11   | 18   | 24   | British Guiana.....              | 1,389,183   | — 4,777,481             | — 3,152,739                                           | —           | 365,572    |           |
| 29                              | 24   | 23   | 25   | Other British West Indies.....   | 1,357,089   | — 132,064               | — 203,427                                             | +           | 910,631    |           |
| 38                              | 32   | 32   | 26   | Sweden.....                      | 1,138,443   | — 893,148               | — 258,967                                             | +           | 121,613    |           |
| 22                              | 27   | 24   | 27   | Spain.....                       | 1,128,755   | — 650,653               | — 347,875                                             | +           | 434,250    |           |
| 4                               | 31   | 31   | 28   | Cuba.....                        | 1,063,239   | — 11,979,329            | — 82,148                                              | +           | 31,998     |           |
| 25                              | 35   | 38   | 29   | British Straits Settlements..... | 1,001,878   | — 452,864               | — 451,101                                             | +           | 357,415    |           |
| 65                              | 28   | 30   | 30   | British East Africa.....         | 928,543     | — 921,433               | — 507,795                                             | +           | 615,544    |           |
| 75                              | 25   | 22   | 31   | Dutch West Indies.....           | 867,486     | — 865,981               | — 632,215                                             | +           | 203,565    |           |
| —                               | 44   | 37   | 32   | Egypt.....                       | 701,155     | — 632,592               | — 431,652                                             | +           | 690,302    |           |
| 27                              | 26   | 34   | 33   | Newfoundland.....                | 630,070     | — 761,956               | — 853,111                                             | —           | 293,574    |           |
| 24                              | 30   | 33   | 34   | Brazil.....                      | 626,586     | — 868,659               | — 355,958                                             | —           | 84,543     |           |
| 18                              | 34   | 36   | 35   | Hong Kong.....                   | 624,336     | — 1,485,401             | — 36,603                                              | +           | 35,445     |           |
| Totals, above 35 Countries..... |      |      |      |                                  | 428,018,074 | — 306,464,937           | — 144,568,150                                         | +           | 27,081,078 |           |
| Totals, Imports.....            |      |      |      |                                  | 433,798,625 | — 314,005,707           | — 144,705,279                                         | +           | 27,414,881 |           |
| British Empire.....             |      |      |      |                                  | 140,403,886 | — 8,705,367             | — 7,408,107                                           | +           | 20,019,562 |           |
| Foreign Countries.....          |      |      |      |                                  | 293,394,739 | — 305,300,340           | — 137,297,172                                         | +           | 7,395,319  |           |

**Exports to Principal Countries.**—Figures in the following statement, as in the import statement, are indicative of the predominance of the United Kingdom and the United States as our customers. The third country, the Netherlands, takes from us only about 10 p.c. of the commodities taken by the United States. It may be noted that in the latest year the Netherlands and Belgium were our best customers on the continent of Europe, surpassing France and Germany in this respect, while Italy ranked only sixteenth as a customer compared with third in 1922. The relative positions of these countries are largely due, of course, to the attitudes taken by the various countries to imports of Canadian wheat, France, Germany and Italy all desiring to be independent of imported food supplies.

As among the Empire countries, the rise of British South Africa from sixteenth in 1922 to ninth in 1934 may be noted as of special significance, while Australia ranked sixth in 1934, as in 1922, and New Zealand was twelfth in 1934 as compared with thirteenth in 1922. In the Orient, Japan maintained fourth place in 1934, the same as twelve years earlier.



## VIII.—CANADA'S DOMESTIC EXPORTS TO FORTY LEADING COUNTRIES, 1934.

Note.—Countries arranged in order of importance, 1934.

| Rank.                           |      |      |      | Country.                         | Value of Exports, 1934. | Increases (+) or Decreases (—)<br>1934 Compared with— |              |               |
|---------------------------------|------|------|------|----------------------------------|-------------------------|-------------------------------------------------------|--------------|---------------|
| 1922                            | 1932 | 1933 | 1934 |                                  |                         | 1922.                                                 | 1932.        | 1933.         |
|                                 |      |      |      |                                  | \$                      | \$                                                    | \$           | \$            |
| 1                               | 2    | 1    | 1    | United Kingdom.....              | 227,601,411             | — 71,760,264                                          | + 53,557,686 | + 43,240,392  |
| 2                               | 1    | 2    | 2    | United States.....               | 194,443,139             | — 98,145,504                                          | + 40,743,535 | + 51,282,739  |
| 7                               | 6    | 3    | 3    | Netherlands.....                 | 19,055,271              | + 10,072,347                                          | + 6,153,114  | + 3,197,361   |
| 4                               | 4    | 6    | 4    | Japan.....                       | 13,802,760              | — 1,028,760                                           | + 2,752,930  | + 3,475,268   |
| 5                               | 5    | 4    | 5    | Belgium.....                     | 12,538,143              | + 178,843                                             | + 1,498,294  | + 1,952,796   |
| 6                               | 12   | 10   | 6    | Australia.....                   | 12,138,869              | + 1,460,269                                           | + 6,750,887  | + 4,826,295   |
| 9                               | 3    | 5    | 7    | France.....                      | 11,907,478              | + 3,699,250                                           | + 6,046,843  | + 822,748     |
| 12                              | 7    | 7    | 8    | Germany.....                     | 10,588,450              | + 6,078,903                                           | + 183,194    | + 2,531,345   |
| 16                              | 9    | 13   | 9    | British South Africa.....        | 7,680,446               | + 3,002,252                                           | + 721,050    | + 3,678,908   |
| 8                               | 10   | 11   | 10   | Newfoundland.....                | 6,130,698               | + 3,186,941                                           | + 471,154    | + 486,473     |
| 23                              | 11   | 8    | 11   | China.....                       | 5,395,970               | + 3,495,343                                           | + 512,163    | + 2,273,258   |
| 13                              | 16   | 15   | 12   | New Zealand.....                 | 4,480,219               | + 351,688                                             | + 755,994    | + 871,719     |
| 40                              | 8    | 9    | 13   | St. Pierre and Miquelon.....     | 4,346,925               | + 3,917,735                                           | + 4,295,194  | + 3,246,278   |
| 15                              | 17   | 14   | 14   | Norway.....                      | 3,912,408               | — 964                                                 | + 587,636    | + 217,073     |
| 25                              | 18   | 21   | 15   | British India.....               | 3,743,360               | + 2,106,215                                           | + 701,838    | + 1,328,774   |
| 3                               | 14   | 12   | 16   | Italy.....                       | 3,543,315               | + 11,792,503                                          | + 722,009    | + 583,047     |
| -                               | 19   | 22   | 17   | Irish Free State.....            | 3,514,785               | + 3,514,785                                           | + 853,364    | + 1,267,623   |
| 17                              | 13   | 18   | 18   | Argentina.....                   | 2,793,801               | + 439,622                                             | + 1,550,934  | + 284,216     |
| 21                              | 20   | 20   | 19   | Jamaica.....                     | 2,633,019               | + 418,855                                             | + 1,680      | + 202,609     |
| 20                              | 15   | 16   | 20   | Denmark.....                     | 2,160,467               | + 82,714                                              | + 1,715,213  | + 533,745     |
| 11                              | 24   | 24   | 21   | Trinidad and Tobago.....         | 1,997,460               | + 2,551,075                                           | + 150,177    | + 224,221     |
| 33                              | 37   | 19   | 22   | Spain.....                       | 1,822,626               | + 1,005,649                                           | + 1,256,523  | + 659,091     |
| 22                              | 32   | 27   | 23   | Brazil.....                      | 1,758,380               | + 244,069                                             | + 778,526    | + 364,150     |
| 30                              | 28   | 28   | 24   | Mexico.....                      | 1,680,766               | + 483,169                                             | + 313,819    | + 369,530     |
| 29                              | 23   | 17   | 25   | Sweden.....                      | 1,441,030               | + 220,834                                             | + 944,759    | + 1,195,370   |
| 24                              | 22   | 25   | 26   | Other British West Indies.....   | 1,353,324               | + 476,474                                             | + 1,045,048  | + 360,798     |
| 26                              | 27   | 29   | 27   | Hong Kong.....                   | 1,253,866               | + 157,833                                             | + 180,793    | + 191,623     |
| 31                              | 25   | 26   | 28   | Bermuda.....                     | 1,146,065               | + 156,952                                             | + 802,833    | + 440,937     |
| 27                              | 29   | 30   | 29   | Barbados.....                    | 1,056,146               | + 321,838                                             | + 36,279     | + 6,202       |
| 14                              | 26   | 33   | 30   | Cuba.....                        | 993,019                 | + 2,981,413                                           | + 644,657    | + 162,842     |
| 48                              | 30   | 32   | 31   | Portuguese Africa.....           | 952,519                 | + 777,490                                             | + 110,764    | + 110,073     |
| 65                              | 36   | 35   | 32   | Peru.....                        | 926,453                 | + 854,770                                             | + 298,286    | + 205,191     |
| 19                              | 33   | 34   | 33   | British Guiana.....              | 800,578                 | + 1,497,527                                           | + 22,109     | + 5,972       |
| 35                              | 47   | 40   | 34   | British Straits Settlements..... | 681,682                 | + 73,388                                              | + 341,610    | + 293,244     |
| 68                              | 53   | 37   | 35   | Hawaii.....                      | 620,675                 | + 566,115                                             | + 419,592    | + 186,135     |
| 50                              | 49   | 42   | 36   | Philippine Islands.....          | 616,979                 | + 446,158                                             | + 320,048    | + 269,611     |
| 51                              | 44   | 38   | 37   | British East Africa.....         | 525,434                 | + 357,231                                             | + 153,046    | + 116,158     |
| 56                              | 39   | 39   | 38   | Colombia.....                    | 421,184                 | + 293,985                                             | + 112,707    | + 31,888      |
| 53                              | 31   | 36   | 39   | British Honduras.....            | 256,869                 | + 105,905                                             | + 751,643    | + 409,053     |
| 98                              | 46   | 31   | 40   | French Oceania.....              | 81,940                  | + 81,890                                              | + 671,702    | + 817,866     |
| Totals, above 40 Countries..... |      |      |      |                                  | 573,397,929             | — 150,159,676                                         | + 6,965,011  | + 106,120,704 |
| Totals, Exports (Domestic)..... |      |      |      |                                  | 579,343,145             | — 160,897,535                                         | + 2,998,843  | + 105,543,190 |
| British Empire.....             |      |      |      |                                  | 278,017,978             | — 67,817,432                                          | + 59,061,591 | + 55,899,051  |
| Foreign Countries.....          |      |      |      |                                  | 301,325,167             | — 93,080,103                                          | + 56,062,748 | + 49,644,139  |

**Statistical Tables of Trade by Countries.**—Statistics showing the course of import and export trade during the latest five fiscal years, by countries with which Canada carries on trade, will be found in Tables 19 (imports) and 20 (exports). Table 21 shows by countries the values and percentages of goods imported into and exported from Canada *via* the United States for the latest two fiscal years.

A series of tables showing Canadian trade in principal commodities with the leading countries with which she trades (other than the United Kingdom and the United States, which are exhaustively dealt with in Tables 12 and 13) followed Table 21 in the 1931 Year Book. These tables have since been omitted to economize space. They will be found in the Condensed Preliminary Report on the Trade of Canada 1934, (pp. 153-188). Historical tables showing our trade with leading countries in each year since Confederation, will be found on pp. 13-19 of the Annual Report of the Trade of Canada for 1934, both volumes published by, and obtainable from, the Dominion Bureau of Statistics.

### Subsection 6.—Principal Commodities Imported and Exported.

**Canada's Principal Imports.**—Statement IX, which follows, shows the long-term trend of principal commodities imported into Canada in the fiscal years 1890, 1900, 1910, 1920, 1930 and 1934, the commodities being arranged in order of importance in 1934. In the interpretation of the trends in imports shown by the figures in this statement, the effect of price changes and of fluctuations of the so-called business cycle should be kept in mind. Thus the Bureau of Statistics' index number of wholesale prices on the 1926 base was 59.3 in the calendar year 1889, 52.1 in 1899, 59.5 in 1909, 134.0 in 1919, 95.6 in 1929 and 67.1 in 1933, these calendar years approximating to the fiscal years ended 1890, 1900, 1910, 1920, 1930 and 1934. In the matter of business fluctuations, the fiscal year 1910 was influenced by the general development boom in Western Canada, 1920 was affected by the feverish activity which immediately followed the War, 1930 represented the end of the security inflation period and the beginning of the downturn, while in 1934 the effects of the depression and price decline were still being severely felt, although there was a distinct improvement as compared with 1933.

During the period of 44 years covered by the statement, great changes have occurred in the character of the leading imports, due to developments both in the industrial organization of the country and the goods consumed by the people. Thus in 1890, many present-day leading imports such as crude petroleum, automobiles and parts, artificial silk, electric apparatus, aluminium, were either non-existent or formed very insignificant items of trade. Imports of farm implements in 1890 were valued at only \$161,000 but, due to the tremendous agricultural expansion in Canada since that time, as well as to increasing mechanization of agricultural operations, imports of farm implements have grown to a large item in spite of the wide development of their manufacture within the country. On the other hand, a number of the leading imports of 1890, such as woollen goods and raw wool, sugar and products, cotton goods and raw cotton, tea, grain products and meats, have become relatively much less important as imports. Then again, there were certain leading imports in 1890, such as coal, rolling-mill products, machinery and fruits, which still remain among the chief items of imports owing to the absence of coal and high grade iron ore deposits in the central portion of Canada, where population and industry are chiefly concentrated, and to the demand for fruits which cannot be grown in Canada.

IX.—CANADA'S LEADING IMPORTS, FISCAL YEARS 1890, 1900, 1910, 1920, 1930, 1934.

NOTE.—Commodities arranged in order of importance, 1934.

| No. | Commodity.                         | 1890.      | 1900.      | 1910.      | 1920.      | 1930.      | 1934.      |
|-----|------------------------------------|------------|------------|------------|------------|------------|------------|
|     |                                    | \$         | \$         | \$         | \$         | \$         | \$         |
| 1   | Coal.....                          | 8,013,156  | 11,012,223 | 27,516,678 | 60,072,629 | 56,812,418 | 29,201,459 |
| 2   | Crude petroleum.....               | —          | 23,244     | 1,139,071  | 20,306,693 | 50,951,202 | 25,010,663 |
| 3   | Rolling-mill products.....         | 5,645,704  | 11,905,937 | 15,692,051 | 39,985,746 | 61,943,553 | 16,533,843 |
| 4   | Fruits.....                        | 2,400,851  | 3,133,407  | 8,316,462  | 33,463,270 | 34,277,882 | 16,041,568 |
| 5   | Sugar and products.....            | 6,452,654  | 8,610,845  | 14,962,770 | 73,618,354 | 27,987,156 | 14,535,640 |
| 6   | Raw cotton.....                    | 3,539,249  | 4,229,198  | 9,384,801  | 33,854,457 | 21,682,463 | 14,343,617 |
| 7   | Alcoholic beverages.....           | 1,695,161  | 1,938,112  | 4,459,566  | 9,135,536  | 45,026,487 | 14,223,899 |
| 8   | Machinery.....                     | 1,877,551  | 5,159,952  | 14,690,873 | 36,716,791 | 69,702,213 | 13,847,326 |
| 9   | Automobile parts.....              | —          | —          | 269,586    | 12,674,823 | 35,746,929 | 13,760,242 |
| 10  | Cotton goods.....                  | 3,792,584  | 6,399,705  | 17,928,093 | 51,435,017 | 27,275,170 | 11,211,567 |
| 11  | Woollen goods (incl. carpets)..... | 10,900,600 | 9,427,575  | 20,767,010 | 45,545,127 | 32,632,927 | 9,560,085  |
| 12  | Books and printed matter.....      | 1,404,533  | 1,588,432  | 4,127,179  | 11,228,018 | 18,130,779 | 7,372,627  |
| 13  | Tea.....                           | 3,073,643  | 3,604,027  | 5,347,854  | 8,336,163  | 10,694,379 | 7,389,717  |
| 14  | Flax, hemp and jute.....           | 1,416,217  | 3,551,037  | 5,340,312  | 15,923,836 | 14,995,198 | 7,295,514  |
| 15  | Petroleum, refined.....            | 690,283    | 830,025    | 2,326,681  | 10,566,692 | 25,180,476 | 6,929,314  |

IX.—CANADA'S LEADING IMPORTS, FISCAL YEARS 1890, 1900, 1910, 1920, 1930, 1934.  
—concluded.

| No. | Commodity.                        | 1890.     | 1900.     | 1910.      | 1920.      | 1930.      | 1934.     |
|-----|-----------------------------------|-----------|-----------|------------|------------|------------|-----------|
|     |                                   | \$        | \$        | \$         | \$         | \$         | \$        |
| 16  | Vegetable oil.....                | 612,671   | 826,882   | 1,862,265  | 15,973,417 | 12,244,151 | 6,128,311 |
| 17  | Electric apparatus.....           | 317,515   | 810,900   | 3,688,538  | 15,550,254 | 37,611,263 | 5,915,024 |
| 18  | Rubber and products.....          | 1,512,427 | 2,942,044 | 6,151,157  | 18,059,435 | 20,025,316 | 5,895,084 |
| 19  | Grain and grain products.....     | 3,034,049 | 8,298,884 | 7,806,665  | 9,086,073  | 25,082,671 | 5,499,468 |
| 20  | Engines and boilers.....          | 188,759   | 778,364   | 2,019,558  | 12,997,757 | 15,146,437 | 5,417,082 |
| 21  | Nails, tops and waste wool.....   | 12,100    | 151,510   | 599,446    | 5,830,957  | 3,833,801  | 5,339,912 |
| 22  | Paper.....                        | 1,208,683 | 1,378,749 | 4,567,810  | 9,949,574  | 14,764,904 | 5,242,168 |
| 23  | Clay and products.....            | 948,876   | 1,593,255 | 3,418,844  | 6,371,567  | 12,256,769 | 5,178,936 |
| 24  | Furs.....                         | 1,058,001 | 2,106,441 | 5,768,075  | 12,877,520 | 11,953,949 | 5,046,441 |
| 25  | Dyeing and tanning materials..... | 484,217   | 711,508   | 1,412,099  | 5,623,720  | 3,548,656  | 4,843,532 |
| 26  | Raw silk.....                     | 193,529   | 277,708   | 393,011    | 3,090,845  | 8,360,968  | 4,534,132 |
| 27  | Glass and glassware.....          | 1,268,314 | 1,658,694 | 2,932,104  | 6,926,459  | 10,453,706 | 4,365,240 |
| 28  | Leather.....                      | 1,173,777 | 1,879,333 | 4,202,934  | 17,102,702 | 11,537,331 | 4,015,475 |
| 29  | Vegetables.....                   | 337,859   | 625,749   | 1,751,265  | 5,722,600  | 11,040,765 | 3,818,476 |
| 30  | Raw wool.....                     | 1,729,058 | 1,574,834 | 1,587,175  | 2,672,211  | 4,308,945  | 3,747,155 |
| 31  | Settlers' effects.....            | 1,810,217 | 3,065,410 | 10,273,428 | 10,181,034 | 11,181,203 | 3,714,401 |
| 32  | Woolen yarn.....                  | 117,729   | 402,328   | 1,671,765  | 4,445,270  | 5,870,353  | 3,273,695 |
| 33  | Coffee, green.....                | 591,158   | 491,148   | 1,194,061  | 11,071,079 | 5,924,635  | 3,186,465 |
| 34  | Wood, unmanufactured.....         | 1,444,727 | 3,775,240 | 8,324,585  | 14,112,391 | 15,348,150 | 3,172,625 |
| 35  | Hides and skins, raw.....         | 1,703,093 | 4,214,012 | 8,235,819  | 22,654,661 | 8,402,075  | 3,159,646 |
| 36  | Artificial silk.....              | -         | -         | -          | -          | 13,418,910 | 3,003,250 |
| 37  | Aluminium.....                    | 159       | 12,543    | 794,490    | 2,747,385  | 6,058,864  | 2,967,437 |
| 38  | Coke.....                         | 155,513   | 506,839   | 1,695,603  | 2,476,450  | 6,403,354  | 2,921,707 |
| 39  | Silk goods.....                   | 2,654,505 | 3,880,535 | 5,690,829  | 31,341,944 | 19,202,541 | 2,826,851 |
| 40  | Paints and varnishes.....         | 672,885   | 1,012,535 | 1,376,023  | 3,821,880  | 5,957,078  | 2,723,858 |
| 41  | Nuts, edible.....                 | 231,449   | 400,441   | 1,237,292  | 5,889,573  | 5,095,109  | 2,713,675 |
| 42  | Drugs and medicines.....          | 513,331   | 451,359   | 962,033    | 3,402,932  | 3,808,721  | 2,621,563 |
| 43  | Wood, manufactured.....           | 1,358,230 | 824,195   | 3,085,079  | 7,893,284  | 12,711,307 | 2,570,567 |
| 44  | Sulphur.....                      | 44,276    | 215,433   | 430,632    | 1,296,455  | 3,823,245  | 2,559,159 |
| 45  | Cotton yarn.....                  | 17,879    | 321,348   | 767,760    | 4,078,510  | 3,827,867  | 2,511,890 |
| 46  | Manila, sisal, istle, etc.....    | -         | -         | 1,548,457  | 5,195,812  | 3,822,613  | 2,379,135 |
| 47  | Farm implements.....              | 161,277   | 2,148,867 | 2,661,207  | 14,578,106 | 30,075,453 | 2,283,771 |
| 48  | Stone and products.....           | 862,037   | 1,029,711 | 1,773,953  | 3,687,702  | 8,702,988  | 2,201,137 |
| 49  | Soda and soda compounds.....      | 329,984   | 624,873   | 785,524    | 2,982,371  | 4,410,621  | 2,179,827 |
| 50  | Tobacco, raw.....                 | 1,344,985 | 1,508,359 | 3,229,239  | 13,604,757 | 6,471,626  | 2,147,001 |
| 51  | Hardware and cutlery.....         | 1,250,369 | 1,434,209 | 1,987,647  | 4,210,142  | 4,950,119  | 1,996,244 |
| 52  | Fertilizers.....                  | 14,444    | 88,974    | 5,395,423  | 1,796,752  | 5,033,592  | 1,989,498 |
| 53  | Brass and products.....           | 554,545   | 851,606   | 2,228,215  | 4,531,015  | 7,000,455  | 1,699,857 |
| 54  | Gums and resins.....              | 159,508   | 287,276   | 2,256,307  | 4,987,716  | 3,431,591  | 1,573,726 |
| 55  | Cocoa and chocolate.....          | 118,569   | 286,363   | 1,130,335  | 7,626,745  | 3,651,425  | 1,472,174 |
| 56  | Automobiles.....                  | -         | -         | 1,732,215  | 15,035,545 | 34,464,666 | 1,395,619 |
| 57  | Fish.....                         | 899,683   | 1,060,708 | 1,630,744  | 3,491,678  | 3,474,921  | 1,281,299 |
| 58  | Seeds.....                        | 478,397   | 1,916,994 | 1,167,321  | 4,210,782  | 5,061,255  | 1,149,847 |
| 59  | Celluloid in lumps.....           | 18,311    | 27,136    | 120,002    | 743,856    | 2,042,941  | 1,143,846 |
| 60  | Animals, living.....              | 837,385   | 841,168   | 1,711,723  | 2,570,377  | 2,802,754  | 1,030,439 |
| 61  | Clocks and watches.....           | 773,538   | 698,378   | 1,459,617  | 3,126,267  | 3,495,659  | 1,024,092 |
| 62  | Stamped and coated products.....  | 42,042    | 268,545   | 492,884    | 1,016,777  | 2,349,230  | 984,413   |
| 63  | Tools.....                        | 427,305   | 825,541   | 891,820    | 2,050,286  | 3,192,449  | 967,225   |
| 64  | Wire (iron).....                  | 387,490   | 1,844,788 | 3,530,226  | 5,843,623  | 3,658,798  | 923,493   |
| 65  | Surgical instruments.....         | 25,186    | 103,740   | 209,302    | 1,137,567  | 1,937,334  | 913,269   |
| 66  | Tubes and pipe (iron).....        | 484,008   | 1,122,987 | 2,358,848  | 4,160,378  | 5,948,162  | 855,444   |
| 67  | Meats.....                        | 1,632,143 | 1,371,184 | 4,427,901  | 22,100,333 | 7,599,473  | 832,644   |
| 68  | Spices.....                       | 213,677   | 242,597   | 428,905    | 1,130,902  | 1,478,575  | 705,091   |
| 69  | Hats and caps.....                | 1,258,409 | 1,637,422 | 3,420,609  | 4,216,333  | 2,908,340  | 665,187   |
| 70  | Salt.....                         | 309,840   | 325,433   | 465,253    | 1,336,176  | 897,925    | 659,535   |
| 71  | Plants and trees.....             | 136,326   | 28,510    | 178,470    | 709,507    | 1,913,447  | 633,141   |
| 72  | Nickel plated ware.....           | 13,578    | 18,843    | 573,591    | 1,630,047  | 3,022,935  | 625,652   |
| 73  | Copper and products.....          | 494,189   | 1,271,270 | 3,488,260  | 8,568,035  | 14,898,632 | 497,919   |
| 74  | Butter.....                       | 62,212    | 290,220   | 92,934     | 176,994    | 14,471,688 | 413,949   |
| 75  | Iron ore.....                     | 551       | 282,191   | 3,345,550  | 4,601,716  | 5,020,921  | 402,034   |
| 76  | Diamonds, unset.....              | 110,480   | 451,792   | 1,902,710  | 4,470,846  | 3,193,871  | 388,126   |
| 77  | Soap.....                         | 148,618   | 446,135   | 813,619    | 1,534,082  | 1,316,418  | 381,189   |
| 78  | Musical instruments.....          | 434,814   | 390,407   | 1,207,592  | 4,329,093  | 3,130,873  | 347,596   |
| 79  | Optical instruments.....          | 40,515    | 181,852   | 575,929    | 947,075    | 1,391,045  | 338,342   |

Canada's Principal Exports.—Statement X, which follows, gives Canada's leading domestic exports for the fiscal years ended 1890, 1900, 1910, 1920, 1930 and 1934, arranged in descending order of importance in 1934. In the interpretation of these figures of the main commodities exported the same qualifications should



apply regarding price changes and business fluctuations as cited above in the case of imports.

Over the period of 44 years covered by the statement, the changes in Canada's exports have been very great, both in volume and in the relative importance of commodities. The great agricultural expansion of the Canadian West had scarcely begun in 1890. The leading exports then were sawmill and timber products, cheese, fish, cattle, barley, coal and furs—indicating the large dependence of Canadian production at that time upon the eastern forests, mixed-farming areas, and fisheries. Of the five leading exports in 1934 four were very unimportant in 1890. The year 1910 is the earliest year in the statement in which wheat appears as the leading export, although this first occurred in 1906. The rise of the great pulp and paper industry to a leading position has been still more recent, and similarly with regard to the production of non-ferrous metals, automobiles and rubber tires. On the other hand, exports of the products of mixed-farming operations, such as cattle, hides, cheese and butter, while showing wide fluctuations, have not expanded proportionately, and in some cases were very little or no greater in 1934 than in 1890. Much of the new agricultural area developed since 1890 has been better adapted to grain growing than to mixed-farming operations, so that, owing to the growth of population, the production of the older mixed-farming districts is to a larger extent consumed within the country. The rising importance during the past two decades of the mining and metallurgical industries producing non-ferrous metals in Canada is illustrated in this statement by the increased importance since 1910 of exports of copper, nickel, zinc, silver, lead, aluminium and platinum. Gold refined in Canada and exported as bullion is not shown in the table.

X.—CANADA'S LEADING DOMESTIC EXPORTS, FISCAL YEARS 1890, 1900, 1910, 1920, 1930, 1934

NOTE.—Commodities arranged in order of importance, 1934.

| No. | Commodity.                   | 1890.      | 1900.      | 1910.      | 1920.       | 1930.       | 1934.       |
|-----|------------------------------|------------|------------|------------|-------------|-------------|-------------|
|     |                              | \$         | \$         | \$         | \$          | \$          | \$          |
| 1   | Wheat.....                   | 388,861    | 11,995,488 | 52,609,351 | 185,044,806 | 215,753,475 | 118,969,445 |
| 2   | Newsprint paper.....         | —          | —          | 2,612,243  | 53,640,132  | 145,610,519 | 73,238,482  |
| 3   | Nickel.....                  | —          | 1,040,498  | 3,320,054  | 9,039,221   | 25,034,975  | 28,198,238  |
| 4   | Wood pulp.....               | 168,180    | 1,816,016  | 5,204,597  | 41,383,482  | 44,704,958  | 25,102,381  |
| 5   | Planks and boards.....       | 17,637,308 | 22,015,990 | 33,100,387 | 75,216,193  | 49,446,887  | 21,258,286  |
| 6   | Fish.....                    | 8,099,674  | 10,564,688 | 15,179,015 | 40,687,172  | 34,767,739  | 20,304,933  |
| 7   | Wheat flour.....             | 521,383    | 2,791,885  | 14,859,854 | 94,262,922  | 45,457,195  | 19,729,782  |
| 8   | Whiskey.....                 | 25,383     | 396,671    | 1,010,657  | 1,504,132   | 25,856,136  | 16,028,484  |
| 9   | Meats.....                   | 895,757    | 13,615,621 | 8,013,680  | 96,161,234  | 15,030,671  | 15,503,994  |
| 10  | Copper bars, etc.....        | —          | —          | —          | 541,338     | 48,181      | 15,254,562  |
| 11  | Fruits, chiefly apples.....  | 1,073,890  | 3,305,662  | 5,492,197  | 8,347,549   | 9,593,484   | 14,607,881  |
| 12  | Furs, raw.....               | 1,874,327  | 2,264,580  | 3,749,005  | 20,628,109  | 18,706,311  | 14,030,007  |
| 13  | Automobiles.....             | —          | —          | 405,011    | 14,883,607  | 35,307,645  | 11,454,088  |
| 14  | Cheese.....                  | 9,372,212  | 19,856,324 | 21,607,692 | 36,336,863  | 18,278,004  | 8,176,271   |
| 15  | Zinc.....                    | —          | —          | —          | 950,082     | 8,366,712   | 6,284,375   |
| 16  | Aluminium in bars, etc.....  | —          | —          | 1,202,723  | 5,680,871   | 13,828,010  | 6,174,995   |
| 17  | Lead.....                    | 2,000      | 688,691    | 529,422    | 1,193,144   | 10,637,887  | 5,902,332   |
| 18  | Silver ore and bullion.....  | 201,615    | 1,354,053  | 15,009,937 | 14,255,601  | 11,569,855  | 5,686,890   |
| 19  | Asbestos, raw.....           | 444,159    | 490,909    | 1,886,613  | 8,767,856   | 12,074,005  | 5,494,002   |
| 20  | Vegetables.....              | 597,074    | 503,993    | 1,534,228  | 11,656,483  | 11,240,747  | 4,911,728   |
| 21  | Pulpwood.....                | 80,005     | 902,772    | 6,076,628  | 8,454,803   | 10,860,209  | 4,883,318   |
| 22  | Rubber tires.....            | —          | —          | —          | 7,395,172   | 18,153,225  | 4,307,374   |
| 23  | Cattle.....                  | 6,949,417  | 8,704,523  | 10,792,156 | 46,064,631  | 13,119,462  | 3,965,767   |
| 24  | Stone and products.....      | 949,158    | 575,749    | 955,636    | 3,531,916   | 6,909,442   | 3,930,937   |
| 25  | Shingles (wood).....         | 340,872    | 1,131,506  | 2,331,443  | 10,848,602  | 6,704,494   | 3,764,418   |
| 26  | Fertilizers.....             | 4,291      | 51,410     | 371,315    | 6,694,037   | 7,990,313   | 3,474,192   |
| 27  | Copper ore and blister.....  | 133,251    | 1,387,388  | 6,023,925  | 11,871,039  | 37,735,413  | 3,355,866   |
| 28  | Sodium compounds.....        | —          | —          | —          | —           | 4,208,518   | 3,314,348   |
| 29  | Leather, unmanufactured..... | 727,087    | 1,535,440  | 1,296,480  | 11,742,268  | 6,496,951   | 3,289,695   |
| 30  | Rubber footwear.....         | —          | —          | 129,618    | 1,750,967   | 9,956,392   | 3,202,929   |
| 31  | Acids.....                   | 5,545      | 67         | —          | 901,397     | 5,096,529   | 3,190,794   |
| 32  | Settlers' effects.....       | 818,001    | 1,095,536  | 2,274,005  | 7,631,498   | 6,304,199   | 3,128,615   |



## X.—CANADA'S LEADING DOMESTIC EXPORTS, FISCAL YEARS 1890, 1900, 1910, 1920, 1930, 1934—concluded.

| No. | Commodity.                          | 1890.     | 1900.      | 1910.     | 1920.      | 1930.      | 1934.     |
|-----|-------------------------------------|-----------|------------|-----------|------------|------------|-----------|
|     |                                     | \$        | \$         | \$        | \$         | \$         | \$        |
| 33  | Malt.....                           | 150,380   | 10,939     | 11,328    | 1,320,773  | 64,736     | 3,017,394 |
| 34  | Cereal foods.....                   | —         | —          | 1,689,648 | 1,087,901  | 2,431,137  | 2,981,706 |
| 35  | Pigs, ingots, etc., iron.....       | —         | 137,651    | 228,183   | 6,595,688  | 4,727,137  | 2,937,512 |
| 36  | Machinery.....                      | 143,815   | 446,391    | 924,510   | 6,416,591  | 7,154,706  | 2,923,526 |
| 37  | Films.....                          | —         | —          | 7,746     | 1,486,079  | 4,790,619  | 2,713,905 |
| 38  | Logs.....                           | 682,572   | 760,416    | 999,681   | 1,819,083  | 3,677,917  | 2,679,474 |
| 39  | Electrical energy.....              | —         | —          | —         | —          | 4,028,154  | 2,641,110 |
| 40  | Gold, raw.....                      | 657,022   | 14,148,543 | 6,016,126 | 5,974,334  | 34,375,003 | 2,629,346 |
| 41  | Hides and skins, raw.....           | 506,402   | 1,396,907  | 5,508,185 | 19,762,646 | 7,730,914  | 2,590,163 |
| 42  | Platinum concentrates.....          | —         | —          | 61,717    | 39,058     | 357,748    | 2,110,949 |
| 43  | Tobacco leaf.....                   | 234       | 3,661      | 76,564    | 130,264    | 1,504,264  | 2,110,265 |
| 44  | Paper board.....                    | —         | —          | —         | 4,568,066  | 2,506,496  | 2,092,037 |
| 45  | Electrical apparatus.....           | —         | —          | 27,743    | 424,474    | 2,521,045  | 2,023,985 |
| 46  | Bran and shorts.....                | 86,225    | 145,206    | 1,842,620 | 2,983,843  | 2,582,484  | 2,015,610 |
| 47  | Milk, preserved.....                | —         | —          | 541,372   | 8,617,771  | 3,262,101  | 1,853,897 |
| 48  | Farm implements.....                | 367,198   | 1,692,155  | 4,319,385 | 11,614,400 | 18,396,688 | 1,819,826 |
| 49  | Oats.....                           | 256,156   | 2,143,179  | 1,566,612 | 9,349,455  | 4,055,855  | 1,747,650 |
| 50  | Petroleum products.....             | 15,812    | 1,653      | 1,155     | 1,176,644  | 2,527,178  | 1,734,940 |
| 51  | Timber, square.....                 | 4,353,870 | 2,013,746  | 934,723   | 2,148,162  | 4,235,309  | 1,716,051 |
| 52  | Oatmeal and rolled oats.....        | 254,857   | 474,991    | 1,123,861 | 4,283,772  | 2,440,968  | 1,705,451 |
| 53  | Seeds.....                          | 182,200   | 322,652    | 4,602,797 | 9,915,391  | 3,237,774  | 1,680,395 |
| 54  | Sugar and products.....             | 18,101    | 100,108    | 153,357   | 30,695,005 | 4,798,712  | 1,568,353 |
| 55  | Rye.....                            | 220,761   | 279,286    | 84,658    | 3,475,834  | 1,451,640  | 1,513,598 |
| 56  | Automobile parts.....               | —         | —          | —         | 3,097,466  | 2,298,742  | 1,444,515 |
| 57  | Hardware.....                       | 84,109    | 278,054    | 100,085   | 7,730,826  | 1,743,096  | 1,363,473 |
| 58  | Coal.....                           | 2,447,936 | 4,599,602  | 5,013,221 | 13,183,666 | 3,998,692  | 1,093,631 |
| 59  | Sausage casings.....                | —         | —          | —         | 564,222    | 955,933    | 1,046,010 |
| 60  | Brass.....                          | —         | —          | —         | 1,644,157  | 2,332,962  | 1,002,979 |
| 61  | Butter.....                         | 340,131   | 5,122,156  | 1,010,274 | 9,844,359  | 543,851    | 818,996   |
| 62  | Tubes and pipe, iron.....           | —         | —          | —         | 2,325,369  | 2,202,769  | 750,397   |
| 63  | Binder twine.....                   | —         | —          | —         | 5,530,908  | 1,502,821  | 705,496   |
| 64  | Barley.....                         | 4,600,409 | 1,010,425  | 1,107,732 | 20,206,972 | 10,388,735 | 658,747   |
| 65  | Poles, telegraph and telephone..... | 92,326    | 36,891     | 56,177    | 206,834    | 3,917,536  | 569,495   |
| 66  | Wrapping paper.....                 | —         | —          | 9,098     | 2,917,197  | 1,655,568  | 519,662   |
| 67  | Ale, beer and porter.....           | 10,347    | 6,272      | 2,687     | 145,077    | 1,995,990  | 435,546   |
| 68  | Stationery.....                     | —         | —          | 23,380    | 276,224    | 602,170    | 435,070   |
| 69  | Laths, wood.....                    | 392,500   | 749,301    | 1,882,950 | 3,668,511  | 3,095,417  | 425,616   |
| 70  | Hay.....                            | 1,068,554 | 1,414,109  | 1,805,849 | 4,087,670  | 2,007,944  | 295,232   |
| 71  | Milk and cream, fresh.....          | —         | —          | —         | 1,699,090  | 5,379,174  | 36,995    |

## Subsection 7.—Proportions of Trade in Raw and Manufactured Products.

The stage attained in the industrial development of a country is indicated by the character of the goods it imports and exports. In the early years of Canada's development the imports were made up chiefly of manufactured products and the exports of raw and semi-manufactured products. Since the opening of the twentieth century this has been almost reversed, a large percentage of the imports consisting of raw and semi-manufactured products for use in Canadian manufacturing industries, and the exports consisting predominantly of products which have undergone some process of manufacture. In fact, the leading manufactures of Canada are for the processing of raw materials in the production of which Canada excels, and many of these processed domestic products are marketed abroad. Furthermore, as the population of the country grows, the range of elaborated goods formerly imported which may be manufactured on a competitive basis of mass production within the country expands, so that there are now many industries in Canada, serving the domestic and even foreign markets, using imported raw materials such as rubber, cotton and sugar. Since the opening of the present century, Canada has passed through much the same stages of development in her economic life as did the United States during the last quarter of the nineteenth century, although

the trend in Canada has been more pronounced in increasing the proportion of partly and fully manufactured goods as compared with raw materials exported, rather than in increasing the proportion of raw materials compared with that of partly and fully manufactured goods imported. Since 1929, the rapid decline in commodity prices, which has affected raw materials more than manufactured goods, has tended to increase the percentages of both imports and exports of manufactures.

Statement XI shows how Canada's imports and exports, analysed into the three categories of raw materials, partly manufactured goods, and fully or chiefly manufactured goods, are distributed among the continents and leading countries of the world. The close of the analysis demonstrates that the imports into Canada from the British Empire except the United Kingdom, consist chiefly of raw and semi-manufactured products, while the exports to "other Empire" are made up mainly of fully manufactured products (81.8 p.c. in 1934).

In trade with industrialized continents, such as Europe and Asia, Canadian imports are largely manufactured goods and our exports raw materials or partly manufactured goods, while in trade with South America, Oceania, Africa and North America (if the United States be excluded) the situation is the reverse.

See also Table 15 of this chapter on this subject.

XI.—CANADA'S IMPORTS AND EXPORTS, BY CONTINENTS AND LEADING COUNTRIES, ACCORDING TO DEGREE OF MANUFACTURE, YEAR ENDED MAR. 31, 1934.

NOTE.—Values in millions of dollars. Totals for continents include trade with countries other than those specified. Figures are preliminary.

| Continent and Country.   | Imports.       |                    |                      |                    |                     |                    | Exports (Domestic). |                    |                      |                    |                     |                    |
|--------------------------|----------------|--------------------|----------------------|--------------------|---------------------|--------------------|---------------------|--------------------|----------------------|--------------------|---------------------|--------------------|
|                          | Raw Materials. |                    | Partly Manufactured. |                    | Fully Manufactured. |                    | Raw Materials.      |                    | Partly Manufactured. |                    | Fully Manufactured. |                    |
|                          | Value.         | Per cent of Total. | Value.               | Per cent of Total. | Value.              | Per cent of Total. | Value.              | Per cent of Total. | Value.               | Per cent of Total. | Value.              | Per cent of Total. |
|                          | \$             | p.c.               | \$                   | p.c.               | \$                  | p.c.               | \$                  | p.c.               | \$                   | p.c.               | \$                  | p.c.               |
| <b>EUROPE.</b>           |                |                    |                      |                    |                     |                    |                     |                    |                      |                    |                     |                    |
| Belgium.....             | 0.2            | 5.5                | 0.5                  | 15.0               | 2.5                 | 79.5               | 10.6                | 87.8               | 1.5                  | 11.9               | 0.4                 | 3.3                |
| Czechoslovakia.....      | 0.1            | 9.1                | —                    | 1.6                | 1.3                 | 89.3               | —                   | —                  | —                    | 9.7                | 0.1                 | 90.3               |
| Denmark.....             | —              | 8.2                | 0.2                  | 82.3               | —                   | 9.5                | 1.2                 | 53.4               | 0.2                  | 9.2                | 0.8                 | 37.4               |
| France.....              | 0.6            | 8.0                | 0.2                  | 2.8                | 6.2                 | 89.2               | 8.1                 | 68.4               | 1.8                  | 15.0               | 2.0                 | 16.6               |
| Germany.....             | 0.8            | 7.7                | 0.8                  | 8.2                | 8.3                 | 84.1               | 6.9                 | 65.3               | 3.0                  | 28.4               | 0.7                 | 6.3                |
| Irish Free State.....    | —              | 56.2               | —                    | —                  | —                   | 43.8               | 1.5                 | 41.4               | 0.1                  | 3.7                | 1.9                 | 54.9               |
| Italy.....               | 0.7            | 28.2               | 0.2                  | 7.8                | 1.7                 | 64.0               | 1.7                 | 47.2               | 0.7                  | 19.4               | 1.2                 | 33.4               |
| Netherlands.....         | 0.7            | 22.1               | 0.2                  | 5.2                | 2.4                 | 72.7               | 12.2                | 62.0               | 6.5                  | 32.8               | 1.0                 | 5.2                |
| Norway.....              | —              | 6.4                | —                    | 6.6                | 0.5                 | 87.0               | 3.0                 | 75.8               | 0.1                  | 3.6                | 0.8                 | 20.6               |
| Spain.....               | 0.2            | 18.3               | 0.1                  | 10.4               | 0.8                 | 71.3               | —                   | 0.8                | —                    | 2.5                | 1.8                 | 96.7               |
| Sweden.....              | 0.1            | 4.8                | 0.1                  | 4.6                | 1.0                 | 90.6               | 0.8                 | 52.4               | 0.2                  | 16.9               | 0.4                 | 30.7               |
| Switzerland.....         | 0.1            | 1.9                | —                    | 0.2                | 2.7                 | 97.4               | —                   | 0.4                | —                    | 7.9                | 0.3                 | 81.7               |
| United Kingdom.....      | 13.0           | 12.3               | 7.1                  | 6.8                | 85.0                | 80.6               | 114.7               | 50.4               | 42.3                 | 18.6               | 70.6                | 31.0               |
| Totals, Europe.....      | 16.7           | 11.9               | 9.5                  | 6.8                | 112.9               | 81.6               | 161.0               | 53.7               | 56.6                 | 18.8               | 82.4                | 27.5               |
| <b>N. AMERICA.</b>       |                |                    |                      |                    |                     |                    |                     |                    |                      |                    |                     |                    |
| British West Indies..... | 3.6            | 39.4               | 3.5                  | 38.5               | 2.0                 | 22.1               | 0.3                 | 4.2                | 0.4                  | 6.1                | 6.3                 | 89.7               |
| Mexico.....              | 0.3            | 72.8               | 0.1                  | 13.1               | 0.1                 | 14.1               | —                   | 0.4                | 0.1                  | 6.2                | 1.6                 | 93.4               |
| Newfoundland.....        | 0.2            | 32.2               | —                    | 0.2                | 0.4                 | 67.6               | 1.2                 | 19.7               | —                    | 0.8                | 4.9                 | 79.5               |
| St. Pierre-Miquelon..... | —              | 2.1                | —                    | —                  | 0.2                 | 97.9               | 0.1                 | 1.9                | —                    | 0.4                | 4.2                 | 97.7               |
| United States.....       | 90.4           | 37.9               | 14.4                 | 6.1                | 133.4               | 56.0               | 40.8                | 21.0               | 52.7                 | 27.1               | 101.0               | 51.9               |
| Totals, N. America.....  | 96.0           | 38.2               | 18.9                 | 7.5                | 136.4               | 54.3               | 43.3                | 19.9               | 53.5                 | 24.6               | 120.8               | 55.5               |

XI.—CANADA'S IMPORTS AND EXPORTS, BY CONTINENTS AND LEADING COUNTRIES, ACCORDING TO DEGREE OF MANUFACTURE, YEAR ENDED MAR. 31, 1934—concluded.

NOTE.—Values in millions of dollars. Totals for continents include trade with countries other than those specified. Figures are preliminary.

| Continent and Country.                      | Imports.       |                    |                      |                    |                     |                    | Exports (Domestic). |                    |                      |                    |                     |                    |
|---------------------------------------------|----------------|--------------------|----------------------|--------------------|---------------------|--------------------|---------------------|--------------------|----------------------|--------------------|---------------------|--------------------|
|                                             | Raw Materials. |                    | Partly Manufactured. |                    | Fully Manufactured. |                    | Raw Materials.      |                    | Partly Manufactured. |                    | Fully Manufactured. |                    |
|                                             | Value.         | Per cent of Total. | Value.               | Per cent of Total. | Value.              | Per cent of Total. | Value.              | Per cent of Total. | Value.               | Per cent of Total. | Value.              | Per cent of Total. |
| <b>S. AMERICA.</b>                          | \$             | p.c.               | \$                   | p.c.               | \$                  | p.c.               | \$                  | p.c.               | \$                   | p.c.               | \$                  | p.c.               |
| Argentina.....                              | 1.6            | 76.3               | —                    | 0.1                | 0.5                 | 23.6               | —                   | 1.7                | 0.3                  | 9.8                | 2.5                 | 88.5               |
| Brazil.....                                 | 0.6            | 90.4               | —                    | —                  | 0.1                 | 9.6                | 0.2                 | 10.4               | 0.3                  | 17.5               | 1.3                 | 72.1               |
| British Guiana.....                         | —              | 3.2                | 1.2                  | 84.4               | 0.2                 | 12.4               | 0.1                 | 11.5               | —                    | 3.5                | 0.7                 | 85.0               |
| Colombia.....                               | 3.6            | 99.9               | —                    | —                  | —                   | 0.1                | 0.1                 | 21.8               | —                    | 0.5                | 0.3                 | 77.7               |
| Peru.....                                   | 3.4            | 95.4               | —                    | —                  | 0.2                 | 4.6                | 0.3                 | 31.1               | 0.2                  | 23.2               | 0.4                 | 45.7               |
| <b>Totals, S. America....</b>               | <b>9.6</b>     | <b>83.5</b>        | <b>1.2</b>           | <b>10.1</b>        | <b>0.9</b>          | <b>6.4</b>         | <b>1.0</b>          | <b>11.9</b>        | <b>0.9</b>           | <b>11.3</b>        | <b>6.0</b>          | <b>76.8</b>        |
| <b>ASIA.</b>                                |                |                    |                      |                    |                     |                    |                     |                    |                      |                    |                     |                    |
| British India.....                          | 0.3            | 5.6                | —                    | 0.3                | 5.6                 | 94.1               | —                   | 0.2                | 1.4                  | 38.2               | 2.3                 | 61.6               |
| Ceylon.....                                 | —              | 2.8                | 0.1                  | 6.6                | 1.3                 | 90.6               | —                   | 0.9                | —                    | —                  | 0.1                 | 99.1               |
| China.....                                  | 0.8            | 33.8               | 0.6                  | 27.0               | 0.9                 | 39.2               | 0.5                 | 9.1                | 2.7                  | 50.4               | 2.2                 | 40.5               |
| Japan.....                                  | 0.9            | 26.5               | 0.1                  | 2.9                | 2.3                 | 70.6               | 4.3                 | 31.0               | 6.5                  | 46.8               | 3.0                 | 22.2               |
| <b>Totals, Asia.....</b>                    | <b>3.2</b>     | <b>19.8</b>        | <b>1.3</b>           | <b>8.0</b>         | <b>11.7</b>         | <b>72.2</b>        | <b>4.9</b>          | <b>18.5</b>        | <b>10.7</b>          | <b>41.0</b>        | <b>10.7</b>         | <b>40.5</b>        |
| <b>OCEANIA.</b>                             |                |                    |                      |                    |                     |                    |                     |                    |                      |                    |                     |                    |
| Australia.....                              | 0.9            | 16.3               | 2.1                  | 38.8               | 2.4                 | 44.9               | 0.7                 | 5.4                | 1.7                  | 14.3               | 9.7                 | 80.2               |
| Fiji.....                                   | —              | —                  | 1.6                  | 99.9               | —                   | 0.1                | —                   | 1.1                | —                    | 25.6               | 0.1                 | 73.3               |
| New Zealand.....                            | 2.0            | 78.2               | 0.4                  | 14.8               | 0.2                 | 7.0                | 0.3                 | 5.9                | 0.1                  | 1.8                | 4.1                 | 92.3               |
| <b>Totals, Oceania.....</b>                 | <b>2.9</b>     | <b>30.2</b>        | <b>4.1</b>           | <b>42.6</b>        | <b>2.6</b>          | <b>27.2</b>        | <b>0.9</b>          | <b>5.4</b>         | <b>1.9</b>           | <b>10.7</b>        | <b>14.7</b>         | <b>83.9</b>        |
| <b>AFRICA.</b>                              |                |                    |                      |                    |                     |                    |                     |                    |                      |                    |                     |                    |
| British East Africa.....                    | 0.8            | 91.2               | —                    | 1.5                | 0.1                 | 7.3                | —                   | 0.4                | —                    | —                  | 0.5                 | 99.6               |
| British South Africa.....                   | 0.2            | 4.3                | 3.4                  | 92.0               | 0.1                 | 3.7                | 0.2                 | 2.2                | 0.4                  | 5.6                | 6.7                 | 92.2               |
| <b>Totals, Africa.....</b>                  | <b>2.1</b>     | <b>36.3</b>        | <b>3.5</b>           | <b>59.6</b>        | <b>0.2</b>          | <b>4.1</b>         | <b>0.4</b>          | <b>3.6</b>         | <b>0.5</b>           | <b>5.4</b>         | <b>9.1</b>          | <b>91.0</b>        |
| <b>Grand Totals.....</b>                    | <b>130.5</b>   | <b>30.1</b>        | <b>38.5</b>          | <b>8.9</b>         | <b>264.7</b>        | <b>61.6</b>        | <b>211.5</b>        | <b>36.5</b>        | <b>124.1</b>         | <b>21.4</b>        | <b>243.7</b>        | <b>42.1</b>        |
| <b>BRITISH EMPIRE.</b>                      |                |                    |                      |                    |                     |                    |                     |                    |                      |                    |                     |                    |
| United Kingdom.....                         | 13.0           | 12.3               | 7.1                  | 6.8                | 85.0                | 80.9               | 114.7               | 50.4               | 42.3                 | 18.6               | 70.6                | 31.0               |
| Other Br. Empire.....                       | 9.2            | 26.3               | 12.7                 | 36.0               | 13.3                | 37.7               | 4.8                 | 9.3                | 4.5                  | 8.9                | 41.1                | 81.8               |
| <b>Totals, Br. Empire....</b>               | <b>22.2</b>    | <b>15.8</b>        | <b>19.8</b>          | <b>14.1</b>        | <b>98.3</b>         | <b>70.1</b>        | <b>119.5</b>        | <b>42.9</b>        | <b>46.8</b>          | <b>16.9</b>        | <b>111.7</b>        | <b>40.2</b>        |
| <b>FOREIGN COUNTRIES.</b>                   |                |                    |                      |                    |                     |                    |                     |                    |                      |                    |                     |                    |
| United States.....                          | 90.4           | 37.9               | 14.4                 | 6.1                | 133.4               | 56.0               | 40.8                | 21.0               | 52.7                 | 27.1               | 101.0               | 51.9               |
| Other foreign countries..                   | 17.9           | 32.7               | 4.3                  | 7.8                | 33.0                | 59.5               | 51.2                | 47.9               | 24.6                 | 23.1               | 31.0                | 29.0               |
| <b>Totals, Foreign Coun-<br/>tries.....</b> | <b>108.3</b>   | <b>36.9</b>        | <b>18.7</b>          | <b>6.4</b>         | <b>166.4</b>        | <b>56.7</b>        | <b>92.0</b>         | <b>30.5</b>        | <b>77.3</b>          | <b>25.7</b>        | <b>132.0</b>        | <b>43.8</b>        |

Subsection 8.—Canada's Position in International Trade in 1933.

Canada's Position in World Trade, 1933.—In 1932 Canada, in world trade, had occupied seventh place in total trade, ninth place in imports, and fifth place in exports. In the calendar year 1933 there have been some notable changes in the relative position of certain chief trading countries of the world. The United Kingdom has moved from third position in 1932 up to second position in 1933 in

the value of exports, displacing Germany, while Canada has moved from fifth place in 1932 down to sixth place in 1933, being displaced by Belgium. For the calendar year 1933 Belgian exports exceeded those for Canada by only \$10,000,000, while for the period July-December, 1933, the exports from Canada amounted to \$325,400,000 compared with a similar trade for Belgium of \$297,700,000, so that during this period Canada occupied fifth position in export trade. In import trade Canada moved from ninth place down to eleventh place, yielding ninth place to Switzerland and tenth place to British India; while, in total trade, she moved from seventh place in 1932 down to ninth place in 1933, Japan moving from eighth place up to seventh, and Italy from ninth place into eighth place.

XII.—TRADE OF TWELVE LEADING COMMERCIAL COUNTRIES, EXPRESSED IN CANADIAN CURRENCY, CALENDAR YEAR 1933.

NOTE.—The figures in parentheses represent relative positions in 1932.

| Country.            | Total Trade. |            | Net Imports. |            | Domestic Exports. |            |
|---------------------|--------------|------------|--------------|------------|-------------------|------------|
|                     | Rank.        | Amount.    | Rank.        | Amount.    | Rank.             | Amount.    |
|                     |              | Million \$ |              | Million \$ |                   | Million \$ |
| United Kingdom..... | 1 (1)        | 4,559.4    | 1 (1)        | 2,874.4    | 2 (3)             | 1,685.0    |
| United States.....  | 2 (2)        | 3,350.9    | 2 (2)        | 1,552.2    | 1 (1)             | 1,798.7    |
| Germany.....        | 3 (3)        | 2,977.7    | 4 (4)        | 1,379.3    | 3 (2)             | 1,598.4    |
| France.....         | 4 (4)        | 2,531.2    | 3 (3)        | 1,535.5    | 4 (4)             | 995.7      |
| Belgium.....        | 5 (5)        | 1,111.4    | 6 (6)        | 569.7      | 5 (6)             | 541.7      |
| Netherlands.....    | 6 (6)        | 1,074.5    | 5 (5)        | 671.5      | 11 (10)           | 403.0      |
| Japan.....          | 7 (8)        | 1,038.1    | 8 (8)        | 526.9      | 7 (7)             | 511.2      |
| Italy.....          | 8 (9)        | 964.4      | 7 (7)        | 533.8      | 9 (9)             | 430.6      |
| Canada.....         | 9 (7)        | 926.9      | 11 (9)       | 395.2      | 6 (5)             | 531.7      |
| British India.....  | 10 (10)      | 901.2      | 10 (10)      | 398.9      | 8 (8)             | 502.3      |
| Argentina.....      | 11 (11)      | 695.4      | 12 (12)      | 309.2      | 12 (11)           | 386.2      |
| Australia.....      | 12 (14)      | 655.1      | 15 (15)      | 246.8      | 10 (13)           | 408.3      |

**Canada's Share in World Trade.**—Two tables on pp. 86 and 87 of the *Consolidated Preliminary Report on the Trade of Canada, 1934*, published by the Dominion Bureau of Statistics, and not reproduced here to economize space, show in values and percentages Canada's share in the imports and in the exports of the forty principal trading countries of the world for the calendar years 1913, 1922 and 1932.

Since 1913 Canada has made remarkable progress in the expansion of her export trade to the world's markets, and in supplying her requirements from all parts of the world. The first of the above-mentioned tables showing "Canada's Share in Imports of Principal Countries", indicates that, while in 1913 Canada provided only 1.95 p.c. of the total imports of these countries, in 1932 her share was 4.05 p.c.

The other side of this trade expansion is shown in the other table, "Canada's Share in Domestic Exports of Principal Countries", which indicates the increasing proportion of the exports of 40 countries taken by Canada. The exports of these countries to Canada increased from 3.39 p.c. of their total exports in 1913 to 3.53 p.c. in 1932.

More detailed information relative to Canada's position in international trade in recent years is given in the following statements dealing respectively with:—XIII, Comparison of the Trade of Twenty Principal Countries of the World, 1913 and 1933; XIV, Trade of Twenty Principal Trading Countries of the World, 1923 to 1933; XV, Per Capita Trade of Twenty Principal Countries of the World, 1923 to 1933; and XVI, Trade Balances of Twenty Principal Countries of the World, 1913, 1932 and 1933.



## XIII.—COMPARISON OF THE TRADE OF TWENTY PRINCIPAL COUNTRIES OF THE WORLD, CALENDAR YEARS 1913 AND 1933.

NOTE.—Countries arranged in order of importance of trade, 1933.

| Ranks.                       |       | Item and Country.          | Foreign Trade. |            | Increase (+) or<br>Decrease (—)<br>1933 Compared with<br>1913. |            | Trade per capita. |        |
|------------------------------|-------|----------------------------|----------------|------------|----------------------------------------------------------------|------------|-------------------|--------|
| 1913.                        | 1933. |                            | 1913.          | 1933.      | Amount.                                                        | Proportion | 1913.             | 1933.  |
|                              |       |                            | Million \$     | Million \$ | Million \$                                                     | p.c.       | \$                | \$     |
| NET IMPORTS FOR CONSUMPTION. |       |                            |                |            |                                                                |            |                   |        |
| 1                            | 1     | United Kingdom.....        | 3,207.9        | 2,874.4    | — 333.5                                                        | — 10.4     | 69.68             | 61.76  |
| 3                            | 2     | United States.....         | 1,756.9        | 1,552.2    | — 204.7                                                        | — 11.6     | 18.10             | 12.35  |
| 4                            | 3     | France.....                | 1,625.3        | 1,535.5    | — 89.8                                                         | — 5.5      | 41.04             | 36.70  |
| 2                            | 4     | Germany.....               | 2,563.3        | 1,379.3    | — 1,184.0                                                      | — 46.2     | 38.62             | 20.85  |
| 5                            | 5     | Netherlands.....           | 1,575.0        | 671.5      | — 903.5                                                        | — 57.4     | 256.35            | 82.07  |
| 6                            | 6     | Belgium.....               | 894.9          | 569.7      | — 325.2                                                        | — 36.3     | 118.07            | 69.36  |
| 7                            | 7     | Italy.....                 | 703.6          | 533.8      | — 169.8                                                        | — 24.1     | 20.28             | 12.93  |
| 13                           | 8     | Japan.....                 | 363.3          | 526.9      | + 163.6                                                        | + 45.0     | 6.94              | 8.06   |
| 12                           | 9     | Switzerland.....           | 370.5          | 425.5      | + 55.0                                                         | + 14.8     | 97.99             | 103.68 |
| 9                            | 10    | British India.....         | 594.1          | 398.9      | — 195.2                                                        | — 32.9     | 1.88              | 1.13   |
| 8                            | 11    | Canada.....                | 659.1          | 395.2      | — 263.9                                                        | — 40.0     | 87.55             | 37.00  |
| 10                           | 12    | Argentina.....             | 406.6          | 309.2      | — 97.4                                                         | — 23.9     | 46.76             | 26.47  |
| 16                           | 13    | Sweden.....                | 226.9          | 259.5      | + 32.6                                                         | + 14.4     | 40.44             | 41.92  |
| 17                           | 14    | Denmark.....               | 208.3          | 250.2      | + 41.9                                                         | + 20.1     | 75.08             | 69.68  |
| 11                           | 15    | Australia.....             | 370.6          | 246.8      | — 123.8                                                        | — 33.4     | 78.30             | 37.28  |
| 18                           | 16    | Union of South Africa..... | 196.5          | 226.4      | + 29.9                                                         | + 15.2     | 28.72             | 27.44  |
| 14                           | 17    | Brazil.....                | 326.0          | 190.8      | — 135.2                                                        | — 41.5     | 13.41             | 4.60   |
| 19                           | 18    | Norway.....                | 148.0          | 151.3      | + 3.3                                                          | + 2.2      | 60.11             | 53.18  |
| 15                           | 19    | Spain.....                 | 252.1          | 96.2       | — 155.9                                                        | — 61.8     | 12.64             | 4.08   |
| 20                           | 20    | New Zealand.....           | 104.1          | 93.7       | — 10.4                                                         | — 10.0     | 98.89             | 60.96  |
| EXPORTS (DOMESTIC).          |       |                            |                |            |                                                                |            |                   |        |
| 2                            | 1     | United States.....         | 2,448.3        | 1,798.7    | — 649.6                                                        | — 26.5     | 25.23             | 14.31  |
| 1                            | 2     | United Kingdom.....        | 2,556.2        | 1,685.0    | — 871.2                                                        | — 34.1     | 55.52             | 36.21  |
| 3                            | 3     | Germany.....               | 2,402.9        | 1,598.4    | — 804.5                                                        | — 33.5     | 36.22             | 24.16  |
| 4                            | 4     | France.....                | 1,327.9        | 995.7      | — 332.2                                                        | — 25.0     | 33.53             | 23.80  |
| 7                            | 5     | Belgium.....               | 701.5          | 541.7      | — 159.8                                                        | — 22.7     | 92.55             | 65.96  |
| 10                           | 6     | Canada.....                | 436.2          | 531.7      | + 95.5                                                         | + 21.9     | 57.95             | 49.79  |
| 13                           | 7     | Japan.....                 | 313.5          | 511.2      | + 197.7                                                        | + 63.1     | 5.99              | 7.82   |
| 6                            | 8     | British India.....         | 781.9          | 502.3      | — 279.6                                                        | — 35.7     | 2.48              | 1.42   |
| 8                            | 9     | Italy.....                 | 484.7          | 430.6      | — 54.1                                                         | — 11.2     | 13.97             | 10.43  |
| 11                           | 10    | Australia.....             | 354.0          | 408.3      | + 54.3                                                         | + 15.3     | 74.78             | 61.67  |
| 5                            | 11    | Netherlands.....           | 1,239.4        | 403.0      | — 836.4                                                        | — 67.5     | 201.71            | 49.25  |
| 9                            | 12    | Argentina.....             | 465.6          | 386.2      | — 79.4                                                         | — 17.0     | 53.61             | 33.06  |
| 18                           | 13    | Union of South Africa..... | 133.9          | 323.6      | + 189.7                                                        | + 141.7    | 19.58             | 39.22  |
| 15                           | 14    | Sweden.....                | 219.0          | 256.7      | + 37.7                                                         | + 17.2     | 39.05             | 41.47  |
| 12                           | 15    | Brazil.....                | 314.7          | 248.5      | — 66.2                                                         | — 21.0     | 12.94             | 5.99   |
| 17                           | 16    | Denmark.....               | 170.8          | 236.9      | + 66.1                                                         | + 38.7     | 61.55             | 65.99  |
| 14                           | 17    | Switzerland.....           | 265.6          | 227.6      | — 38.0                                                         | — 14.3     | 70.25             | 55.45  |
| 19                           | 18    | New Zealand.....           | 102.1          | 149.3      | + 47.2                                                         | + 46.2     | 97.01             | 97.15  |
| 20                           | 19    | Norway.....                | 102.1          | 126.9      | + 24.8                                                         | + 24.3     | 41.46             | 44.61  |
| 16                           | 20    | Spain.....                 | 204.1          | 76.9       | — 127.2                                                        | — 62.3     | 10.23             | 3.26   |
| AGGREGATE TRADE.             |       |                            |                |            |                                                                |            |                   |        |
| 1                            | 1     | United Kingdom.....        | 5,764.1        | 4,559.4    | — 1,204.7                                                      | — 20.9     | 125.20            | 97.97  |
| 3                            | 2     | United States.....         | 4,205.2        | 3,350.9    | — 854.3                                                        | — 20.3     | 43.33             | 26.66  |
| 2                            | 3     | Germany.....               | 4,966.2        | 2,977.7    | — 1,988.5                                                      | — 39.6     | 74.84             | 45.01  |
| 4                            | 4     | France.....                | 2,953.2        | 2,531.2    | — 422.0                                                        | — 14.3     | 74.57             | 60.50  |
| 6                            | 5     | Belgium.....               | 1,596.4        | 1,111.4    | — 485.0                                                        | — 30.4     | 210.62            | 135.32 |
| 5                            | 6     | Netherlands.....           | 2,814.4        | 1,074.5    | — 1,739.9                                                      | — 61.8     | 458.06            | 131.32 |
| 12                           | 7     | Japan.....                 | 676.8          | 1,038.1    | + 361.3                                                        | + 53.4     | 12.93             | 15.88  |
| 8                            | 8     | Italy.....                 | 1,188.3        | 964.4      | — 223.9                                                        | — 18.8     | 34.25             | 23.36  |
| 9                            | 9     | Canada.....                | 1,095.3        | 926.9      | — 168.4                                                        | — 15.4     | 145.50            | 86.79  |
| 7                            | 10    | British India.....         | 1,376.0        | 901.2      | — 474.8                                                        | — 34.5     | 4.36              | 2.55   |
| 10                           | 11    | Argentina.....             | 872.2          | 695.4      | — 176.8                                                        | — 20.3     | 100.37            | 59.53  |
| 11                           | 12    | Australia.....             | 724.6          | 655.1      | — 69.5                                                         | — 9.6      | 153.08            | 98.95  |
| 14                           | 13    | Switzerland.....           | 636.1          | 653.1      | + 17.0                                                         | + 2.7      | 168.24            | 159.13 |
| 18                           | 14    | Union of South Africa..... | 330.4          | 550.0      | + 219.6                                                        | + 66.5     | 48.30             | 66.66  |
| 16                           | 15    | Sweden.....                | 445.9          | 516.2      | + 70.3                                                         | + 15.8     | 79.49             | 83.39  |
| 17                           | 16    | Denmark.....               | 379.1          | 487.1      | + 108.0                                                        | + 28.5     | 136.63            | 135.67 |
| 13                           | 17    | Brazil.....                | 640.7          | 439.3      | — 201.4                                                        | — 31.4     | 26.35             | 10.59  |
| 19                           | 18    | Norway.....                | 250.1          | 278.2      | + 28.1                                                         | + 11.2     | 101.57            | 97.79  |
| 20                           | 19    | New Zealand.....           | 206.2          | 243.0      | + 36.8                                                         | + 17.8     | 195.90            | 158.11 |
| 15                           | 20    | Spain.....                 | 456.2          | 173.1      | — 283.1                                                        | — 62.1     | 22.87             | 7.34   |

XIV.—TRADE OF TWENTY PRINCIPAL TRADING COUNTRIES OF THE WORLD,  
EXPRESSED IN CANADIAN CURRENCY, CALENDAR YEARS, 1923-33.

| Item and Country.          | 1923.                  | 1924.   | 1925.   | 1926.   | 1927.   | 1928.   | 1929.   | 1930.   | 1931.   | 1932.   | 1933.   |
|----------------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <b>NET IMPORTS.</b>        |                        |         |         |         |         |         |         |         |         |         |         |
|                            | (Millions of Dollars.) |         |         |         |         |         |         |         |         |         |         |
| Argentina.....             | 846.5                  | 799.7   | 846.2   | 793.7   | 826.8   | 875.2   | 831.8   | 713.3   | 498.4   | 244.4   | 309.2   |
| Australia.....             | 620.0                  | 635.7   | 702.3   | 753.4   | 771.6   | 663.5   | 692.0   | 448.4   | 191.4   | 206.1   | 246.8   |
| Belgium.....               | 665.2                  | 826.5   | 846.4   | 774.2   | 807.6   | 880.0   | 993.1   | 863.9   | 690.3   | 513.8   | 569.7   |
| Brazil.....                | 239.9                  | 311.3   | 420.3   | 387.6   | 388.8   | 443.7   | 420.8   | 256.6   | 141.0   | 124.2   | 190.8   |
| British India.....         | 713.8                  | 766.7   | 814.4   | 864.6   | 896.9   | 910.8   | 944.8   | 696.1   | 484.3   | 402.2   | 398.9   |
| Canada.....                | 889.4                  | 795.6   | 878.2   | 993.0   | 1,066.7 | 1,197.9 | 1,273.1 | 989.0   | 616.2   | 444.6   | 395.2   |
| Denmark.....               | 354.2                  | 367.4   | 407.5   | 395.8   | 415.4   | 434.2   | 455.8   | 438.0   | 361.0   | 233.7   | 250.2   |
| France.....                | 2,445.6                | 2,134.3 | 2,097.7 | 1,928.8 | 2,071.8 | 2,095.2 | 2,296.4 | 2,057.1 | 1,724.7 | 1,327.3 | 1,535.5 |
| Germany.....               | 1,447.1                | 2,174.1 | 2,957.9 | 2,368.3 | 3,366.1 | 3,354.0 | 3,197.4 | 2,473.6 | 1,660.7 | 1,258.6 | 1,379.3 |
| Italy.....                 | 807.8                  | 851.1   | 1,042.3 | 1,015.2 | 1,049.0 | 1,156.8 | 1,120.4 | 907.8   | 631.2   | 480.6   | 533.8   |
| Japan.....                 | 983.0                  | 1,007.4 | 1,037.7 | 1,085.7 | 995.4   | 991.4   | 1,008.6 | 746.0   | 615.5   | 447.5   | 526.9   |
| Netherlands.....           | 801.5                  | 914.5   | 986.5   | 978.7   | 1,022.4 | 1,080.5 | 1,113.8 | 974.1   | 794.7   | 594.7   | 671.5   |
| New Zealand.....           | 199.8                  | 214.3   | 249.6   | 237.9   | 213.4   | 214.8   | 232.2   | 204.1   | 113.0   | 88.9    | 93.7    |
| Norway.....                | 224.2                  | 212.8   | 248.0   | 241.3   | 254.5   | 267.2   | 284.2   | 283.4   | 220.7   | 119.2   | 151.3   |
| Spain.....                 | 447.6                  | 729.2   | 322.1   | 319.6   | 439.7   | 499.1   | 511.6   | 287.5   | 116.5   | 89.1    | 96.2    |
| Sweden.....                | 363.7                  | 374.4   | 385.8   | 399.5   | 422.1   | 458.6   | 478.4   | 443.1   | 376.8   | 241.2   | 259.5   |
| Switzerland.....           | 413.0                  | 478.4   | 509.4   | 466.0   | 493.8   | 528.9   | 540.6   | 517.1   | 456.0   | 388.3   | 425.5   |
| Union of S. Africa.....    | 256.3                  | 284.4   | 305.8   | 339.3   | 343.1   | 378.9   | 419.7   | 314.2   | 248.1   | 180.4   | 226.4   |
| United Kingdom.....        | 4,564.2                | 5,094.4 | 5,641.1 | 5,437.5 | 5,335.4 | 5,239.4 | 5,411.0 | 4,661.6 | 3,740.4 | 2,595.2 | 2,874.4 |
| United States.....         | 3,789.4                | 3,552.5 | 4,136.8 | 4,333.9 | 4,077.9 | 3,992.0 | 4,316.3 | 2,999.5 | 2,132.6 | 1,462.1 | 1,552.2 |
| <b>EXPORTS (DOMESTIC).</b> |                        |         |         |         |         |         |         |         |         |         |         |
| Argentina.....             | 827.1                  | 976.0   | 837.6   | 764.5   | 974.0   | 987.2   | 920.4   | 592.6   | 618.1   | 376.4   | 386.2   |
| Australia.....             | 501.8                  | 602.6   | 739.6   | 627.4   | 671.0   | 646.4   | 584.3   | 434.3   | 417.8   | 298.7   | 408.3   |
| Belgium.....               | 469.4                  | 653.1   | 688.3   | 655.8   | 739.2   | 840.4   | 902.0   | 733.4   | 672.4   | 468.3   | 541.7   |
| Brazil.....                | 548.5                  | 431.2   | 491.7   | 460.4   | 432.9   | 476.8   | 460.5   | 318.5   | 254.8   | 207.5   | 248.5   |
| British India.....         | 1,056.5                | 1,204.3 | 1,456.7 | 1,188.5 | 1,162.4 | 1,209.9 | 1,182.1 | 917.4   | 587.5   | 410.2   | 502.3   |
| Canada.....                | 1,014.7                | 1,058.1 | 1,271.0 | 1,268.6 | 1,218.3 | 1,349.7 | 1,182.4 | 885.9   | 605.3   | 493.8   | 531.7   |
| Denmark.....               | 287.2                  | 329.9   | 380.2   | 367.9   | 386.1   | 412.4   | 432.9   | 406.8   | 325.9   | 231.7   | 236.9   |
| France.....                | 1,891.5                | 2,204.5 | 2,166.2 | 1,929.5 | 2,164.7 | 2,012.8 | 1,972.8 | 1,683.2 | 1,243.3 | 876.3   | 995.7   |
| Germany.....               | 1,446.8                | 1,554.9 | 2,094.0 | 2,336.7 | 2,432.1 | 2,721.0 | 3,208.7 | 2,696.1 | 2,272.7 | 1,547.8 | 1,598.4 |
| Italy.....                 | 518.6                  | 629.2   | 728.2   | 732.6   | 804.2   | 762.0   | 783.2   | 634.8   | 545.2   | 396.4   | 430.6   |
| Japan.....                 | 716.2                  | 738.6   | 894.7   | 930.7   | 907.9   | 888.4   | 978.4   | 710.3   | 570.3   | 440.6   | 511.2   |
| Netherlands.....           | 519.8                  | 642.5   | 726.3   | 701.1   | 762.0   | 799.6   | 805.1   | 692.4   | 550.8   | 387.3   | 403.0   |
| New Zealand.....           | 207.9                  | 229.3   | 260.6   | 213.0   | 228.8   | 263.6   | 266.0   | 215.2   | 158.0   | 122.4   | 149.3   |
| Norway.....                | 137.5                  | 146.5   | 184.5   | 178.3   | 175.9   | 178.8   | 199.6   | 180.7   | 119.5   | 114.7   | 126.9   |
| Spain.....                 | 233.4                  | 381.4   | 226.9   | 240.3   | 322.1   | 362.7   | 312.0   | 270.2   | 95.1    | 67.5    | 76.9    |
| Sweden.....                | 307.8                  | 334.3   | 364.6   | 379.2   | 431.9   | 420.3   | 487.4   | 415.5   | 295.2   | 198.5   | 256.7   |
| Switzerland.....           | 324.2                  | 381.9   | 394.3   | 354.4   | 389.7   | 411.3   | 408.7   | 343.1   | 273.2   | 176.5   | 227.6   |
| Union of S. Africa.....    | 341.2                  | 348.5   | 380.9   | 340.4   | 361.5   | 375.5   | 416.3   | 330.6   | 282.7   | 367.8   | 323.6   |
| United Kingdom.....        | 3,575.7                | 3,555.3 | 3,732.4 | 3,172.5 | 3,451.0 | 3,520.7 | 3,550.5 | 2,776.7 | 1,823.8 | 1,452.9 | 1,685.0 |
| United States.....         | 4,172.9                | 4,542.7 | 4,818.3 | 4,711.5 | 4,758.3 | 5,029.7 | 5,157.4 | 3,781.8 | 2,481.0 | 1,790.9 | 1,798.7 |
| <b>AGGREGATE TRADE.</b>    |                        |         |         |         |         |         |         |         |         |         |         |
| Argentina.....             | 1,673.6                | 1,775.7 | 1,683.8 | 1,558.2 | 1,800.8 | 1,862.4 | 1,752.2 | 1,305.9 | 1,116.5 | 620.8   | 695.4   |
| Australia.....             | 1,121.8                | 1,238.3 | 1,441.9 | 1,380.8 | 1,442.6 | 1,309.9 | 1,276.3 | 882.7   | 609.2   | 504.8   | 655.1   |
| Belgium.....               | 1,134.6                | 1,479.6 | 1,534.7 | 1,430.0 | 1,546.8 | 1,720.4 | 1,805.1 | 1,597.3 | 1,362.7 | 982.1   | 1,111.4 |
| Brazil.....                | 588.4                  | 742.5   | 912.0   | 848.0   | 821.7   | 920.5   | 881.3   | 575.1   | 395.8   | 331.7   | 439.3   |
| British India.....         | 1,770.3                | 1,971.0 | 2,271.1 | 2,053.1 | 2,059.3 | 2,120.7 | 2,126.9 | 1,613.5 | 1,071.8 | 812.4   | 901.2   |
| Canada.....                | 1,904.1                | 1,853.7 | 2,149.2 | 2,261.6 | 2,285.0 | 2,547.6 | 2,455.5 | 1,874.9 | 1,221.5 | 938.4   | 926.9   |
| Denmark.....               | 641.4                  | 697.3   | 787.7   | 763.7   | 801.5   | 846.6   | 889.7   | 844.8   | 686.9   | 456.4   | 487.1   |
| France.....                | 4,337.1                | 4,338.8 | 4,263.9 | 3,858.3 | 4,236.5 | 4,108.0 | 4,269.2 | 3,740.3 | 2,968.0 | 2,203.6 | 2,531.2 |
| Germany.....               | 2,893.9                | 3,729.0 | 5,051.9 | 4,705.0 | 5,798.2 | 6,075.0 | 6,406.1 | 5,169.7 | 3,933.4 | 2,806.4 | 2,977.7 |
| Italy.....                 | 1,326.4                | 1,480.3 | 1,770.5 | 1,747.8 | 1,853.2 | 1,918.8 | 1,903.6 | 1,542.6 | 1,176.4 | 877.0   | 964.4   |
| Japan.....                 | 1,699.2                | 1,746.0 | 1,932.4 | 2,016.4 | 1,903.3 | 1,879.8 | 1,987.0 | 1,456.3 | 1,185.8 | 888.1   | 1,038.1 |
| Netherlands.....           | 1,321.3                | 1,557.0 | 1,712.8 | 1,679.8 | 1,784.4 | 1,880.1 | 1,918.9 | 1,066.5 | 1,345.5 | 982.0   | 1,074.5 |
| New Zealand.....           | 407.7                  | 443.6   | 510.2   | 450.9   | 442.2   | 478.4   | 498.7   | 419.3   | 271.0   | 211.3   | 243.0   |
| Norway.....                | 361.7                  | 359.3   | 432.5   | 419.6   | 430.4   | 446.0   | 483.8   | 464.1   | 340.2   | 233.9   | 278.2   |
| Spain.....                 | 681.0                  | 1,110.6 | 549.0   | 559.9   | 761.8   | 861.8   | 823.6   | 557.7   | 211.6   | 156.6   | 173.1   |
| Sweden.....                | 671.5                  | 708.7   | 750.4   | 778.7   | 854.0   | 878.9   | 965.8   | 858.6   | 672.0   | 439.7   | 516.2   |
| Switzerland.....           | 737.2                  | 860.3   | 903.7   | 820.4   | 883.5   | 40.2    | 949.3   | 860.2   | 729.2   | 564.8   | 653.1   |
| Union of S. Africa.....    | 597.6                  | 632.9   | 686.7   | 679.7   | 704.6   | 754.4   | 836.0   | 644.8   | 530.8   | 548.2   | 550.0   |
| United Kingdom.....        | 8,139.9                | 8,649.7 | 9,373.5 | 8,610.0 | 8,786.4 | 8,760.1 | 8,961.5 | 7,438.3 | 5,564.2 | 4,048.1 | 4,559.4 |
| United States.....         | 7,962.3                | 8,095.2 | 8,955.1 | 9,045.4 | 8,836.2 | 9,021.7 | 9,473.7 | 6,781.3 | 4,613.6 | 3,253.0 | 3,350.9 |

PER CAPITA TRADE OF TWENTY PRINCIPAL COUNTRIES 551

XV.—PER CAPITA TRADE OF TWENTY PRINCIPAL TRADING COUNTRIES OF THE WORLD, CALENDAR YEARS, 1923-33.

| Item and Country.          | 1923.  | 1924.  | 1925.  | 1926.  | 1927.  | 1928.  | 1929.  | 1930.  | 1931.  | 1932.  | 1933.  |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| NET IMPORTS.               | \$     | \$     | \$     | \$     | \$     | \$     | \$     | \$     | \$     | \$     | \$     |
| Argentina.....             | 97.31  | 79.24  | 86.00  | 76.70  | 79.90  | 82.20  | 76.28  | 63.72  | 43.56  | 20.96  | 26.47  |
| Australia.....             | 114.04 | 109.53 | 118.46 | 124.66 | 125.11 | 105.58 | 108.59 | 69.69  | 29.49  | 31.47  | 37.28  |
| Belgium.....               | 87.80  | 108.67 | 110.15 | 99.09  | 102.55 | 110.94 | 124.20 | 107.19 | 85.31  | 62.97  | 69.36  |
| Brazil.....                | 7.83   | 9.22   | 12.51  | 10.51  | 10.55  | 11.35  | 10.45  | 6.37   | 3.50   | 3.08   | 4.00   |
| British India.....         | 2.24   | 2.40   | 2.55   | 2.72   | 2.81   | 2.85   | 2.96   | 2.18   | 1.38   | 1.14   | 1.13   |
| Canada.....                | 97.25  | 86.23  | 93.78  | 105.75 | 112.06 | 124.03 | 128.14 | 99.35  | 59.51  | 42.32  | 37.00  |
| Denmark.....               | 106.76 | 109.61 | 121.57 | 116.07 | 120.35 | 124.94 | 130.34 | 124.44 | 101.65 | 65.54  | 69.68  |
| France.....                | 62.07  | 54.43  | 52.61  | 48.37  | 50.84  | 51.42  | 55.06  | 50.01  | 41.22  | 31.71  | 36.70  |
| Germany.....               | 24.17  | 36.32  | 46.78  | 37.46  | 53.24  | 53.05  | 49.65  | 38.20  | 25.51  | 19.23  | 20.85  |
| Italy.....                 | 20.80  | 21.92  | 27.71  | 25.16  | 25.95  | 28.35  | 27.46  | 21.77  | 15.31  | 11.52  | 12.93  |
| Japan.....                 | 17.56  | 17.23  | 17.74  | 18.35  | 16.04  | 15.73  | 15.79  | 11.51  | 9.42   | 6.95   | 8.06   |
| Netherlands.....           | 114.87 | 128.13 | 134.07 | 131.00 | 134.06 | 139.98 | 144.07 | 123.30 | 100.34 | 74.51  | 82.07  |
| New Zealand.....           | 156.83 | 158.72 | 180.36 | 169.16 | 149.57 | 148.07 | 159.00 | 136.96 | 74.86  | 58.30  | 60.96  |
| Norway.....                | 82.41  | 77.69  | 90.03  | 87.32  | 91.24  | 95.51  | 101.09 | 100.47 | 78.99  | 42.09  | 53.18  |
| Spain.....                 | 20.97  | 33.44  | 14.66  | 14.55  | 19.88  | 22.09  | 17.92  | 12.72  | 5.08   | 3.78   | 4.08   |
| Sweden.....                | 61.09  | 62.33  | 64.08  | 66.08  | 69.61  | 75.35  | 78.36  | 72.40  | 61.36  | 39.20  | 41.92  |
| Switzerland.....           | 106.41 | 122.95 | 130.02 | 118.39 | 124.73 | 132.66 | 134.55 | 127.62 | 112.14 | 95.15  | 103.68 |
| Union of South Africa..... | 36.96  | 40.31  | 43.34  | 45.09  | 45.52  | 38.39  | 45.98  | 28.03  | 30.96  | 21.86  | 27.44  |
| United Kingdom.....        | 96.48  | 114.26 | 125.56 | 120.23 | 117.97 | 114.83 | 118.29 | 101.56 | 76.30  | 56.00  | 61.76  |
| United States.....         | 34.69  | 31.63  | 35.86  | 37.00  | 34.37  | 33.26  | 35.96  | 24.44  | 17.37  | 11.71  | 12.35  |
| EXPORTS (DOMESTIC).        |        |        |        |        |        |        |        |        |        |        |        |
| Argentina.....             | 95.07  | 99.19  | 85.13  | 73.87  | 94.12  | 92.72  | 84.40  | 52.94  | 54.02  | 32.28  | 33.06  |
| Australia.....             | 92.29  | 103.83 | 124.74 | 103.80 | 108.81 | 102.87 | 91.68  | 67.50  | 64.38  | 45.61  | 61.67  |
| Belgium.....               | 62.90  | 85.87  | 89.57  | 83.94  | 93.87  | 105.96 | 112.81 | 90.99  | 83.10  | 57.40  | 65.96  |
| Brazil.....                | 11.37  | 12.77  | 14.64  | 12.48  | 11.74  | 12.19  | 11.44  | 7.91   | 6.32   | 5.15   | 5.99   |
| British India.....         | 3.31   | 3.77   | 4.57   | 3.73   | 3.64   | 3.70   | 3.71   | 2.88   | 1.67   | 1.16   | 1.42   |
| Canada.....                | 110.94 | 114.67 | 135.73 | 135.09 | 127.99 | 139.75 | 119.01 | 89.17  | 58.46  | 47.00  | 49.79  |
| Denmark.....               | 86.53  | 98.41  | 113.42 | 107.91 | 111.86 | 118.67 | 123.78 | 115.57 | 91.77  | 64.97  | 65.99  |
| France.....                | 48.01  | 56.23  | 54.33  | 48.39  | 53.12  | 49.40  | 48.16  | 40.92  | 29.72  | 20.94  | 23.80  |
| Germany.....               | 24.17  | 25.98  | 33.12  | 36.96  | 38.47  | 43.04  | 49.83  | 41.64  | 34.91  | 23.65  | 24.16  |
| Italy.....                 | 13.36  | 16.20  | 19.36  | 18.16  | 19.90  | 18.68  | 19.19  | 15.23  | 13.22  | 9.50   | 10.43  |
| Japan.....                 | 12.79  | 12.63  | 15.29  | 15.73  | 14.63  | 14.10  | 15.32  | 10.96  | 8.72   | 6.84   | 7.82   |
| Netherlands.....           | 74.51  | 89.25  | 98.71  | 93.84  | 99.92  | 103.59 | 104.14 | 87.64  | 69.54  | 48.52  | 49.25  |
| New Zealand.....           | 163.17 | 169.85 | 188.32 | 151.51 | 160.30 | 182.57 | 181.72 | 144.40 | 104.62 | 80.28  | 97.15  |
| Norway.....                | 50.55  | 53.50  | 66.97  | 64.55  | 63.05  | 63.93  | 71.03  | 64.05  | 42.74  | 40.50  | 44.61  |
| Spain.....                 | 10.93  | 17.49  | 10.33  | 10.94  | 14.56  | 16.05  | 13.80  | 11.96  | 4.14   | 2.86   | 3.26   |
| Sweden.....                | 51.69  | 55.66  | 60.56  | 62.72  | 71.22  | 69.04  | 79.83  | 67.89  | 48.06  | 32.27  | 41.47  |
| Switzerland.....           | 83.54  | 98.17  | 100.63 | 90.05  | 98.43  | 103.16 | 101.71 | 84.67  | 67.19  | 43.24  | 55.45  |
| Union of South Africa..... | 49.24  | 49.39  | 53.98  | 45.23  | 47.95  | 38.04  | 45.61  | 29.49  | 35.28  | 44.58  | 39.22  |
| United Kingdom.....        | 75.58  | 79.74  | 83.08  | 70.15  | 76.30  | 77.16  | 77.62  | 60.50  | 37.21  | 31.35  | 36.21  |
| United States.....         | 38.20  | 40.45  | 41.76  | 40.22  | 40.11  | 41.91  | 42.97  | 30.82  | 20.14  | 14.35  | 14.31  |
| AGGREGATE TRADE.           |        |        |        |        |        |        |        |        |        |        |        |
| Argentina.....             | 192.38 | 178.43 | 171.13 | 150.57 | 174.02 | 174.92 | 160.68 | 116.66 | 97.58  | 53.24  | 59.53  |
| Australia.....             | 206.73 | 213.36 | 243.20 | 228.46 | 233.92 | 208.45 | 200.27 | 137.19 | 93.87  | 77.08  | 98.95  |
| Belgium.....               | 150.80 | 194.54 | 199.72 | 183.03 | 196.42 | 216.90 | 237.01 | 198.18 | 168.41 | 120.37 | 135.32 |
| Brazil.....                | 19.20  | 21.99  | 27.15  | 22.99  | 22.29  | 23.54  | 21.89  | 14.28  | 9.82   | 8.23   | 10.59  |
| British India.....         | 5.55   | 6.17   | 7.12   | 6.45   | 6.45   | 6.64   | 6.67   | 5.06   | 3.05   | 2.30   | 2.50   |
| Canada.....                | 208.19 | 200.90 | 229.51 | 240.84 | 240.05 | 263.78 | 247.15 | 188.52 | 117.97 | 89.32  | 86.79  |
| Denmark.....               | 193.29 | 208.02 | 234.99 | 223.98 | 232.21 | 243.61 | 254.12 | 240.01 | 193.42 | 130.51 | 135.67 |
| France.....                | 110.08 | 110.66 | 106.94 | 96.76  | 103.96 | 100.82 | 103.22 | 90.93  | 70.94  | 52.65  | 60.50  |
| Germany.....               | 48.34  | 62.30  | 79.90  | 74.42  | 91.71  | 96.09  | 99.48  | 79.84  | 60.42  | 42.88  | 45.01  |
| Italy.....                 | 34.16  | 38.12  | 47.07  | 43.32  | 45.85  | 47.03  | 46.65  | 37.00  | 28.53  | 21.02  | 23.36  |
| Japan.....                 | 30.35  | 29.86  | 33.03  | 34.08  | 30.67  | 29.83  | 31.11  | 22.47  | 18.14  | 13.79  | 15.88  |
| Netherlands.....           | 189.38 | 217.38 | 232.78 | 224.84 | 233.98 | 243.57 | 248.21 | 210.94 | 169.88 | 123.03 | 131.32 |
| New Zealand.....           | 320.00 | 328.57 | 368.68 | 320.67 | 309.87 | 330.64 | 340.72 | 281.36 | 179.48 | 138.58 | 158.11 |
| Norway.....                | 132.96 | 131.19 | 157.00 | 151.87 | 154.29 | 159.44 | 172.12 | 164.52 | 121.73 | 82.59  | 97.79  |
| Spain.....                 | 31.90  | 50.93  | 24.99  | 25.49  | 34.44  | 38.14  | 31.72  | 24.68  | 9.22   | 6.64   | 7.34   |
| Sweden.....                | 112.78 | 117.99 | 124.64 | 128.80 | 140.83 | 144.39 | 158.19 | 140.29 | 109.42 | 71.47  | 83.39  |
| Switzerland.....           | 189.95 | 221.12 | 230.65 | 208.44 | 223.16 | 235.82 | 236.26 | 212.29 | 179.33 | 138.39 | 159.13 |
| Union of South Africa..... | 86.23  | 89.70  | 97.32  | 90.32  | 93.47  | 76.43  | 91.59  | 57.52  | 66.24  | 66.44  | 66.66  |
| United Kingdom.....        | 172.06 | 194.00 | 208.64 | 190.38 | 194.27 | 191.99 | 195.91 | 162.06 | 113.51 | 87.35  | 97.97  |
| United States.....         | 72.89  | 72.08  | 77.62  | 77.22  | 74.48  | 75.17  | 78.93  | 55.26  | 37.58  | 26.06  | 26.66  |



XVI.—TRADE BALANCES OF TWENTY PRINCIPAL COUNTRIES OF THE WORLD,  
CALENDAR YEARS 1913, 1932 AND 1933.

NOTE.—Countries arranged in order of importance of trade balances, 1933. Credit balances marked (+); debit balances marked (—).

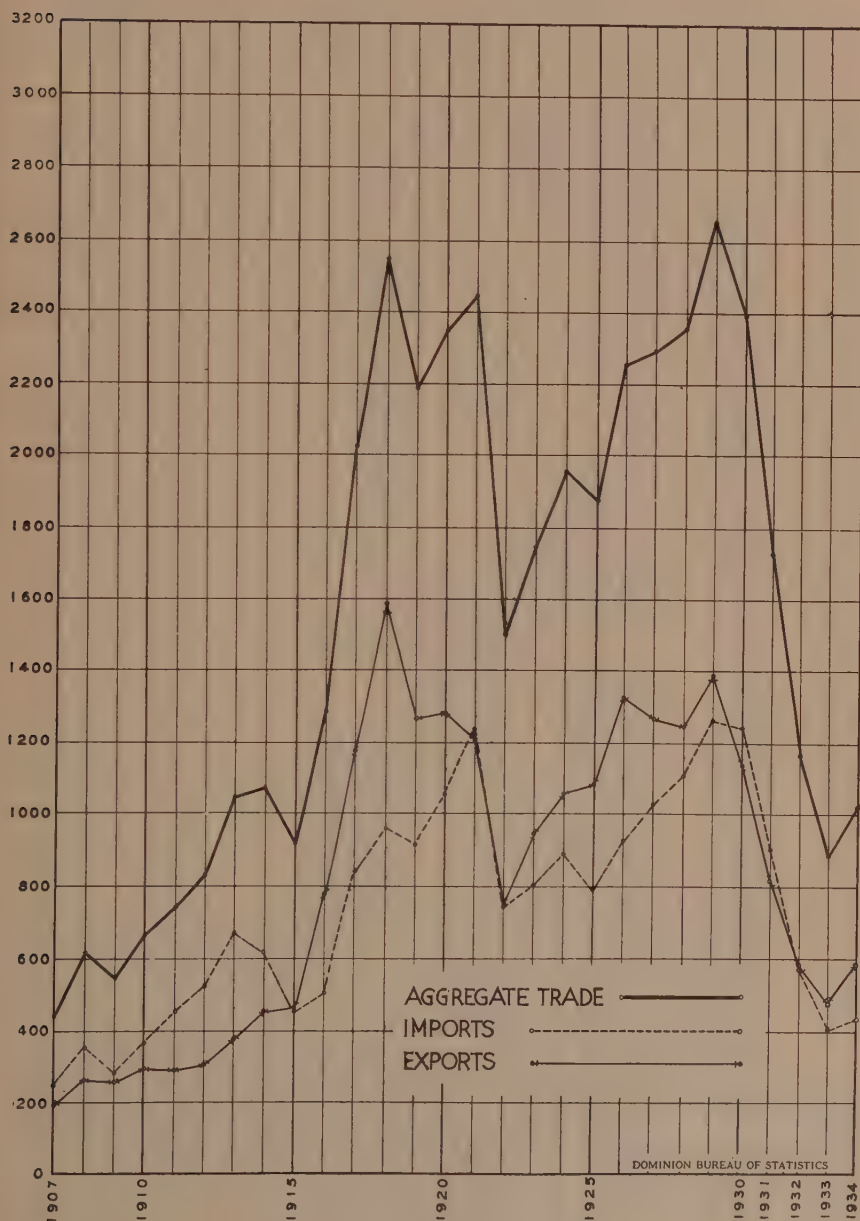
| Ranks. |      |      | Country.                   | 1913.      |             | 1932.      |             | 1933.      |             |
|--------|------|------|----------------------------|------------|-------------|------------|-------------|------------|-------------|
| 1913   | 1932 | 1933 |                            | Amount.    | Per capita. | Amount.    | Per capita. | Amount.    | Per capita. |
|        |      |      |                            | Million \$ | \$          | Million \$ | \$          | Million \$ | \$          |
| 1      | 1    | 1    | United States.....         | + 691.4    | + 7.13      | + 328.9    | + 2.64      | + 246.5    | + 1.96      |
| 14     | 2    | 2    | Germany.....               | - 160.4    | - 2.42      | + 289.3    | + 4.42      | + 219.1    | + 3.31      |
| 7      | 5    | 3    | Australia.....             | - 16.6     | - 3.51      | + 92.6     | + 14.14     | + 161.5    | + 24.39     |
| 17     | 7    | 4    | Canada.....                | - 222.9    | - 29.61     | + 49.2     | + 4.68      | + 136.6    | + 12.79     |
| 2      | 9    | 5    | British India.....         | + 187.8    | + 0.60      | + 7.9      | + 0.02      | + 103.4    | + 0.29      |
| 12     | 3    | 6    | Union of South Africa..... | - 62.6     | - 9.00      | + 187.4    | + 22.72     | + 97.2     | + 11.78     |
| 3      | 4    | 7    | Argentina.....             | + 59.0     | + 6.78      | + 131.9    | + 11.32     | + 77.0     | + 6.59      |
| 6      | 6    | 8    | Brazil.....                | - 11.3     | - 0.46      | + 83.3     | + 2.07      | + 57.7     | + 1.39      |
| 4      | 8    | 9    | New Zealand.....           | - 2.0      | - 1.90      | + 33.5     | + 21.98     | + 55.6     | + 36.19     |
| 5      | 14   | 10   | Sweden.....                | - 7.9      | - 1.41      | - 42.6     | - 6.93      | - 2.8      | - 0.45      |
| 8      | 10   | 11   | Denmark.....               | - 37.5     | - 13.51     | - 2.0      | - 0.57      | - 13.2     | - 3.69      |
| 11     | 12   | 12   | Japan.....                 | - 49.8     | - 0.95      | - 6.9      | - 0.11      | - 15.7     | - 0.24      |
| 10     | 13   | 13   | Spain.....                 | - 48.0     | - 2.41      | - 21.6     | - 0.92      | - 19.3     | - 0.82      |
| 9      | 11   | 14   | Norway.....                | - 45.9     | - 18.60     | - 4.5      | - 1.59      | - 24.4     | - 8.57      |
| 15     | 15   | 15   | Belgium.....               | - 193.4    | - 25.50     | - 45.5     | - 5.57      | - 27.9     | - 3.40      |
| 16     | 16   | 16   | Italy.....                 | - 218.9    | - 6.31      | - 84.2     | - 2.02      | - 103.2    | - 2.50      |
| 13     | 18   | 17   | Switzerland.....           | - 105.1    | - 27.80     | - 211.8    | - 51.91     | - 197.9    | - 48.23     |
| 19     | 17   | 18   | Netherlands.....           | - 335.6    | - 54.62     | - 207.5    | - 25.99     | - 268.5    | - 32.82     |
| 18     | 19   | 19   | France.....                | - 297.4    | - 7.51      | - 450.9    | - 10.77     | - 539.8    | - 12.90     |
| 20     | 20   | 20   | United Kingdom.....        | - 651.7    | - 14.16     | - 1,142.3  | - 24.65     | - 1,189.4  | - 25.55     |

Subsection 9.—Main Historical Tables and Tables Showing Current Trends  
in External Trade.

In this subsection are assembled, in summary form, the main tables of Canadian trade since Confederation, while the figures of trade in the latest years are given in greater detail by countries and commodities. Tables 1 to 9 inclusive are of a historical character, while Tables 10 and 11 give in summary form, and Tables 12 and 13 in detail, our exports and imports for the four latest fiscal years. In Table 14 imports are divided into dutiable and free, and exports into Canadian and foreign produce. Table 15 analyses our trade in the latest year by main groups of origin and degrees of manufacture. Table 16 classifies that trade according to purpose. Table 17 gives trade by provinces and customs ports, and Table 18 by tariffs. Tables 19 and 20 deal with our imports and exports by countries in the latest five years, while Table 21 shows the values and percentages of our imports and exports transported *via* the United States.



## AGGREGATE EXTERNAL TRADE OF CANADA 1907-34



## 1.—Aggregate External Trade of Canada, fiscal years 1868-1934.

| Fiscal Year.            | IMPORTS OF MERCHANDISE ENTERED FOR HOME CONSUMPTION. |             |               | EXPORTS OF MERCHANDISE. <sup>1</sup> |                  |               | Total of Imports for Home Consumption and Exports (Merchandise). |
|-------------------------|------------------------------------------------------|-------------|---------------|--------------------------------------|------------------|---------------|------------------------------------------------------------------|
|                         | Dutiable.                                            | Free.       | Total.        | Canadian Produce. <sup>1</sup>       | Foreign Produce. | Total.        |                                                                  |
|                         | \$                                                   | \$          | \$            | \$                                   | \$               | \$            | \$                                                               |
| 1868.....               | 43,655,696                                           | 23,434,463  | 67,090,159    | 48,504,899                           | 4,196,821        | 52,701,720    | 119,791,879                                                      |
| 1869.....               | 41,069,342                                           | 22,085,599  | 63,154,941    | 52,400,772                           | 3,855,801        | 56,256,573    | 119,411,514                                                      |
| 1870.....               | 45,127,422                                           | 21,774,653  | 66,902,074    | 59,043,590                           | 6,527,622        | 65,571,212    | 132,473,286                                                      |
| 1871.....               | 60,094,362                                           | 24,120,026  | 84,214,388    | 57,630,024                           | 9,853,244        | 67,483,268    | 151,697,656                                                      |
| 1872.....               | 68,278,157                                           | 36,679,210  | 104,955,367   | 65,831,083                           | 12,798,182       | 78,629,265    | 183,584,632                                                      |
| 1873.....               | 71,198,176                                           | 53,310,953  | 124,509,129   | 76,538,025                           | 9,405,910        | 85,943,935    | 210,453,064                                                      |
| 1874.....               | 76,232,530                                           | 46,948,357  | 123,180,887   | 76,741,997                           | 10,614,096       | 87,356,093    | 210,536,980                                                      |
| 1875.....               | 78,138,511                                           | 39,270,057  | 117,408,568   | 69,709,823                           | 7,137,319        | 76,847,142    | 194,255,710                                                      |
| 1876.....               | 60,238,297                                           | 32,274,810  | 92,513,107    | 72,491,437                           | 7,234,961        | 79,726,398    | 172,239,505                                                      |
| 1877.....               | 60,916,770                                           | 33,209,624  | 94,126,394    | 68,030,546                           | 7,111,108        | 75,141,654    | 169,268,048                                                      |
| 1878.....               | 59,773,039                                           | 30,622,812  | 90,395,851    | 67,989,800                           | 11,164,878       | 79,154,678    | 169,550,529                                                      |
| 1879.....               | 55,426,836                                           | 23,275,683  | 78,702,519    | 62,431,025                           | 8,355,644        | 70,786,669    | 149,489,188                                                      |
| 1880.....               | 54,182,967                                           | 15,717,575  | 69,900,542    | 72,899,697                           | 13,240,006       | 86,139,703    | 156,040,245                                                      |
| 1881.....               | 71,620,725                                           | 18,867,604  | 90,488,329    | 83,944,701                           | 13,375,117       | 97,319,818    | 187,808,147                                                      |
| 1882.....               | 85,757,433                                           | 25,387,751  | 111,145,184   | 94,137,657                           | 7,628,453        | 101,766,110   | 212,911,294                                                      |
| 1883.....               | 91,588,339                                           | 30,273,157  | 121,861,496   | 87,702,431                           | 9,751,773        | 97,454,204    | 219,315,700                                                      |
| 1884.....               | 80,010,498                                           | 25,962,480  | 105,972,978   | 79,833,098                           | 9,389,106        | 89,222,204    | 195,195,182                                                      |
| 1885.....               | 73,269,618                                           | 26,486,157  | 99,755,775    | 79,131,735                           | 8,079,466        | 87,211,381    | 186,967,156                                                      |
| 1886.....               | 70,658,819                                           | 25,333,318  | 95,992,137    | 77,756,704                           | 7,438,079        | 85,194,783    | 181,186,920                                                      |
| 1887.....               | 78,120,679                                           | 26,986,531  | 105,107,210   | 80,960,909                           | 8,549,333        | 89,510,242    | 194,617,452                                                      |
| 1888.....               | 69,645,824                                           | 31,025,804  | 100,671,628   | 81,382,072                           | 8,803,394        | 90,185,466    | 189,857,094                                                      |
| 1889.....               | 74,475,139                                           | 34,623,057  | 109,098,196   | 80,272,456                           | 6,938,455        | 87,210,911    | 196,309,107                                                      |
| 1890.....               | 77,106,286                                           | 34,576,287  | 111,682,573   | 85,257,586                           | 9,051,781        | 94,309,367    | 205,991,940                                                      |
| 1891.....               | 74,536,036                                           | 36,997,918  | 111,533,954   | 88,671,738                           | 8,798,631        | 97,470,369    | 209,004,323                                                      |
| 1892.....               | 69,160,737                                           | 45,999,676  | 115,160,413   | 99,032,466                           | 13,121,791       | 112,154,257   | 227,314,670                                                      |
| 1893.....               | 69,873,571                                           | 45,297,259  | 115,170,830   | 105,488,798                          | 8,941,856        | 114,430,654   | 229,601,484                                                      |
| 1894.....               | 62,779,182                                           | 46,291,729  | 109,070,911   | 103,851,764                          | 11,833,805       | 115,685,569   | 224,756,480                                                      |
| 1895.....               | 58,557,655                                           | 42,118,236  | 100,675,891   | 102,828,441                          | 6,485,043        | 109,313,484   | 209,989,375                                                      |
| 1896.....               | 67,239,759                                           | 38,121,402  | 105,361,161   | 109,707,805                          | 6,606,738        | 116,314,542   | 221,675,704                                                      |
| 1897.....               | 66,220,765                                           | 40,397,062  | 106,617,827   | 123,632,540                          | 10,825,163       | 134,457,702   | 241,075,530                                                      |
| 1898.....               | 74,625,088                                           | 51,682,074  | 126,307,162   | 144,548,662                          | 14,980,883       | 159,529,545   | 285,836,707                                                      |
| 1899.....               | 89,432,172                                           | 59,989,244  | 149,422,416   | 137,360,792                          | 17,520,088       | 154,880,880   | 304,303,296                                                      |
| 1900.....               | 104,346,795                                          | 68,304,881  | 172,651,676   | 168,972,301                          | 14,265,254       | 183,237,555   | 355,889,231                                                      |
| 1901.....               | 105,969,756                                          | 71,961,163  | 177,930,919   | 177,431,386                          | 17,077,757       | 194,509,143   | 372,440,062                                                      |
| 1902.....               | 118,657,496                                          | 78,080,308  | 196,737,804   | 196,019,763                          | 13,951,101       | 209,970,864   | 406,708,668                                                      |
| 1903.....               | 136,796,065                                          | 88,298,744  | 225,094,809   | 214,401,674                          | 10,828,087       | 225,229,761   | 450,324,570                                                      |
| 1904.....               | 148,909,576                                          | 94,999,839  | 243,909,415   | 198,414,439                          | 12,641,239       | 211,055,678   | 454,965,093                                                      |
| 1905.....               | 150,928,787                                          | 101,035,427 | 251,964,214   | 190,854,946                          | 10,617,115       | 201,472,061   | 453,436,275                                                      |
| 1906.....               | 173,046,109                                          | 110,046,171 | 283,740,280   | 235,483,956                          | 11,173,846       | 246,657,802   | 530,398,082                                                      |
| 1907 <sup>2</sup> ..... | 152,065,529                                          | 98,160,306  | 250,225,835   | 180,545,306                          | 11,541,927       | 192,087,233   | 442,313,068                                                      |
| 1908.....               | 218,160,047                                          | 134,880,832 | 352,540,879   | 246,960,968                          | 16,407,984       | 263,368,952   | 615,909,831                                                      |
| 1909.....               | 175,014,160                                          | 113,580,036 | 288,594,196   | 242,603,584                          | 17,318,782       | 259,922,366   | 548,516,562                                                      |
| 1910.....               | 227,264,346                                          | 143,053,853 | 370,318,199   | 279,247,551                          | 19,516,442       | 298,763,992   | 669,082,192                                                      |
| 1911.....               | 282,723,812                                          | 170,000,791 | 452,724,602   | 274,316,553                          | 15,683,657       | 290,000,210   | 742,724,813                                                      |
| 1912.....               | 335,304,060                                          | 187,100,615 | 522,404,675   | 290,223,857                          | 17,492,294       | 307,716,151   | 830,120,826                                                      |
| 1913.....               | 441,606,885                                          | 229,600,349 | 671,207,234   | 355,754,600                          | 21,313,755       | 377,068,355   | 1,048,275,589                                                    |
| 1914.....               | 410,238,744                                          | 218,935,254 | 619,193,998   | 341,588,439                          | 29,848,785       | 445,437,224   | 1,074,631,222                                                    |
| 1915.....               | 279,792,195                                          | 176,163,713 | 455,955,908   | 409,418,836                          | 52,023,673       | 461,442,509   | 917,398,417                                                      |
| 1916.....               | 289,366,527                                          | 218,834,607 | 508,201,134   | 741,610,638                          | 37,689,432       | 779,300,070   | 1,287,501,204                                                    |
| 1917.....               | 461,733,609                                          | 384,717,266 | 846,450,878   | 1,151,375,768                        | 27,835,332       | 1,179,211,100 | 2,025,661,978                                                    |
| 1918.....               | 526,344,522                                          | 391,217,056 | 963,532,578   | 1,540,027,788                        | 46,142,004       | 1,586,169,792 | 2,549,702,370                                                    |
| 1919.....               | 542,491,658                                          | 423,217,047 | 919,711,705   | 1,216,443,506                        | 52,321,479       | 1,268,765,283 | 2,187,466,990                                                    |
| 1920.....               | 693,655,165                                          | 370,872,958 | 1,064,528,123 | 1,239,492,098                        | 47,166,611       | 1,286,658,709 | 2,351,186,832                                                    |
| 1921.....               | 847,561,406                                          | 392,597,476 | 1,240,158,882 | 1,189,163,701                        | 21,264,418       | 1,210,428,119 | 2,460,587,001                                                    |
| 1922.....               | 495,626,323                                          | 252,178,009 | 747,804,332   | 740,240,680                          | 13,686,329       | 753,927,009   | 1,501,731,341                                                    |
| 1923.....               | 537,258,782                                          | 265,320,462 | 802,579,244   | 931,451,443                          | 13,844,394       | 945,295,837   | 1,747,875,081                                                    |
| 1924.....               | 591,299,094                                          | 302,067,773 | 893,366,867   | 1,045,351,056                        | 13,412,241       | 1,058,763,297 | 1,952,130,164                                                    |
| 1925.....               | 516,014,455                                          | 280,918,082 | 796,932,537   | 1,069,067,353                        | 12,294,290       | 1,081,361,643 | 1,878,294,180                                                    |
| 1926.....               | 583,051,670                                          | 344,277,062 | 927,328,732   | 1,315,355,791                        | 13,344,346       | 1,328,700,137 | 2,256,028,869                                                    |
| 1927.....               | 659,897,013                                          | 370,995,492 | 1,030,892,505 | 1,252,157,506                        | 15,415,636       | 1,267,573,142 | 2,288,465,647                                                    |
| 1928.....               | 710,050,228                                          | 398,906,238 | 1,108,956,466 | 1,228,349,343                        | 22,248,691       | 1,250,598,034 | 2,359,554,500                                                    |
| 1929.....               | 821,075,430                                          | 444,603,661 | 1,265,679,091 | 1,363,709,672                        | 25,186,403       | 1,388,896,075 | 2,654,575,166                                                    |
| 1930.....               | 819,230,474                                          | 429,043,108 | 1,248,273,582 | 1,120,258,302                        | 24,679,768       | 1,144,938,070 | 2,393,211,652                                                    |
| 1931.....               | 574,090,230                                          | 332,522,465 | 906,612,695   | 799,742,667                          | 17,285,381       | 817,028,048   | 1,723,640,743                                                    |
| 1932.....               | 388,498,048                                          | 190,005,856 | 578,503,904   | 576,344,302                          | 11,221,215       | 587,565,517   | 1,166,069,421                                                    |
| 1933.....               | 256,377,100                                          | 150,006,644 | 406,383,744   | 473,799,955                          | 6,913,842        | 480,713,797   | 887,097,541                                                      |
| 1934.....               | 250,476,412                                          | 183,322,213 | 433,798,625   | 579,343,145                          | 6,311,324        | 585,654,469   | 1,019,453,094                                                    |

<sup>1</sup>Including exports to the United States estimated "short" in the years 1868-1900. <sup>2</sup>Nine months.

## 2.—Ratio of Exports to Imports and Values per Capita of Exports, Imports and Total Trade, fiscal years 1868-1934.

| Fiscal Year. | Excess of Imports Entered for Consumption over Total Exports. | Excess of Total Exports over Imports Entered for Consumption. | Percent-<br>age Rate<br>of Total<br>Exports<br>to<br>Imports<br>Entered<br>for Con-<br>sumption. | Values per Capita.              |                   |                              |
|--------------|---------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------|-------------------|------------------------------|
|              |                                                               |                                                               |                                                                                                  | Exports<br>Canadian<br>Produce. | Total<br>Imports. | Total<br>Trade. <sup>2</sup> |
|              | \$                                                            | \$                                                            | p.c.                                                                                             | \$                              | \$                | \$                           |
| 1868         | 14,388,439                                                    | —                                                             | 78.55                                                                                            | 14.38                           | 19.90             | 34.28                        |
| 1869         | 6,898,368                                                     | —                                                             | 89.07                                                                                            | 15.35                           | 18.50             | 33.85                        |
| 1870         | 1,330,862                                                     | —                                                             | 98.01                                                                                            | 17.09                           | 19.37             | 36.46                        |
| 1871         | 16,731,120                                                    | —                                                             | 80.13                                                                                            | 16.38                           | 23.94             | 40.32                        |
| 1872         | 26,326,102                                                    | —                                                             | 74.92                                                                                            | 18.23                           | 29.06             | 47.29                        |
| 1873         | 38,565,194                                                    | —                                                             | 69.03                                                                                            | 20.87                           | 33.94             | 54.81                        |
| 1874         | 35,824,794                                                    | —                                                             | 70.92                                                                                            | 20.06                           | 32.20             | 52.26                        |
| 1875         | 40,561,426                                                    | —                                                             | 64.45                                                                                            | 17.93                           | 30.21             | 48.14                        |
| 1876         | 12,786,709                                                    | —                                                             | 86.18                                                                                            | 18.36                           | 23.43             | 41.79                        |
| 1877         | 18,984,740                                                    | —                                                             | 79.83                                                                                            | 16.97                           | 23.45             | 40.42                        |
| 1878         | 11,241,173                                                    | —                                                             | 87.56                                                                                            | 16.67                           | 22.16             | 38.83                        |
| 1879         | 7,915,850                                                     | —                                                             | 89.94                                                                                            | 15.06                           | 18.98             | 34.04                        |
| 1880         | —                                                             | 16,239,161                                                    | 123.23                                                                                           | 17.29                           | 16.58             | 33.87                        |
| 1881         | —                                                             | 6,831,489                                                     | 107.05                                                                                           | 19.36                           | 20.86             | 40.22                        |
| 1882         | 9,379,074                                                     | —                                                             | 91.57                                                                                            | 21.47                           | 25.35             | 46.82                        |
| 1883         | 24,407,292                                                    | —                                                             | 79.97                                                                                            | 19.78                           | 27.49             | 47.27                        |
| 1884         | 16,750,774                                                    | —                                                             | 84.19                                                                                            | 17.80                           | 23.63             | 41.43                        |
| 1885         | 12,544,394                                                    | —                                                             | 87.42                                                                                            | 17.43                           | 21.98             | 39.41                        |
| 1886         | 10,797,354                                                    | —                                                             | 88.75                                                                                            | 16.94                           | 20.92             | 37.86                        |
| 1887         | 15,596,968                                                    | —                                                             | 85.16                                                                                            | 17.46                           | 22.66             | 40.12                        |
| 1888         | 10,486,162                                                    | —                                                             | 89.58                                                                                            | 17.36                           | 21.47             | 38.83                        |
| 1889         | 21,187,285                                                    | —                                                             | 79.93                                                                                            | 16.94                           | 23.02             | 39.96                        |
| 1890         | 17,373,206                                                    | —                                                             | 84.44                                                                                            | 17.79                           | 23.30             | 41.09                        |
| 1891         | 14,063,585                                                    | —                                                             | 87.39                                                                                            | 18.31                           | 23.02             | 41.33                        |
| 1892         | 3,006,156                                                     | —                                                             | 97.39                                                                                            | 20.26                           | 23.55             | 43.81                        |
| 1893         | 740,176                                                       | —                                                             | 99.36                                                                                            | 21.37                           | 23.33             | 44.70                        |
| 1894         | —                                                             | 6,614,658                                                     | 106.06                                                                                           | 20.84                           | 21.88             | 42.72                        |
| 1895         | —                                                             | 8,637,593                                                     | 108.58                                                                                           | 20.43                           | 20.00             | 40.43                        |
| 1896         | —                                                             | 10,453,382                                                    | 110.40                                                                                           | 21.57                           | 20.72             | 42.29                        |
| 1897         | —                                                             | 27,839,876                                                    | 126.11                                                                                           | 24.04                           | 20.73             | 44.77                        |
| 1898         | —                                                             | 33,222,383                                                    | 126.30                                                                                           | 27.80                           | 24.29             | 52.09                        |
| 1899         | —                                                             | 5,458,464                                                     | 103.65                                                                                           | 26.12                           | 28.41             | 54.53                        |
| 1900         | —                                                             | 10,585,879                                                    | 106.13                                                                                           | 31.75                           | 32.44             | 64.19                        |
| 1901         | —                                                             | 16,578,224                                                    | 109.32                                                                                           | 32.84                           | 33.13             | 65.97                        |
| 1902         | —                                                             | 13,233,060                                                    | 106.73                                                                                           | 35.43                           | 35.56             | 70.99                        |
| 1903         | —                                                             | 134,952                                                       | 100.06                                                                                           | 37.79                           | 39.68             | 77.47                        |
| 1904         | 32,853,737                                                    | —                                                             | 86.53                                                                                            | 34.06                           | 41.87             | 75.93                        |
| 1905         | 50,492,153                                                    | —                                                             | 79.96                                                                                            | 31.85                           | 42.05             | 73.90                        |
| 1906         | 37,082,478                                                    | —                                                             | 86.93                                                                                            | 38.16                           | 45.98             | 84.14                        |
| 1907         | 58,138,602                                                    | —                                                             | 76.77                                                                                            | 28.65                           | 39.70             | 68.35                        |
| 1908         | 89,171,927                                                    | —                                                             | 74.71                                                                                            | 38.05                           | 54.31             | 92.36                        |
| 1909         | 28,671,830                                                    | —                                                             | 90.06                                                                                            | 36.24                           | 43.10             | 79.34                        |
| 1910         | 71,554,200                                                    | —                                                             | 80.68                                                                                            | 40.37                           | 53.54             | 93.91                        |
| 1911         | 162,724,393                                                   | —                                                             | 64.06                                                                                            | 38.06                           | 62.82             | 100.88                       |
| 1912         | 214,688,524                                                   | —                                                             | 58.90                                                                                            | 39.40                           | 70.93             | 110.33                       |
| 1913         | 294,138,879                                                   | —                                                             | 56.18                                                                                            | 47.26                           | 89.17             | 136.43                       |
| 1914         | 163,756,774                                                   | —                                                             | 73.56                                                                                            | 56.10                           | 80.49             | 136.59                       |
| 1915         | —                                                             | 5,486,601                                                     | 101.20                                                                                           | 52.08                           | 57.99             | 110.07                       |
| 1916         | —                                                             | 271,098,936                                                   | 153.34                                                                                           | 92.29                           | 63.24             | 155.53                       |
| 1917         | —                                                             | 332,760,222                                                   | 139.31                                                                                           | 140.75                          | 103.48            | 244.23                       |
| 1918         | —                                                             | 622,637,214                                                   | 164.62                                                                                           | 184.91                          | 115.69            | 300.60                       |
| 1919         | —                                                             | 349,053,580                                                   | 137.95                                                                                           | 143.48                          | 108.48            | 251.96                       |
| 1920         | —                                                             | 222,130,586                                                   | 120.87                                                                                           | 143.61                          | 123.34            | 266.95                       |
| 1921         | 29,730,763                                                    | —                                                             | 97.60                                                                                            | 135.32                          | 141.20            | 276.52                       |
| 1922         | —                                                             | 6,122,677                                                     | 100.82                                                                                           | 83.00                           | 83.84             | 166.84                       |
| 1923         | —                                                             | 142,716,593                                                   | 117.78                                                                                           | 103.39                          | 89.09             | 192.48                       |
| 1924         | —                                                             | 165,396,430                                                   | 118.51                                                                                           | 114.35                          | 97.72             | 212.07                       |
| 1925         | —                                                             | 284,429,106                                                   | 135.69                                                                                           | 115.04                          | 85.76             | 200.80                       |
| 1926         | —                                                             | 401,371,405                                                   | 143.28                                                                                           | 139.19                          | 98.13             | 237.32                       |
| 1927         | —                                                             | 236,680,637                                                   | 122.82                                                                                           | 129.96                          | 106.99            | 236.95                       |
| 1928         | —                                                             | 141,641,568                                                   | 112.76                                                                                           | 124.92                          | 112.78            | 237.70                       |
| 1929         | —                                                             | 123,216,984                                                   | 109.72                                                                                           | 136.00                          | 126.23            | 262.23                       |
| 1930         | 103,335,512                                                   | —                                                             | 91.72                                                                                            | 117.83                          | 122.31            | 240.14                       |
| 1931         | 89,584,647                                                    | —                                                             | 90.12                                                                                            | 77.09                           | 87.39             | 164.48                       |
| 1932         | —                                                             | 9,061,613                                                     | 100.16                                                                                           | 54.86                           | 55.06             | 109.92                       |
| 1933         | —                                                             | 74,330,053                                                    | 118.28                                                                                           | 44.36                           | 38.05             | 82.41                        |
| 1934         | —                                                             | 151,855,844                                                   | 135.00                                                                                           | 53.47                           | 40.04             | 93.51                        |

<sup>1</sup> Nine months.      <sup>2</sup> Not including exports of foreign produce.

## 3.—Movement of Coin and Bullion, fiscal years 1868-1934.

NOTE.—Up to 1919 "silver bullion in bars, blocks, ingots, drops, sheets and plates, unmanufactured" was included in "coin and bullion" but since that time it has been regarded as "merchandise". The figures from 1899 have been revised in accordance with the new arrangement.

| Fiscal Year.         | Total Imports. | Exports.   |             |             | Total Imports and Exports of Coin and Bullion. |
|----------------------|----------------|------------|-------------|-------------|------------------------------------------------|
|                      |                | Canadian.  | Foreign.    | Total.      |                                                |
|                      | \$             | \$         | \$          | \$          | \$                                             |
| 1868.....            | 4,895,147      | 4,866,168  | —           | 4,866,168   | 9,761,315                                      |
| 1869.....            | 4,247,229      | 4,218,208  | —           | 4,218,208   | 8,465,437                                      |
| 1870.....            | 4,335,529      | 8,002,278  | —           | 8,002,278   | 12,337,807                                     |
| 1871.....            | 2,733,094      | 6,690,350  | —           | 6,690,350   | 9,423,444                                      |
| 1872.....            | 2,753,740      | 4,010,398  | —           | 4,010,398   | 6,764,147                                      |
| 1873.....            | 3,005,465      | 3,845,987  | —           | 3,845,987   | 6,851,452                                      |
| 1874.....            | 4,223,282      | 1,995,835  | —           | 1,995,835   | 6,219,117                                      |
| 1875.....            | 2,210,089      | 1,039,837  | —           | 1,039,837   | 3,249,926                                      |
| 1876.....            | 2,220,111      | 1,240,037  | —           | 1,240,037   | 3,460,148                                      |
| 1877.....            | 2,174,089      | —          | 733,739     | 733,739     | 2,907,828                                      |
| 1878.....            | 803,726        | —          | 168,989     | 168,989     | 972,715                                        |
| 1879.....            | 1,639,089      | —          | 704,586     | 704,586     | 2,343,675                                      |
| 1880.....            | 1,881,807      | —          | 1,771,755   | 1,771,755   | 3,653,562                                      |
| 1881.....            | 1,123,275      | —          | 971,005     | 971,005     | 2,094,280                                      |
| 1882.....            | 1,503,743      | —          | 371,093     | 371,093     | 1,874,836                                      |
| 1883.....            | 1,275,523      | —          | 631,600     | 631,600     | 1,907,123                                      |
| 1884.....            | 2,207,666      | —          | 2,184,292   | 2,184,292   | 4,391,958                                      |
| 1885.....            | 2,954,244      | —          | 2,026,980   | 2,026,980   | 4,981,224                                      |
| 1886.....            | 3,610,557      | —          | 56,531      | 56,531      | 3,667,088                                      |
| 1887.....            | 532,218        | —          | 5,569       | 5,569       | 537,787                                        |
| 1888.....            | 2,175,472      | —          | 17,534      | 17,534      | 2,193,006                                      |
| 1889.....            | 575,251        | —          | 1,978,256   | 1,978,256   | 2,553,507                                      |
| 1890.....            | 1,083,011      | —          | 2,439,782   | 2,439,782   | 3,522,793                                      |
| 1891.....            | 1,811,170      | 129,328    | 817,599     | 946,927     | 2,758,097                                      |
| 1892.....            | 1,818,530      | 306,447    | 1,502,671   | 1,809,118   | 3,627,648                                      |
| 1893.....            | 6,554,200      | 309,459    | 3,824,239   | 4,133,698   | 10,667,898                                     |
| 1894.....            | 4,023,072      | 310,006    | 1,529,374   | 1,839,380   | 5,862,452                                      |
| 1895.....            | 4,576,620      | 256,571    | 4,068,748   | 4,235,319   | 8,901,939                                      |
| 1896.....            | 5,226,319      | 207,532    | 4,491,777   | 4,699,309   | 9,925,628                                      |
| 1897.....            | 4,676,194      | 327,298    | 3,165,252   | 3,492,550   | 8,168,744                                      |
| 1898.....            | 4,390,844      | 1,045,723  | 3,577,415   | 4,623,138   | 9,013,982                                      |
| 1899.....            | 4,629,177      | 1,101,245  | 2,914,780   | 4,016,025   | 8,645,202                                      |
| 1900.....            | 8,152,640      | 1,670,068  | 6,987,100   | 8,657,168   | 16,809,808                                     |
| 1901.....            | 3,307,069      | —          | 1,978,489   | 1,978,489   | 5,285,558                                      |
| 1902.....            | 6,053,791      | —          | 1,669,422   | 1,669,422   | 7,723,213                                      |
| 1903.....            | 8,695,707      | —          | 619,963     | 619,963     | 9,315,670                                      |
| 1904.....            | 7,554,917      | —          | 2,465,557   | 2,465,557   | 10,020,474                                     |
| 1905.....            | 9,961,340      | —          | 1,844,811   | 1,844,811   | 11,806,151                                     |
| 1906.....            | 6,670,527      | —          | 9,928,828   | 9,928,828   | 16,549,355                                     |
| 1907 (9 months)..... | 7,029,047      | —          | 13,189,964  | 13,189,964  | 20,219,011                                     |
| 1908.....            | 5,887,737      | —          | 16,637,654  | 16,637,654  | 22,525,391                                     |
| 1909.....            | 9,611,761      | 2          | 1,589,791   | 1,589,793   | 11,201,554                                     |
| 1910.....            | 5,514,817      | —          | 2,594,536   | 2,594,536   | 8,109,353                                      |
| 1911.....            | 9,226,715      | —          | 7,196,155   | 7,196,155   | 16,422,870                                     |
| 1912.....            | 25,077,515     | —          | 7,601,099   | 7,601,099   | 32,678,614                                     |
| 1913.....            | 4,309,811      | —          | 16,163,702  | 16,163,702  | 20,473,513                                     |
| 1914.....            | 14,498,451     | 1,219      | 23,559,485  | 23,560,704  | 38,059,155                                     |
| 1915.....            | 31,483,396     | 667        | 29,365,701  | 29,366,368  | 60,849,764                                     |
| 1916.....            | 33,876,227     | 315        | 103,572,117 | 103,572,432 | 137,448,659                                    |
| 1917.....            | 20,986,548     | 86,087     | 196,460,961 | 196,547,048 | 223,533,596                                    |
| 1918.....            | 11,290,341     | 290,281    | 3,201,122   | 3,491,403   | 14,781,744                                     |
| 1919.....            | —              | —          | —           | —           | —                                              |
| 1920.....            | 50,463,494     | 230,117    | 49,815,279  | 50,045,396  | 100,508,890                                    |
| 1921.....            | 7,218,775      | 24,368,846 | 9,815,827   | 34,184,673  | 41,403,448                                     |
| 1922.....            | 4,788,246      | 18,085,904 | 5,251,430   | 23,337,331  | 28,125,577                                     |
| 1923.....            | 26,455,231     | 1,766,060  | 25,782,806  | 27,548,866  | 54,004,097                                     |
| 1924.....            | 3,496,705      | 12,521,619 | 12,024,211  | 25,445,830  | 28,942,535                                     |
| 1925.....            | 4,142,292      | 2,948,353  | 1,971,620   | 4,919,973   | 9,062,265                                      |
| 1926.....            | 51,437,859     | 45,880,408 | 25,242,303  | 71,122,711  | 122,560,570                                    |
| 1927.....            | 46,086,458     | 2,011,391  | 43,040,819  | 45,052,210  | 91,138,668                                     |
| 1928.....            | 31,308,807     | 30,855,656 | 31,031,311  | 61,886,967  | 93,195,774                                     |
| 1929.....            | 29,560,310     | 36,932,465 | 58,299,998  | 95,232,463  | 124,792,773                                    |
| 1930.....            | 2,716,218      | 410,435    | 4,494,783   | 4,905,218   | 7,621,436                                      |
| 1931.....            | 39,126,924     | 80         | 44,996,512  | 44,996,592  | 84,123,518                                     |
| 1932.....            | 1,815,016      | 44,994,578 | 22,860,214  | 67,854,792  | 69,669,808                                     |
| 1933.....            | 1,011,685      | 50,722,602 | 6,842,342   | 57,564,944  | 58,576,629                                     |
| 1934.....            | 849,290        | 64,952,531 | 2,749,629   | 67,702,160  | 68,551,450                                     |

<sup>1</sup> No record of 1919 imports and exports.



#### 4.—Duties Collected on Exports, 1868-92, and on Imports for Home Consumption, 1868-1934, with Percentages of Expense of Collection to Gross Customs Revenue Collected, fiscal years 1868-1934.

NOTE.—Duties on exports were not collected after the year 1892. The figures in this table are the gross figures of duties collected; the net national revenue from customs taxation, because of the drawbacks paid where commodities on which duties have been collected are afterwards exported in a more highly manufactured state, is considerably smaller. For net customs revenue see statistics of revenue from customs duties, in the historical revenue table in Chapter XXI on Public Finance.

| Fiscal Year. | Duties Collected on Exports. | Duties Collected on Imports. | Percentage of Expense of Collection to Gross Customs Revenue. | Fiscal Year. | Duties Collected on Exports. | Duties Collected on Imports. | Percentage of Expense of Collection to Gross Customs Revenue. |
|--------------|------------------------------|------------------------------|---------------------------------------------------------------|--------------|------------------------------|------------------------------|---------------------------------------------------------------|
|              | \$                           | \$                           | p.c.                                                          |              | \$                           | \$                           | p.c.                                                          |
| 1868.....    | 17,986                       | 8,801,446                    | 5.99                                                          | 1881.....    | 8,141                        | 18,492,645                   | 3.87                                                          |
| 1869.....    | 14,403                       | 8,284,507                    | 7.09                                                          | 1882.....    | 8,810                        | 21,700,028                   | 3.33                                                          |
| 1870.....    | 37,912                       | 9,425,028                    | 5.41                                                          | 1883.....    | 9,756                        | 23,162,553                   | 3.26                                                          |
| 1871.....    | 36,066                       | 11,807,590                   | 4.21                                                          | 1884.....    | 8,515                        | 20,156,448                   | 3.96                                                          |
| 1872.....    | 24,809                       | 13,020,684                   | 4.04                                                          | 1885.....    | 12,305                       | 19,121,254                   | 4.14                                                          |
| 1873.....    | 20,152                       | 12,997,578                   | 4.35                                                          | 1886.....    | 20,726                       | 19,427,398                   | 4.10                                                          |
| 1874.....    | 14,565                       | 14,407,318                   | 4.55                                                          | 1887.....    | 31,397                       | 22,438,309                   | 3.64                                                          |
| 1875.....    | 7,243                        | 15,354,139                   | 4.44                                                          | 1888.....    | 21,772                       | 22,187,869                   | 3.81                                                          |
| 1876.....    | 4,500                        | 12,828,614                   | 5.61                                                          | 1889.....    | 42,207                       | 23,742,317                   | 3.62                                                          |
| 1877.....    | 4,103                        | 12,544,348                   | 5.75                                                          | 1890.....    | 93,674                       | 23,921,234                   | 3.63                                                          |
| 1878.....    | 4,161                        | 12,791,532                   | 5.58                                                          | 1891.....    | 64,803                       | 23,416,266                   | 3.83                                                          |
| 1879.....    | 4,272                        | 12,935,269                   | 5.56                                                          | 1892.....    | 108                          | 20,550,474                   | 4.39                                                          |
| 1880.....    | 8,896                        | 14,129,953                   | 5.04                                                          |              |                              |                              |                                                               |

| Fiscal Year. | Duties Collected on Imports. | Percentage of Expense of Collection to Gross Customs Revenue. | Fiscal Year.          | Duties Collected on Imports. | Percentage of Expense of Collection to Gross Customs Revenue. | Fiscal Year. | Duties Collected on Imports. | Percentage of Expense of Collection to Gross Customs Revenue. |
|--------------|------------------------------|---------------------------------------------------------------|-----------------------|------------------------------|---------------------------------------------------------------|--------------|------------------------------|---------------------------------------------------------------|
|              | \$                           | p.c.                                                          |                       | \$                           | p.c.                                                          |              | \$                           | p.c.                                                          |
| 1893.....    | 21,161,711                   | 4.26                                                          | 1907 <sup>2</sup> ... | 40,290,172                   | 3.04                                                          | 1921...      | 179,667,683 <sup>1</sup>     | 3.36                                                          |
| 1894.....    | 19,379,822                   | 4.75                                                          | 1908...               | 58,331,074                   | 3.30                                                          | 1922...      | 121,487,394 <sup>1</sup>     | 3.22                                                          |
| 1895.....    | 17,887,269                   | 5.13                                                          | 1909...               | 48,059,792                   | 4.15                                                          | 1923...      | 133,803,370 <sup>1</sup>     | 2.58                                                          |
| 1896.....    | 20,219,037                   | 4.43                                                          | 1910...               | 61,024,239                   | 3.31                                                          | 1924...      | 135,122,345                  | 2.49                                                          |
| 1897.....    | 19,891,997                   | 4.73                                                          | 1911...               | 73,312,368                   | 2.98                                                          | 1925...      | 120,222,454                  | 3.09                                                          |
| 1898.....    | 22,157,788                   | 4.37                                                          | 1912...               | 87,576,037                   | 2.78                                                          | 1926...      | 143,933,111                  | 2.83                                                          |
| 1899.....    | 25,734,229                   | 4.02                                                          | 1913...               | 115,063,688                  | 2.74                                                          | 1927...      | 158,966,367                  | 2.66                                                          |
| 1900.....    | 28,889,110                   | 3.71                                                          | 1914...               | 107,180,578                  | 3.59                                                          | 1928...      | 171,872,768                  | 3.09                                                          |
| 1901.....    | 29,106,980                   | 3.86                                                          | 1915...               | 79,205,910 <sup>1</sup>      | 4.77                                                          | 1929...      | 200,479,505                  | 3.02                                                          |
| 1902.....    | 32,425,532                   | 3.62                                                          | 1916...               | 103,940,101 <sup>1</sup>     | 3.55                                                          | 1930...      | 199,011,628                  | 3.30                                                          |
| 1903.....    | 37,110,355                   | 3.31                                                          | 1917...               | 147,631,455 <sup>1</sup>     | 2.54                                                          | 1931...      | 149,250,992                  | 4.45                                                          |
| 1904.....    | 40,954,349                   | 3.31                                                          | 1918...               | 161,595,629 <sup>1</sup>     | 2.51                                                          | 1932...      | 113,997,851                  | 4.87                                                          |
| 1905.....    | 42,024,340                   | 3.49                                                          | 1919...               | 158,046,334 <sup>1</sup>     | 3.13                                                          | 1933...      | 77,271,965                   | 3.86                                                          |
| 1906.....    | 46,671,101                   | 3.31                                                          | 1920...               | 187,524,182 <sup>1</sup>     | 2.49                                                          | 1934...      | 73,154,472                   | 3.37                                                          |

<sup>1</sup> Includes war tax.    <sup>2</sup> Nine months.

5.—Exports to the United Kingdom, to the United States and to Other Countries, of Merchandise the Produce of Canada, fiscal years 1868-1934.

| Fiscal Year. | Exports to<br>United<br>Kingdom. | Per cent Cdn.<br>Exports to<br>U.K. to Total<br>Cdn. Exports.<br>(mdse.) | Exports to<br>United<br>States. | Per cent Cdn.<br>Exports to<br>U.S. to Total<br>Cdn. Exports.<br>(mdse.) | Exports to<br>Other<br>Countries. | Total<br>Exports of<br>Canadian<br>Produce. |
|--------------|----------------------------------|--------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------|-----------------------------------|---------------------------------------------|
|              | \$                               | p.c.                                                                     | \$                              | p.c.                                                                     | \$                                | \$                                          |
| 1868.....    | 17,905,808                       | 36.9                                                                     | 25,349,568                      | 52.3                                                                     | 5,249,433                         | 48,504,809                                  |
| 1869.....    | 20,486,389                       | 39.1                                                                     | 26,717,656                      | 51.0                                                                     | 5,196,727                         | 52,400,772                                  |
| 1870.....    | 22,512,991                       | 38.1                                                                     | 30,361,328                      | 51.4                                                                     | 6,169,271                         | 59,043,590                                  |
| 1871.....    | 21,733,556                       | 37.7                                                                     | 29,164,358                      | 50.6                                                                     | 6,732,110                         | 57,630,024                                  |
| 1872.....    | 25,223,785                       | 38.3                                                                     | 32,871,496                      | 49.9                                                                     | 7,735,802                         | 65,831,083                                  |
| 1873.....    | 31,402,234                       | 41.0                                                                     | 36,714,144                      | 48.0                                                                     | 8,421,647                         | 76,538,025                                  |
| 1874.....    | 35,769,190                       | 46.6                                                                     | 33,195,805                      | 43.3                                                                     | 7,777,002                         | 76,741,997                                  |
| 1875.....    | 34,199,134                       | 49.1                                                                     | 27,902,748                      | 40.0                                                                     | 7,607,941                         | 69,709,823                                  |
| 1876.....    | 34,379,005                       | 47.4                                                                     | 30,080,738                      | 41.5                                                                     | 8,031,694                         | 72,491,437                                  |
| 1877.....    | 35,491,671                       | 52.2                                                                     | 24,326,332                      | 35.8                                                                     | 8,212,543                         | 68,030,546                                  |
| 1878.....    | 35,861,110                       | 52.7                                                                     | 24,381,009                      | 35.9                                                                     | 7,747,681                         | 67,989,800                                  |
| 1879.....    | 29,393,424                       | 47.1                                                                     | 25,491,356                      | 40.8                                                                     | 7,546,245                         | 62,431,025                                  |
| 1880.....    | 35,208,031                       | 48.3                                                                     | 29,566,211                      | 40.6                                                                     | 8,125,455                         | 72,899,697                                  |
| 1881.....    | 42,637,219                       | 50.8                                                                     | 34,038,431                      | 40.5                                                                     | 7,269,051                         | 83,944,701                                  |
| 1882.....    | 39,816,813                       | 42.3                                                                     | 45,782,584                      | 48.6                                                                     | 8,538,260                         | 94,137,657                                  |
| 1883.....    | 39,538,067                       | 45.1                                                                     | 39,513,225                      | 45.1                                                                     | 8,651,139                         | 87,702,431                                  |
| 1884.....    | 37,410,870                       | 46.9                                                                     | 34,332,641                      | 43.0                                                                     | 8,089,587                         | 79,833,098                                  |
| 1885.....    | 36,479,051                       | 46.1                                                                     | 35,566,810                      | 44.9                                                                     | 7,085,874                         | 79,131,735                                  |
| 1886.....    | 36,694,263                       | 47.2                                                                     | 34,284,490                      | 44.1                                                                     | 6,777,951                         | 77,756,704                                  |
| 1887.....    | 38,714,331                       | 47.8                                                                     | 35,269,922                      | 43.6                                                                     | 6,976,656                         | 80,960,909                                  |
| 1888.....    | 33,648,284                       | 41.3                                                                     | 40,407,483                      | 49.6                                                                     | 7,326,305                         | 81,382,072                                  |
| 1889.....    | 33,504,281                       | 41.7                                                                     | 39,519,940                      | 49.2                                                                     | 7,248,235                         | 80,272,456                                  |
| 1890.....    | 41,499,149                       | 48.7                                                                     | 36,213,279                      | 42.5                                                                     | 7,645,158                         | 85,257,586                                  |
| 1891.....    | 43,243,784                       | 48.8                                                                     | 37,743,430                      | 42.6                                                                     | 7,684,524                         | 88,671,738                                  |
| 1892.....    | 54,949,055                       | 55.5                                                                     | 34,666,070                      | 35.0                                                                     | 9,417,341                         | 99,032,466                                  |
| 1893.....    | 58,409,606                       | 55.4                                                                     | 37,296,110                      | 35.4                                                                     | 9,783,082                         | 105,488,798                                 |
| 1894.....    | 60,878,056                       | 58.6                                                                     | 32,562,509                      | 31.4                                                                     | 10,411,199                        | 103,851,764                                 |
| 1895.....    | 57,903,564                       | 56.3                                                                     | 35,603,863                      | 34.6                                                                     | 9,321,014                         | 102,828,441                                 |
| 1896.....    | 62,717,941                       | 57.2                                                                     | 37,789,481                      | 34.4                                                                     | 9,200,383                         | 109,707,805                                 |
| 1897.....    | 69,533,852                       | 56.2                                                                     | 43,664,187                      | 35.3                                                                     | 10,434,501                        | 123,632,540                                 |
| 1898.....    | 93,065,019                       | 64.4                                                                     | 38,989,525                      | 27.0                                                                     | 12,494,118                        | 144,548,662                                 |
| 1899.....    | 85,113,681                       | 62.0                                                                     | 39,326,485                      | 29.0                                                                     | 12,920,626                        | 137,360,792                                 |
| 1900.....    | 96,562,875                       | 57.1                                                                     | 57,996,488                      | 34.2                                                                     | 14,412,938                        | 168,972,301                                 |
| 1901.....    | 92,857,525                       | 52.3                                                                     | 67,983,673                      | 38.3                                                                     | 16,590,188                        | 177,431,386                                 |
| 1902.....    | 109,347,345                      | 55.8                                                                     | 66,567,754                      | 34.0                                                                     | 20,104,634                        | 196,019,763                                 |
| 1903.....    | 125,199,980                      | 58.4                                                                     | 67,766,367                      | 31.6                                                                     | 21,435,327                        | 214,401,674                                 |
| 1904.....    | 110,120,892                      | 55.6                                                                     | 66,856,885                      | 33.7                                                                     | 21,436,662                        | 198,414,439                                 |
| 1905.....    | 97,114,867                       | 50.9                                                                     | 70,426,765                      | 36.9                                                                     | 23,313,314                        | 190,854,946                                 |
| 1906.....    | 127,456,465                      | 54.1                                                                     | 83,546,306                      | 35.5                                                                     | 24,481,185                        | 235,483,956                                 |
| 1907.....    | 98,691,186                       | 54.7                                                                     | 62,180,439                      | 34.4                                                                     | 19,673,681                        | 180,545,306                                 |
| 1908.....    | 126,184,124                      | 51.1                                                                     | 90,814,871                      | 36.8                                                                     | 29,951,973                        | 246,960,968                                 |
| 1909.....    | 126,384,724                      | 52.1                                                                     | 85,334,806                      | 35.2                                                                     | 30,884,054                        | 242,603,584                                 |
| 1910.....    | 139,482,945                      | 50.0                                                                     | 104,199,675                     | 37.3                                                                     | 35,564,931                        | 279,247,551                                 |
| 1911.....    | 132,156,924                      | 48.2                                                                     | 104,115,823                     | 38.0                                                                     | 38,043,866                        | 274,316,553                                 |
| 1912.....    | 147,240,413                      | 50.7                                                                     | 102,041,222                     | 35.2                                                                     | 40,942,222                        | 290,223,857                                 |
| 1913.....    | 170,161,903                      | 47.8                                                                     | 139,725,953                     | 39.3                                                                     | 45,866,744                        | 355,754,600                                 |
| 1914.....    | 215,253,969                      | 49.9                                                                     | 163,372,825                     | 37.9                                                                     | 52,961,645                        | 431,588,439                                 |
| 1915.....    | 186,668,554                      | 45.6                                                                     | 173,320,216                     | 42.3                                                                     | 49,430,066                        | 409,418,836                                 |
| 1916.....    | 451,852,399                      | 60.9                                                                     | 201,106,488                     | 27.1                                                                     | 88,651,751                        | 741,610,638                                 |
| 1917.....    | 742,147,537                      | 64.5                                                                     | 280,616,330                     | 24.4                                                                     | 128,611,901                       | 1,151,375,768                               |
| 1918.....    | 845,480,069                      | 54.9                                                                     | 417,233,287                     | 27.0                                                                     | 227,314,432                       | 1,540,027,788                               |
| 1919.....    | 540,750,977                      | 44.5                                                                     | 454,873,170                     | 37.4                                                                     | 220,819,659                       | 1,216,443,806                               |
| 1920.....    | 489,152,637                      | 39.5                                                                     | 464,028,183                     | 37.4                                                                     | 286,311,278                       | 1,239,492,098                               |
| 1921.....    | 312,844,871                      | 26.3                                                                     | 542,322,967                     | 45.6                                                                     | 333,995,863                       | 1,189,163,701                               |
| 1922.....    | 299,361,675                      | 40.4                                                                     | 292,588,643                     | 39.5                                                                     | 148,290,362                       | 740,240,680                                 |
| 1923.....    | 379,067,445                      | 40.7                                                                     | 369,080,218                     | 39.6                                                                     | 183,303,780                       | 931,451,443                                 |
| 1924.....    | 360,057,782                      | 34.4                                                                     | 430,707,544                     | 41.2                                                                     | 254,585,730                       | 1,045,351,056                               |
| 1925.....    | 305,843,433                      | 37.0                                                                     | 417,417,144                     | 39.0                                                                     | 255,806,766                       | 1,069,067,353                               |
| 1926.....    | 508,237,560                      | 38.6                                                                     | 474,987,367                     | 36.1                                                                     | 332,130,864                       | 1,315,355,791                               |
| 1927.....    | 446,872,851                      | 35.7                                                                     | 466,422,789                     | 37.3                                                                     | 338,861,866                       | 1,252,157,506                               |
| 1928.....    | 410,691,392                      | 33.4                                                                     | 478,145,383                     | 38.9                                                                     | 339,512,568                       | 1,228,349,343                               |
| 1929.....    | 429,730,485                      | 31.5                                                                     | 496,612,145                     | 36.7                                                                     | 434,367,042                       | 1,363,709,672                               |
| 1930.....    | 281,745,965                      | 25.2                                                                     | 515,049,763                     | 46.0                                                                     | 323,462,574                       | 1,120,258,302                               |
| 1931.....    | 219,246,499                      | 27.4                                                                     | 349,660,563                     | 43.7                                                                     | 230,835,605                       | 799,742,667                                 |
| 1932.....    | 174,043,725                      | 30.2                                                                     | 235,186,674                     | 40.8                                                                     | 167,113,903                       | 576,344,302                                 |
| 1933.....    | 184,361,019                      | 38.9                                                                     | 143,160,400                     | 30.2                                                                     | 146,278,536                       | 473,799,955                                 |
| 1934.....    | 227,601,411                      | 39.3                                                                     | 194,443,139                     | 33.6                                                                     | 157,298,595                       | 579,343,145                                 |

<sup>1</sup> Nine months.

**6.—Imports from the United Kingdom, from the United States and from Other Countries, of Merchandise Entered for Home Consumption, fiscal years 1868-1934.**

| Fiscal Year.      | Imports from United Kingdom. | Per cent Imports from U.K. to Total Imports. (mdse.) | Imports from United States. | Per cent Imports from U.S. to Total Imports. (mdse.) | Imports from Other Countries. | Total Imports for Home Consumption. |
|-------------------|------------------------------|------------------------------------------------------|-----------------------------|------------------------------------------------------|-------------------------------|-------------------------------------|
|                   | \$                           | p.c.                                                 | \$                          | p.c.                                                 | \$                            | \$                                  |
| 1868              | 37,617,325                   | 56-1                                                 | 22,660,132                  | 33-8                                                 | 6,812,702                     | 67,090,159                          |
| 1869              | 35,496,764                   | 56-2                                                 | 21,497,380                  | 34-0                                                 | 6,160,797                     | 63,154,941                          |
| 1870              | 37,537,095                   | 56-1                                                 | 21,697,237                  | 32-4                                                 | 7,667,742                     | 66,902,074                          |
| 1871              | 48,498,202                   | 57-6                                                 | 27,185,586                  | 32-3                                                 | 8,530,600                     | 84,214,388                          |
| 1872              | 62,209,254                   | 59-7                                                 | 33,741,995                  | 32-1                                                 | 9,004,118                     | 104,955,367                         |
| 1873              | 67,996,945                   | 54-6                                                 | 45,189,110                  | 36-3                                                 | 11,323,074                    | 124,509,129                         |
| 1874              | 61,424,407                   | 49-9                                                 | 51,706,906                  | 42-0                                                 | 10,049,574                    | 123,180,887                         |
| 1875              | 60,009,084                   | 51-1                                                 | 48,930,358                  | 41-7                                                 | 8,469,126                     | 117,408,568                         |
| 1876              | 40,479,253                   | 43-8                                                 | 44,099,880                  | 47-7                                                 | 7,933,974                     | 92,513,107                          |
| 1877              | 39,331,621                   | 41-8                                                 | 49,376,008                  | 52-5                                                 | 5,418,765                     | 94,126,394                          |
| 1878              | 37,252,769                   | 41-2                                                 | 48,002,875                  | 53-1                                                 | 5,140,207                     | 90,395,851                          |
| 1879              | 30,967,778                   | 39-3                                                 | 42,170,306                  | 53-6                                                 | 5,564,435                     | 78,702,519                          |
| 1880              | 33,764,439                   | 48-3                                                 | 28,193,783                  | 40-3                                                 | 7,942,320                     | 69,900,542                          |
| 1881              | 42,885,142                   | 47-4                                                 | 36,338,701                  | 40-6                                                 | 11,264,486                    | 90,488,329                          |
| 1882              | 50,356,268                   | 45-3                                                 | 47,052,935                  | 42-3                                                 | 13,735,981                    | 111,145,184                         |
| 1883              | 51,679,762                   | 42-4                                                 | 55,147,243                  | 45-3                                                 | 15,034,491                    | 121,861,496                         |
| 1884              | 41,925,121                   | 39-6                                                 | 49,785,888                  | 47-0                                                 | 14,261,969                    | 105,972,978                         |
| 1885              | 40,031,448                   | 40-1                                                 | 45,576,510                  | 45-7                                                 | 14,147,817                    | 99,755,775                          |
| 1886              | 39,033,006                   | 40-7                                                 | 42,818,651                  | 44-6                                                 | 14,140,480                    | 95,992,137                          |
| 1887              | 44,741,350                   | 42-6                                                 | 44,795,908                  | 42-6                                                 | 15,569,952                    | 105,107,210                         |
| 1888              | 39,167,644                   | 38-9                                                 | 46,440,296                  | 46-1                                                 | 15,063,688                    | 100,671,628                         |
| 1889              | 42,251,189                   | 38-7                                                 | 50,029,419                  | 45-9                                                 | 16,817,588                    | 109,098,196                         |
| 1890              | 43,277,009                   | 28-8                                                 | 51,365,661                  | 46-0                                                 | 17,039,903                    | 111,682,573                         |
| 1891              | 42,018,943                   | 37-7                                                 | 52,033,477                  | 46-7                                                 | 17,481,534                    | 111,533,954                         |
| 1892              | 41,063,731                   | 35-7                                                 | 51,742,132                  | 44-9                                                 | 22,354,570                    | 115,160,413                         |
| 1893              | 42,529,340                   | 36-0                                                 | 52,339,796                  | 45-4                                                 | 20,301,694                    | 115,170,830                         |
| 1894              | 37,035,963                   | 34-0                                                 | 50,746,091                  | 46-5                                                 | 21,288,857                    | 109,070,911                         |
| 1895              | 31,059,332                   | 30-9                                                 | 50,179,004                  | 49-8                                                 | 19,437,555                    | 100,675,891                         |
| 1896              | 32,824,505                   | 31-2                                                 | 53,529,390                  | 50-8                                                 | 19,007,266                    | 105,361,161                         |
| 1897              | 29,401,188                   | 27-6                                                 | 57,023,342                  | 53-5                                                 | 20,193,297                    | 106,617,827                         |
| 1898              | 32,043,461                   | 25-4                                                 | 74,824,923                  | 59-2                                                 | 19,438,778                    | 126,307,162                         |
| 1899              | 36,966,552                   | 24-7                                                 | 88,506,881                  | 59-2                                                 | 23,948,983                    | 149,422,416                         |
| 1900              | 44,280,041                   | 25-7                                                 | 102,224,917                 | 59-2                                                 | 26,146,718                    | 172,651,676                         |
| 1901              | 42,820,334                   | 24-1                                                 | 107,377,906                 | 60-3                                                 | 27,732,679                    | 177,930,919                         |
| 1902              | 49,022,726                   | 25-0                                                 | 115,001,533                 | 58-4                                                 | 32,713,546                    | 196,737,804                         |
| 1903              | 58,793,038                   | 26-2                                                 | 129,071,197                 | 57-3                                                 | 37,230,574                    | 225,094,809                         |
| 1904              | 61,724,893                   | 25-3                                                 | 143,329,697                 | 58-7                                                 | 38,854,825                    | 243,909,415                         |
| 1905              | 60,342,704                   | 24-0                                                 | 152,778,576                 | 60-6                                                 | 38,842,934                    | 251,964,214                         |
| 1906              | 69,183,915                   | 24-4                                                 | 169,256,452                 | 59-6                                                 | 45,299,913                    | 283,740,280                         |
| 1907 <sup>1</sup> | 64,415,756                   | 25-8                                                 | 149,085,577                 | 59-5                                                 | 36,724,502                    | 250,225,835                         |
| 1908              | 94,417,320                   | 26-8                                                 | 205,309,803                 | 58-2                                                 | 52,813,756                    | 352,540,879                         |
| 1909              | 70,682,600                   | 24-5                                                 | 170,432,360                 | 59-0                                                 | 47,479,236                    | 288,594,196                         |
| 1910              | 95,337,058                   | 25-8                                                 | 218,004,556                 | 58-9                                                 | 56,976,585                    | 370,318,199                         |
| 1911              | 109,034,753                  | 24-3                                                 | 275,824,265                 | 60-8                                                 | 66,965,585                    | 452,724,603                         |
| 1912              | 116,903,360                  | 22-4                                                 | 331,384,657                 | 63-4                                                 | 74,113,658                    | 522,404,675                         |
| 1913              | 138,742,644                  | 20-7                                                 | 436,887,315                 | 65-0                                                 | 95,577,275                    | 671,207,234                         |
| 1914              | 132,070,406                  | 21-4                                                 | 396,302,138                 | 64-0                                                 | 90,821,454                    | 619,193,998                         |
| 1915              | 90,157,204                   | 19-8                                                 | 297,142,059                 | 65-2                                                 | 68,656,645                    | 455,955,908                         |
| 1916              | 77,404,361                   | 15-2                                                 | 370,880,549                 | 73-0                                                 | 59,916,224                    | 508,201,134                         |
| 1917              | 107,096,735                  | 12-7                                                 | 665,312,759                 | 78-6                                                 | 74,041,384                    | 846,450,878                         |
| 1918              | 81,324,283                   | 8-4                                                  | 792,894,957                 | 82-3                                                 | 89,313,338                    | 963,532,578                         |
| 1919              | 73,035,118                   | 8-0                                                  | 750,203,024                 | 81-6                                                 | 96,473,563                    | 919,711,705                         |
| 1920              | 126,362,631                  | 11-9                                                 | 801,087,318                 | 75-3                                                 | 137,068,174                   | 1,064,528,123                       |
| 1921              | 213,973,562                  | 17-3                                                 | 856,176,820                 | 69-0                                                 | 170,008,500                   | 1,240,158,882                       |
| 1922              | 117,135,343                  | 15-7                                                 | 515,958,196                 | 69-0                                                 | 114,710,793                   | 747,804,332                         |
| 1923              | 141,330,143                  | 17-6                                                 | 540,899,738                 | 67-4                                                 | 120,259,363                   | 802,579,244                         |
| 1924              | 153,586,690                  | 17-2                                                 | 601,256,447                 | 67-3                                                 | 138,523,730                   | 893,366,867                         |
| 1925              | 151,083,946                  | 19-0                                                 | 509,780,009                 | 64-0                                                 | 136,068,582                   | 796,932,537                         |
| 1926              | 163,731,210                  | 17-6                                                 | 608,618,542                 | 65-6                                                 | 154,978,980                   | 927,328,732                         |
| 1927              | 163,939,065                  | 15-9                                                 | 687,022,521                 | 66-6                                                 | 179,930,919                   | 1,030,892,505                       |
| 1928              | 186,435,824                  | 16-7                                                 | 718,896,270                 | 64-9                                                 | 203,624,372                   | 1,108,956,466                       |
| 1929              | 194,041,381                  | 15-3                                                 | 868,012,229                 | 68-6                                                 | 203,625,481                   | 1,265,679,091                       |
| 1930              | 189,179,738                  | 15-2                                                 | 847,442,037                 | 67-9                                                 | 211,651,807                   | 1,248,273,582                       |
| 1931              | 149,497,392                  | 16-5                                                 | 584,407,018                 | 64-5                                                 | 172,708,285                   | 906,612,695                         |
| 1932              | 106,371,779                  | 18-4                                                 | 351,686,775                 | 60-8                                                 | 120,445,350                   | 578,503,904                         |
| 1933              | 86,466,055                   | 21-3                                                 | 232,548,055                 | 57-2                                                 | 87,369,634                    | 406,383,744                         |
| 1934              | 105,100,764                  | 24-2                                                 | 238,187,681                 | 54-9                                                 | 90,510,180                    | 433,798,625                         |

<sup>1</sup> Nine months.



### 7.—Percentage Proportions of Imports from the United Kingdom and the United States, respectively, to Totals of Dutiable and Free in the fiscal years 1911-34.

NOTE.—For the years 1868 to 1910, see Canada Year Book, 1927-28, p. 499.

| Fiscal Year ended Mar. 31. | United Kingdom.             |                     |                                   | United States.              |                     |                                   |
|----------------------------|-----------------------------|---------------------|-----------------------------------|-----------------------------|---------------------|-----------------------------------|
|                            | Dutiable to Total Dutiable. | Free to Total Free. | Dutiable and Free to All Imports. | Dutiable to Total Dutiable. | Free to Total Free. | Dutiable and Free to All Imports. |
|                            | p.c.                        | p.c.                | p.c.                              | p.c.                        | p.c.                | p.c.                              |
| 1911.....                  | 29.82                       | 15.05               | 24.34                             | 54.14                       | 72.05               | 60.84                             |
| 1912.....                  | 26.69                       | 14.72               | 22.42                             | 58.72                       | 71.74               | 73.37                             |
| 1913.....                  | 24.47                       | 13.43               | 20.71                             | 62.57                       | 69.78               | 65.03                             |
| 1914.....                  | 24.95                       | 14.26               | 21.35                             | 60.81                       | 70.16               | 63.96                             |
| 1915.....                  | 24.31                       | 12.61               | 19.79                             | 60.27                       | 72.85               | 65.13                             |
| 1916.....                  | 17.97                       | 11.63               | 15.24                             | 68.93                       | 78.29               | 72.95                             |
| 1917.....                  | 16.35                       | 8.24                | 12.67                             | 71.91                       | 86.59               | 78.57                             |
| 1918.....                  | 10.70                       | 5.54                | 8.45                              | 79.61                       | 86.29               | 82.27                             |
| 1919.....                  | 9.50                        | 5.90                | 7.97                              | 79.10                       | 84.74               | 81.50                             |
| 1920.....                  | 13.44                       | 8.93                | 11.87                             | 72.04                       | 81.26               | 75.25                             |
| 1921.....                  | 20.07                       | 11.17               | 17.25                             | 64.19                       | 79.51               | 69.04                             |
| 1922.....                  | 19.20                       | 8.72                | 15.66                             | 62.97                       | 80.88               | 69.02                             |
| 1923.....                  | 21.61                       | 9.49                | 17.61                             | 61.85                       | 78.66               | 67.41                             |
| 1924.....                  | 21.32                       | 9.12                | 17.19                             | 60.20                       | 81.21               | 67.30                             |
| 1925.....                  | 24.16                       | 9.40                | 18.96                             | 55.63                       | 79.36               | 64.00                             |
| 1926.....                  | 22.83                       | 8.89                | 17.65                             | 57.97                       | 78.94               | 65.76                             |
| 1927.....                  | 20.44                       | 7.81                | 15.90                             | 59.52                       | 79.53               | 66.73                             |
| 1928.....                  | 21.13                       | 8.98                | 16.76                             | 58.59                       | 76.06               | 64.87                             |
| 1929.....                  | 18.82                       | 8.91                | 15.84                             | 63.82                       | 77.40               | 68.56                             |
| 1930.....                  | 18.14                       | 9.45                | 15.16                             | 63.88                       | 75.55               | 67.89                             |
| 1931.....                  | 18.91                       | 12.31               | 16.49                             | 62.65                       | 67.59               | 64.46                             |
| 1932.....                  | 20.51                       | 14.04               | 18.39                             | 59.11                       | 64.23               | 60.78                             |
| 1933.....                  | 21.71                       | 20.52               | 21.28                             | 56.07                       | 59.16               | 57.20                             |
| 1934.....                  | 22.77                       | 26.22               | 24.22                             | 55.85                       | 53.56               | 54.88                             |

### 8.—Average ad valorem Rates of Duty Collected on Dutiable and Total Imports from the United Kingdom, the United States and All Countries, fiscal years 1868-1934.

| Fiscal Year. | U.K.               |                 | U.S.               |                 | All Countries      |                 | Fiscal Year. | U.K.               |                 | U.S.               |                 | All Countries      |                 |
|--------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|--------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|
|              | Dutiable Im-ports. | Total Im-ports. | Dutiable Im-ports. | Total Im-ports. | Dutiable Im-ports. | Total Im-ports. |              | Dutiable Im-ports. | Total Im-ports. | Dutiable Im-ports. | Total Im-ports. | Dutiable Im-ports. | Total Im-ports. |
|              | p.c.               | p.c.            | p.c.               | p.c.            | p.c.               | p.c.            |              | p.c.               | p.c.            | p.c.               | p.c.            | p.c.               | p.c.            |
| 1868.....    | -                  | -               | -                  | -               | 20.2               | 13.1            | 1902.....    | 24.0               | 17.2            | 25.2               | 13.2            | 27.3               | 16.5            |
| 1869.....    | 16.9               | 13.5            | 20.1               | 7.3             | 20.2               | 13.1            | 1903.....    | 23.3               | 17.6            | 24.9               | 13.3            | 27.1               | 16.5            |
| 1870.....    | 16.8               | 13.4            | 19.5               | 7.8             | 20.9               | 14.1            | 1904.....    | 24.1               | 17.6            | 25.2               | 13.6            | 27.5               | 16.8            |
| 1871.....    | 16.4               | 13.5            | 16.3               | 8.4             | 19.6               | 14.0            | 1905.....    | 24.8               | 18.5            | 26.1               | 13.5            | 27.8               | 16.7            |
| 1872.....    | 16.4               | 12.7            | 18.0               | 7.1             | 19.1               | 12.4            | 1906.....    | 24.6               | 18.7            | 24.8               | 13.1            | 27.0               | 16.4            |
| 1873.....    | 15.6               | 10.9            | 17.7               | 6.5             | 18.3               | 10.4            | 1907 (9 ms.) | 24.3               | 18.4            | 24.2               | 12.8            | 26.5               | 16.1            |
| 1874.....    | 16.5               | 12.8            | 17.4               | 7.1             | 18.9               | 11.7            | 1908.....    | 24.2               | 18.3            | 24.6               | 13.2            | 26.7               | 16.5            |
| 1875.....    | 18.1               | 14.8            | 17.3               | 7.9             | 19.6               | 13.1            | 1909.....    | 25.8               | 19.0            | 24.9               | 13.2            | 27.5               | 16.7            |
| 1876.....    | 18.8               | 15.0            | 19.2               | 9.3             | 21.3               | 13.9            | 1910.....    | 25.1               | 18.9            | 24.8               | 13.5            | 26.8               | 16.5            |
| 1877.....    | 19.4               | 16.2            | 18.7               | 7.9             | 20.6               | 13.3            | 1911.....    | 24.6               | 18.9            | 24.7               | 13.7            | 25.9               | 16.2            |
| 1878.....    | 20.1               | 17.3            | 20.4               | 9.4             | 21.4               | 14.2            | 1912.....    | 25.0               | 19.1            | 25.0               | 14.8            | 26.1               | 16.8            |
| 1879.....    | 20.5               | 18.0            | 23.2               | 13.1            | 23.3               | 16.4            | 1913.....    | 25.1               | 19.6            | 24.9               | 15.8            | 26.1               | 17.1            |
| 1880.....    | 24.0               | 20.0            | 23.1               | 16.0            | 26.1               | 20.2            | 1914.....    | 25.2               | 19.5            | 24.8               | 15.6            | 26.1               | 17.3            |
| 1881.....    | 24.5               | 20.5            | 22.0               | 15.5            | 25.8               | 20.4            | 1915.....    | 27.1               | 20.5            | 25.1               | 14.2            | 27.4               | 16.8            |
| 1882.....    | 24.1               | 19.9            | 21.5               | 15.0            | 25.1               | 19.5            | 1916.....    | 28.4               | 19.1            | 25.0               | 13.5            | 27.2               | 15.5            |
| 1883.....    | 24.3               | 19.2            | 21.1               | 14.8            | 25.3               | 19.0            | 1917.....    | 24.9               | 17.6            | 22.7               | 11.4            | 23.8               | 13.0            |
| 1884.....    | 24.4               | 19.1            | 20.7               | 14.9            | 25.2               | 19.0            | 1918.....    | 24.3               | 17.3            | 20.5               | 11.1            | 21.5               | 12.1            |
| 1885.....    | 24.8               | 19.0            | 21.2               | 14.5            | 26.1               | 19.2            | 1919.....    | 22.3               | 15.3            | 20.9               | 11.6            | 21.5               | 12.3            |
| 1886.....    | 25.7               | 20.0            | 22.8               | 15.8            | 27.5               | 20.2            | 1920.....    | 22.1               | 16.2            | 22.5               | 14.0            | 22.5               | 14.7            |
| 1887.....    | 26.1               | 20.8            | 23.8               | 16.2            | 28.7               | 21.3            | 1921.....    | 20.9               | 16.6            | 20.3               | 12.9            | 20.6               | 14.1            |
| 1888.....    | 29.1               | 22.9            | 26.2               | 15.3            | 31.8               | 22.0            | 1922.....    | 24.8               | 20.1            | 23.0               | 13.9            | 24.5               | 16.2            |
| 1889.....    | 29.3               | 22.4            | 25.4               | 14.7            | 31.9               | 21.8            | 1923.....    | 24.5               | 20.1            | 22.5               | 13.8            | 24.9               | 16.7            |
| 1890.....    | 28.8               | 22.1            | 26.6               | 15.8            | 31.0               | 21.4            | 1924.....    | 22.3               | 18.3            | 22.3               | 13.2            | 22.9               | 15.1            |
| 1891.....    | 29.0               | 21.7            | 26.0               | 14.9            | 31.4               | 21.0            | 1925.....    | 22.1               | 18.2            | 23.1               | 13.0            | 23.3               | 15.1            |
| 1892.....    | 29.4               | 22.1            | 26.5               | 16.1            | 29.7               | 17.8            | 1926.....    | 21.6               | 18.4            | 23.9               | 13.2            | 24.7               | 15.5            |
| 1893.....    | 29.8               | 22.3            | 26.7               | 14.6            | 30.3               | 18.4            | 1927.....    | 23.9               | 19.7            | 23.1               | 13.2            | 24.1               | 15.4            |
| 1894.....    | 30.0               | 22.3            | 27.0               | 13.7            | 30.9               | 17.8            | 1928.....    | 25.6               | 20.6            | 23.3               | 13.5            | 24.2               | 15.5            |
| 1895.....    | 30.1               | 22.6            | 26.7               | 13.7            | 30.5               | 17.8            | 1929.....    | 25.9               | 20.6            | 23.4               | 14.1            | 24.4               | 15.8            |
| 1896.....    | 30.2               | 22.4            | 26.7               | 14.5            | 30.0               | 19.2            | 1930.....    | 25.5               | 20.0            | 23.3               | 14.4            | 24.3               | 15.9            |
| 1897.....    | 30.7               | 21.1            | 26.7               | 14.3            | 30.0               | 18.7            | 1931.....    | 26.9               | 19.5            | 24.8               | 15.2            | 26.0               | 16.4            |
| 1898.....    | 29.5               | 20.8            | 26.1               | 13.3            | 29.7               | 17.5            | 1932.....    | 29.2               | 21.9            | 27.4               | 17.9            | 29.3               | 19.7            |
| 1899.....    | 26.6               | 19.8            | 26.3               | 13.2            | 28.8               | 17.2            | 1933.....    | 25.8               | 16.6            | 28.1               | 17.4            | 30.1               | 19.0            |
| 1900.....    | 25.6               | 18.2            | 25.0               | 13.2            | 27.7               | 16.7            | 1934.....    | 26.2               | 14.2            | 28.6               | 16.8            | 29.2               | 16.9            |
| 1901.....    | 24.7               | 18.3            | 24.8               | 12.4            | 27.5               | 16.4            |              |                    |                 |                    |                 |                    |                 |



## 9.—Imports for Home Consumption of Certain Raw Materials Used in Canadian Manufactures, fiscal years 1911-34.

NOTE.—For the years 1902 to 1910, see Canada Year Book, 1926, p. 463.

| Fiscal Year. | Sugar, Raw. | Vegetable Oil for Soap Industry. | Crude Cotton-seed Oil. | Raw Rubber (including Balata). | Tobacco, Raw. | Hides and Skins.     | Cotton, Raw (including Linters). | Hemp, Dressed or Undressed. | Silk, Raw, etc. |
|--------------|-------------|----------------------------------|------------------------|--------------------------------|---------------|----------------------|----------------------------------|-----------------------------|-----------------|
|              | ton.        | gal.                             | cwt.                   | cwt.                           | lb.           | \$                   | cwt.                             | cwt.                        | lb.             |
| 1911....     | 271,532     | 297,338                          | —                      | 28,035                         | 17,204,271    | 8,105,330            | 812,622                          | 81,017                      | 121,748         |
| 1912....     | 281,402     | 407,825                          | 80,916                 | 44,313                         | 17,203,513    | 8,903,727            | 727,939                          | 82,661                      | 112,581         |
| 1913....     | 310,101     | 393,239                          | 243,872                | 56,755                         | 22,153,588    | 13,486,459           | 774,578                          | 64,990                      | 75,776          |
| 1914....     | 347,168     | 393,862                          | 265,789                | 44,504                         | 17,598,449    | 8,831,010            | 769,930                          | 55,572                      | 101,669         |
| 1915....     | 335,820     | 411,797                          | 293,849                | 65,045                         | 18,595,957    | 12,842,558           | 730,325                          | 55,370                      | 94,458          |
| 1916....     | 298,433     | 615,923                          | 430,013                | 99,132                         | 20,834,672    | 12,441,731           | 969,679                          | 50,914                      | 80,745          |
| 1917....     | 365,772     | 1,267,174                        | 315,621                | 107,580                        | 17,702,637    | 12,873,790           | 877,634                          | 15,846                      | 138,765         |
| 1918....     | 382,807     | 2,081,672                        | 408,850                | 130,956                        | 17,824,947    | 8,756,966            | 880,374                          | 45,177                      | 158,648         |
| 1919....     | 359,470     | 2,390,107                        | 459,685                | 192,272                        | 25,103,080    | 5,427,544            | 1,117,235                        | 72,887                      | 213,441         |
| 1920....     | 540,787     | 861,462                          | 578,986                | 244,335                        | 24,345,295    | 22,654,661           | 964,715                          | 46,553                      | 298,985         |
| 1921....     | 347,504     | 1,103,672                        | 417,301                | 228,062                        | 20,007,411    | 10,652,787           | 986,315                          | 47,090                      | 272,508         |
| 1922....     | 432,212     | 1,342,390                        | 488,683                | 189,525                        | 20,870,509    | 5,898,087            | 953,860                          | 77,833                      | 371,570         |
| 1923....     | 571,728     | 1,928,386                        | 255,381                | 253,957                        | 14,548,694    | 7,947,410            | 1,252,615                        | 203,844                     | 368,026         |
| 1924....     | 419,710     | 1,886,162                        | 216,082                | 288,857                        | 15,941,339    | 461,581 <sup>1</sup> | 955,966                          | 340,402                     | 335,495         |
| 1925....     | 419,371     | 1,692,744                        | 213,201                | 344,509                        | 13,712,885    | 502,586 <sup>1</sup> | 1,008,793                        | 249,032                     | 361,403         |
| 1926....     | 579,272     | 2,591,232                        | 335,755                | 469,893                        | 14,943,864    | 534,089 <sup>1</sup> | 1,355,738                        | 281,639                     | 529,446         |
| 1927....     | 564,779     | 3,177,800                        | 297,706                | 502,312                        | 17,446,774    | 579,085 <sup>1</sup> | 1,497,438                        | 123,426                     | 679,923         |
| 1928....     | 447,389     | 3,377,856                        | 623,148                | 582,039                        | 18,475,772    | 678,670 <sup>1</sup> | 1,462,246                        | 99,503                      | 938,459         |
| 1929....     | 409,585     | 4,182,659                        | 302,197                | 777,169                        | 18,726,618    | 507,773 <sup>1</sup> | 1,511,270                        | 27,390                      | 1,282,815       |
| 1930....     | 402,871     | 3,749,571                        | 400,653                | 733,400                        | 17,113,472    | 486,442 <sup>1</sup> | 1,260,699                        | 42,620                      | 1,668,972       |
| 1931....     | 415,090     | 3,982,440                        | 174,711                | 595,591                        | 16,580,394    | 345,439 <sup>1</sup> | 1,067,222                        | 28,423                      | 1,954,395       |
| 1932....     | 405,607     | 3,922,152                        | 386,275                | 552,694                        | 13,075,335    | 281,316 <sup>1</sup> | 1,009,023                        | 18,348                      | 2,539,133       |
| 1933....     | 311,365     | 3,610,175                        | 407,055                | 410,939                        | 10,199,212    | 268,355 <sup>1</sup> | 1,009,073                        | 15,810                      | 2,572,949       |
| 1934....     | 229,330     | 4,577,451                        | 165,257                | 511,681                        | 8,129,142     | 313,482 <sup>1</sup> | 1,394,536                        | 23,498                      | 2,505,200       |

| Fiscal Year. | Wool, Raw. <sup>2</sup> | Noils and Worsted Tops. | Artificial Silk Rovings, Yarns, etc. | Manila, Sisal, Istle, Tampico. | Rags, Waste Paper and other Waste. | Iron Ore. | Alumina, Bauxite, Cryolite. | Tin in Blocks, Ingots, etc. | Crude Petroleum for Refining. <sup>3</sup> |
|--------------|-------------------------|-------------------------|--------------------------------------|--------------------------------|------------------------------------|-----------|-----------------------------|-----------------------------|--------------------------------------------|
|              | cwt.                    | \$                      | lb.                                  | cwt.                           | cwt.                               | ton.      | cwt.                        | cwt.                        | gal.                                       |
| 1911....     | 64,224                  | 778,320                 | —                                    | 274,493                        | 536,604                            | —         | 186,152                     | 35,706                      | 54,310,597                                 |
| 1912....     | 71,954                  | 689,304                 | —                                    | 291,976                        | 564,296                            | —         | 218,998                     | 41,740                      | 72,231,006                                 |
| 1913....     | 92,092                  | 980,432                 | 115,710                              | 346,109                        | 750,003                            | 2,116,933 | 276,170                     | 51,319                      | 143,338,070                                |
| 1914....     | 72,521                  | 1,072,066               | 129,982                              | 190,867                        | 716,882                            | 1,972,207 | 312,259                     | 46,076                      | 177,879,835                                |
| 1915....     | 131,940                 | 1,312,885               | 128,148                              | 284,620                        | 540,922                            | 1,055,724 | 261,553                     | 29,402                      | 196,203,287                                |
| 1916....     | 211,407                 | 2,587,949               | 183,278                              | 384,152                        | 510,472                            | 1,595,995 | 385,959                     | 32,756                      | 186,753,081                                |
| 1917....     | 145,812                 | 2,988,177               | 276,873                              | 327,691                        | 780,062                            | 2,318,547 | 816,509                     | 35,726                      | 135,533,089                                |
| 1918....     | 115,380                 | 4,418,854               | 160,090                              | 496,904                        | 505,643                            | 2,203,506 | 1,664,799                   | 38,683                      | 191,376,057                                |
| 1919....     | 158,767                 | 5,314,793               | 161,206                              | 315,067                        | 570,211                            | 2,227,130 | 1,916,929                   | 28,044                      | 260,819,944                                |
| 1920....     | 117,717                 | 5,847,787               | 360,297                              | 456,801                        | 826,593                            | 1,632,011 | 451,349                     | 44,010                      | 298,540,725                                |
| 1921....     | 92,772                  | 55,331 <sup>1</sup>     | 512,109                              | 457,497                        | 1,142,850                          | 1,950,291 | 1,198,605                   | 42,727                      | 311,719,057                                |
| 1922....     | 125,867                 | 72,254 <sup>1</sup>     | 570,450                              | 189,071                        | 686,483                            | 656,902   | 1,66,695                    | 27,242                      | 391,292,960                                |
| 1923....     | 182,556                 | 91,103 <sup>1</sup>     | 933,791                              | 219,591                        | 870,542                            | 1,044,999 | 792,210                     | 39,258                      | 397,603,716                                |
| 1924....     | 193,217                 | 86,062 <sup>1</sup>     | 1,239,986                            | 272,462                        | 1,123,282                          | 1,807,223 | 1,266,799                   | 39,837                      | 418,791,944                                |
| 1925....     | 143,629                 | 58,231 <sup>1</sup>     | 1,684,811                            | 258,804                        | 1,232,567                          | 911,586   | 1,358,148                   | 43,535                      | 440,671,846                                |
| 1926....     | 134,344                 | 61,421 <sup>1</sup>     | 1,689,730                            | 442,561                        | 1,307,473                          | 1,053,593 | 1,336,538                   | 44,409                      | 470,616,511                                |
| 1927....     | 164,234                 | 78,875 <sup>1</sup>     | 1,516,448                            | 523,074                        | 1,364,897                          | 1,445,504 | 1,647,244                   | 50,858                      | 596,466,714                                |
| 1928....     | 138,957                 | 81,331 <sup>1</sup>     | 1,563,020                            | 529,541                        | 1,371,469                          | 1,491,234 | 2,663,166                   | 48,742                      | 709,959,837                                |
| 1929....     | 190,219                 | 86,470 <sup>1</sup>     | 2,240,704                            | 770,936                        | 1,314,494                          | 2,227,130 | 3,444,911                   | 58,928                      | 865,335,849                                |
| 1930....     | 103,343                 | 62,939 <sup>1</sup>     | 2,132,362                            | 464,378                        | 1,606,931                          | 2,456,919 | 2,738,777                   | 56,318                      | 1,110,169,704                              |
| 1931....     | 107,449                 | 66,493 <sup>1</sup>     | 2,569,574                            | 487,035                        | 1,254,557                          | 1,428,970 | 2,221,550                   | 49,727                      | 994,384,911                                |
| 1932....     | 96,245                  | 73,694 <sup>1</sup>     | 1,501,739                            | 469,827                        | 1,363,974                          | 802,163   | 1,704,029                   | 38,095                      | 1,016,335,361                              |
| 1933....     | 83,557                  | 80,071 <sup>1</sup>     | 958,047                              | 753,350                        | 792,085                            | 66,514    | 745,455                     | 28,763                      | 845,587,999                                |
| 1934....     | 172,153                 | 119,317 <sup>1</sup>    | 2,082,202                            | 699,657                        | 880,381                            | 205,811   | 1,241,609                   | 31,322                      | 1,026,711,083                              |

<sup>1</sup>Cwt.<sup>2</sup> Includes hair of the camel, alpaca, goat, etc.<sup>3</sup> Prior to 1917 includes all crude petroleum.

19.—Exports to the United Kingdom, to the United States and to All Countries, of Classes of Merchandise the Produce of Canada, by Values and Percentages, fiscal years 1931-34.  
VALUES.

| Class.                                                      | 1931.           |                |                |    | 1932.           |                |                |    | 1933.           |                |                |    | 1934.           |                |                |  |
|-------------------------------------------------------------|-----------------|----------------|----------------|----|-----------------|----------------|----------------|----|-----------------|----------------|----------------|----|-----------------|----------------|----------------|--|
|                                                             | United Kingdom. | United States. | All Countries. | \$ | United Kingdom. | United States. | All Countries. | \$ | United Kingdom. | United States. | All Countries. | \$ | United Kingdom. | United States. | All Countries. |  |
|                                                             | \$              | \$             | \$             |    | \$              | \$             | \$             |    | \$              | \$             | \$             |    | \$              | \$             |                |  |
| Vegetable products (except chemicals, fibres and wood)      | 141,108,053     | 27,644,374     | 292,280,037    |    | 98,725,113      | 11,035,258     | 204,398,365    |    | 114,201,252     | 3,905,813      | 203,370,418    |    | 112,497,846     | 22,312,739     | 205,804,526    |  |
| Animals and their products (except chemicals and fibres)    | 31,173,615      | 34,068,408     | 83,714,772     |    | 32,028,165      | 22,342,515     | 68,798,683     |    | 29,952,648      | 13,948,692     | 54,333,047     |    | 44,707,074      | 18,435,329     | 75,151,480     |  |
| Fibres, textiles and textile products                       | 1,048,925       | 2,068,531      | 6,504,182      |    | 1,386,235       | 1,743,794      | 5,512,130      |    | 1,293,979       | 867,628        | 4,731,094      |    | 1,949,624       | 2,530,968      | 7,828,684      |  |
| Wood, wood products and paper                               | 17,350,424      | 188,949,408    | 230,604,474    |    | 13,734,973      | 140,473,352    | 175,740,269    |    | 11,301,796      | 93,914,355     | 120,886,796    |    | 20,403,201      | 102,156,637    | 143,142,398    |  |
| Iron and its products                                       | 4,073,233       | 6,118,120      | 38,937,661     |    | 3,758,363       | 3,097,883      | 15,462,877     |    | 5,574,895       | 1,958,419      | 17,277,099     |    | 5,237,085       | 4,348,230      | 26,641,482     |  |
| Non-ferrous metals and their products                       | 17,153,570      | 58,835,683     | 95,652,063     |    | 17,266,439      | 36,176,490     | 69,072,888     |    | 14,598,651      | 13,807,581     | 42,642,318     |    | 35,834,863      | 22,399,555     | 81,764,208     |  |
| Non-metallic minerals and their products (except chemicals) | 1,546,819       | 13,255,258     | 21,107,780     |    | 894,408         | 8,232,323      | 13,456,701     |    | 1,290,055       | 4,937,126      | 9,215,837      |    | 1,897,685       | 9,217,668      | 14,808,912     |  |
| Chemicals and allied products                               | 2,714,386       | 6,361,691      | 12,825,852     |    | 3,130,795       | 4,123,489      | 10,535,038     |    | 2,893,574       | 4,668,260      | 11,099,814     |    | 3,130,678       | 6,429,888      | 13,843,859     |  |
| Miscellaneous commodities.                                  | 3,077,474       | 12,359,090     | 18,115,846     |    | 3,079,234       | 7,960,570      | 13,367,251     |    | 3,254,169       | 5,152,526      | 10,243,532     |    | 1,943,355       | 6,612,125      | 10,357,626     |  |
| Totals                                                      | 219,246,499     | 349,660,563    | 799,742,667    |    | 174,043,725     | 235,186,674    | 576,344,392    |    | 184,361,019     | 143,160,400    | 473,799,955    |    | 227,601,411     | 194,443,139    | 579,343,145    |  |
| PERCENTAGES OF EACH CLASS.                                  |                 |                |                |    |                 |                |                |    |                 |                |                |    |                 |                |                |  |
| Vegetable products (except chemicals, fibres and wood)      | 64.4            | 7.9            | 36.5           |    | 56.7            | 4.7            | 35.5           |    | 62.0            | 2.7            | 42.9           |    | 49.4            | 11.5           | 35.5           |  |
| Animals and their products (except chemicals and fibres)    | 14.2            | 9.8            | 10.5           |    | 18.4            | 9.5            | 11.9           |    | 16.2            | 9.8            | 11.5           |    | 19.6            | 9.5            | 13.0           |  |
| Fibres, textiles and textile products                       | 0.5             | 0.6            | 0.8            |    | 0.8             | 0.7            | 1.0            |    | 0.7             | 0.6            | 1.0            |    | 0.9             | 1.3            | 1.3            |  |
| Wood, wood products and paper                               | 7.9             | 54.1           | 28.8           |    | 7.9             | 59.7           | 30.5           |    | 6.1             | 65.6           | 25.5           |    | 9.0             | 52.6           | 24.7           |  |
| Iron and its products                                       | 1.9             | 1.7            | 4.9            |    | 2.2             | 1.3            | 2.7            |    | 3.0             | 1.4            | 3.7            |    | 2.3             | 2.2            | 4.6            |  |
| Non-ferrous metals and their products                       | 7.8             | 16.8           | 12.0           |    | 9.9             | 15.4           | 12.0           |    | 7.9             | 9.6            | 9.0            |    | 15.7            | 11.5           | 14.1           |  |
| Non-metallic minerals and their products (except chemicals) | 0.7             | 3.8            | 2.6            |    | 0.5             | 3.5            | 2.3            |    | 0.7             | 3.4            | 1.9            |    | 0.8             | 4.7            | 2.6            |  |
| Chemicals and allied products                               | 1.2             | 1.8            | 1.6            |    | 1.8             | 1.8            | 1.8            |    | 1.6             | 3.3            | 2.3            |    | 1.4             | 3.3            | 2.4            |  |
| Miscellaneous commodities.                                  | 1.4             | 3.5            | 2.3            |    | 1.8             | 3.4            | 2.3            |    | 1.8             | 3.6            | 2.2            |    | 0.9             | 3.4            | 1.8            |  |
| Totals                                                      | 100.0           | 100.0          | 100.0          |    | 100.0           | 100.0          | 100.0          |    | 100.0           | 100.0          | 100.0          |    | 100.0           | 100.0          | 100.0          |  |

## 11.—Imports from the United Kingdom, from the United States and from All Countries, of Classes of Merchandise Entered for Home Consumption, by Values and Percentages, fiscal years 1931-34.

## VALUES.

| Class.                                                                       | 1931.              |                    |                    |  | 1932.              |                    |                    |  | 1933.             |                    |                    |  | 1934.              |                    |                    |  |
|------------------------------------------------------------------------------|--------------------|--------------------|--------------------|--|--------------------|--------------------|--------------------|--|-------------------|--------------------|--------------------|--|--------------------|--------------------|--------------------|--|
|                                                                              | United Kingdom.    | United States.     | All Countries.     |  | United Kingdom.    | United States.     | All Countries.     |  | United Kingdom.   | United States.     | All Countries.     |  | United Kingdom.    | United States.     | All Countries.     |  |
| Agricultural and vegetable products (except chemicals, fibres and wood)..... | \$                 | \$                 | \$                 |  | \$                 | \$                 | \$                 |  | \$                | \$                 | \$                 |  | \$                 | \$                 | \$                 |  |
| Animal products (except chemicals and fibres).....                           | 41,761,537         | 67,554,312         | 177,597,404        |  | 30,219,897         | 44,564,271         | 128,599,321        |  | 17,387,932        | 30,212,284         | 88,288,966         |  | 20,341,396         | 30,987,789         | 90,828,810         |  |
| Fibres, textiles and textile products.....                                   | 3,783,222          | 26,153,450         | 45,995,756         |  | 2,614,531          | 14,184,754         | 24,563,470         |  | 2,406,007         | 8,574,474          | 15,438,634         |  | 3,102,972          | 10,459,740         | 19,841,877         |  |
| Wood, wood products and paper.....                                           | 49,207,120         | 48,244,419         | 130,717,022        |  | 30,549,937         | 30,944,027         | 83,879,362         |  | 25,580,195        | 22,479,022         | 61,214,824         |  | 35,123,319         | 28,553,731         | 79,372,470         |  |
| Iron and its products.....                                                   | 4,542,054          | 38,164,087         | 46,073,343         |  | 3,838,124          | 25,598,404         | 32,080,107         |  | 3,368,290         | 15,104,602         | 20,506,134         |  | 3,243,905          | 14,547,027         | 19,357,987         |  |
| Non-ferrous metals and their products.....                                   | 18,039,899         | 166,783,795        | 192,614,200        |  | 13,381,747         | 80,538,860         | 98,297,622         |  | 11,996,542        | 43,831,110         | 58,917,834         |  | 16,711,935         | 49,098,632         | 69,126,641         |  |
| Non-metallic minerals and their products (except chemicals).....             | 6,340,567          | 50,043,844         | 61,899,298         |  | 4,275,877          | 27,493,878         | 34,802,350         |  | 3,314,548         | 12,940,862         | 18,095,404         |  | 2,967,035          | 14,142,239         | 20,171,000         |  |
| Chemicals and allied products.....                                           | 12,902,472         | 118,984,418        | 153,578,658        |  | 10,286,241         | 77,871,155         | 102,147,347        |  | 12,582,165        | 62,921,986         | 87,658,005         |  | 13,229,645         | 58,923,311         | 83,396,761         |  |
| Miscellaneous commodities.....                                               | 4,601,666          | 23,201,992         | 35,680,772         |  | 4,096,696          | 20,359,822         | 30,731,345         |  | 4,583,344         | 15,465,420         | 25,455,432         |  | 5,662,584          | 14,492,071         | 25,583,675         |  |
|                                                                              | 8,318,855          | 45,266,691         | 62,486,182         |  | 7,118,729          | 30,130,664         | 43,462,980         |  | 5,217,092         | 20,915,295         | 30,808,511         |  | 4,717,973          | 16,982,841         | 26,119,404         |  |
| <b>Totals.....</b>                                                           | <b>149,497,392</b> | <b>584,407,018</b> | <b>906,612,695</b> |  | <b>106,371,779</b> | <b>351,686,775</b> | <b>578,503,904</b> |  | <b>86,466,055</b> | <b>232,548,055</b> | <b>406,383,744</b> |  | <b>105,100,764</b> | <b>238,187,681</b> | <b>433,798,625</b> |  |

## PERCENTAGES OF EACH CLASS.

| Class.                                                                       | 1931.        |              |              |  | 1932.        |              |              |  | 1933.        |              |              |  | 1934.        |              |              |  |
|------------------------------------------------------------------------------|--------------|--------------|--------------|--|--------------|--------------|--------------|--|--------------|--------------|--------------|--|--------------|--------------|--------------|--|
|                                                                              | p.c.         | p.c.         | p.c.         |  | p.c.         | p.c.         | p.c.         |  | p.c.         | p.c.         | p.c.         |  | p.c.         | p.c.         | p.c.         |  |
| Agricultural and vegetable products (except chemicals, fibres and wood)..... | 27.9         | 11.6         | 19.6         |  | 28.4         | 12.7         | 22.2         |  | 20.1         | 13.0         | 21.7         |  | 19.3         | 13.0         | 20.9         |  |
| Animal products (except chemicals and fibres).....                           | 2.5          | 4.5          | 5.1          |  | 2.5          | 4.0          | 4.3          |  | 2.8          | 3.7          | 3.8          |  | 3.0          | 4.4          | 4.6          |  |
| Fibres, textiles and textile products.....                                   | 32.9         | 8.2          | 14.4         |  | 28.7         | 8.8          | 14.5         |  | 29.6         | 9.7          | 15.1         |  | 33.4         | 12.0         | 18.3         |  |
| Wood, wood products and paper.....                                           | 3.0          | 6.5          | 5.1          |  | 3.6          | 7.3          | 5.5          |  | 3.9          | 6.5          | 5.0          |  | 3.1          | 6.1          | 4.5          |  |
| Iron and its products.....                                                   | 12.1         | 28.5         | 21.3         |  | 12.6         | 22.9         | 17.0         |  | 13.9         | 18.9         | 14.5         |  | 15.9         | 20.6         | 15.9         |  |
| Non-ferrous metals and their products.....                                   | 4.3          | 8.6          | 6.8          |  | 4.0          | 7.8          | 6.0          |  | 3.8          | 5.6          | 4.4          |  | 2.8          | 6.0          | 4.7          |  |
| Non-metallic minerals and their products (except chemicals).....             | 8.6          | 20.4         | 16.9         |  | 9.6          | 22.1         | 17.7         |  | 14.6         | 27.0         | 21.6         |  | 12.6         | 24.7         | 19.2         |  |
| Chemicals and allied products.....                                           | 3.1          | 4.0          | 3.9          |  | 3.9          | 5.8          | 5.3          |  | 5.3          | 6.6          | 6.3          |  | 5.4          | 6.1          | 5.9          |  |
| Miscellaneous commodities.....                                               | 5.6          | 7.7          | 6.9          |  | 6.7          | 8.6          | 7.5          |  | 6.0          | 9.0          | 7.6          |  | 4.5          | 7.1          | 6.0          |  |
| <b>Totals.....</b>                                                           | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> |  | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> |  | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> |  | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> |  |

## 12.—Principal Exports of Canadian Produce from Canada to United

| No.                                            | Item.                                                   | United Kingdom. |             |             |             |
|------------------------------------------------|---------------------------------------------------------|-----------------|-------------|-------------|-------------|
|                                                |                                                         | 1931.           | 1932.       | 1933.       | 1934.       |
| <b>I. Agricultural and Vegetable Products.</b> |                                                         |                 |             |             |             |
| <b>A. MAINLY FOOD.</b>                         |                                                         |                 |             |             |             |
| Fruits—                                        |                                                         |                 |             |             |             |
| Fresh—                                         |                                                         |                 |             |             |             |
| 1                                              | Apples..... brl.                                        | 1,167,736       | 1,422,603   | 1,677,220   | 3,057,897   |
|                                                | \$                                                      | 5,091,415       | 5,577,339   | 6,878,165   | 11,368,385  |
| 2                                              | Blueberries..... lb.                                    | 750             | —           | —           | 895         |
|                                                | \$                                                      | 90              | —           | —           | 44          |
| 3                                              | Dried apples..... lb.                                   | 160,605         | 86,975      | 371,825     | 988,125     |
|                                                | \$                                                      | 14,276          | 5,874       | 26,875      | 70,926      |
| 4                                              | Canned fruits..... lb.                                  | 2,783,008       | 6,774,664   | 9,403,284   | 16,886,164  |
|                                                | \$                                                      | 194,129         | 392,081     | 528,852     | 898,049     |
| 5                                              | Juices and syrups, n.o.p..... gal.                      | 246,407         | 230,210     | 399,351     | 269,485     |
|                                                | \$                                                      | 157,362         | 175,758     | 295,812     | 155,734     |
|                                                | Totals, Fruits <sup>1</sup> ..... \$                    | 5,523,656       | 6,194,367   | 7,658,246   | 12,706,637  |
| Vegetables—                                    |                                                         |                 |             |             |             |
| Fresh—                                         |                                                         |                 |             |             |             |
| 6                                              | Potatoes..... bush.                                     | —               | —           | —           | —           |
|                                                | \$                                                      | —               | —           | —           | —           |
| 7                                              | Turnips..... bush.                                      | —               | —           | —           | —           |
|                                                | \$                                                      | —               | —           | —           | —           |
| 8                                              | Canned..... lb.                                         | 8,301,431       | 9,077,018   | 4,557,634   | 14,212,770  |
|                                                | \$                                                      | 500,010         | 454,125     | 178,978     | 674,183     |
| 9                                              | Pickled..... \$                                         | 1,346,262       | 1,512,530   | 1,043,555   | 1,357,265   |
|                                                | Totals, Vegetables <sup>1</sup> ..... \$                | 1,846,272       | 1,966,655   | 1,222,565   | 2,031,538   |
| Grains and Farinaceous Products—               |                                                         |                 |             |             |             |
| Grains—                                        |                                                         |                 |             |             |             |
| 10                                             | Barley..... bush.                                       | 2,235,137       | 8,168,571   | 5,758,394   | 1,398,043   |
|                                                | \$                                                      | 686,120         | 3,025,852   | 2,426,115   | 579,194     |
| 11                                             | Buckwheat..... bush.                                    | 36,544          | 170,507     | 238,102     | 71,353      |
|                                                | \$                                                      | 20,302          | 76,093      | 88,760      | 33,952      |
| 12                                             | Oats..... bush.                                         | 850,599         | 6,082,621   | 8,522,742   | 4,009,382   |
|                                                | \$                                                      | 363,816         | 1,971,456   | 2,605,419   | 1,138,017   |
| 13                                             | Peas, whole..... bush.                                  | 9,138           | 8,685       | 14,127      | 7,429       |
|                                                | \$                                                      | 39,971          | 29,748      | 38,398      | 22,574      |
| 14                                             | Rye..... bush.                                          | 1,082,433       | 2,116,572   | 1,287,472   | 241,820     |
|                                                | \$                                                      | 398,546         | 916,138     | 483,983     | 107,631     |
| 15                                             | Wheat..... bush.                                        | 131,679,398     | 110,552,532 | 150,791,339 | 112,787,849 |
|                                                | \$                                                      | 106,759,872     | 65,302,614  | 79,636,390  | 75,699,056  |
|                                                | Totals, Grains <sup>1</sup> ..... \$                    | 108,209,063     | 71,330,905  | 85,326,533  | 77,600,084  |
| Milled Products—                               |                                                         |                 |             |             |             |
| 16                                             | Bran, shorts and middlings..... cwt.                    | 13,602          | 204,889     | 1,635,934   | 682,554     |
|                                                | \$                                                      | 18,928          | 171,709     | 1,226,559   | 517,894     |
| 17                                             | Oatmeal..... cwt.                                       | 427,580         | 650,395     | 505,294     | 403,733     |
|                                                | \$                                                      | 2,216,712       | 2,201,827   | 1,727,523   | 1,430,565   |
| 18                                             | Wheat flour..... brl.                                   | 2,727,865       | 2,065,077   | 2,400,747   | 2,551,249   |
|                                                | \$                                                      | 12,540,874      | 7,317,910   | 7,823,094   | 8,781,577   |
|                                                | Totals, Milled Products <sup>1</sup> ..... \$           | 14,786,687      | 9,713,893   | 10,784,127  | 10,731,849  |
| 19                                             | Cereal foods, prepared..... \$                          | 2,441,154       | 2,323,635   | 2,260,207   | 2,795,236   |
| 20                                             | Malt..... \$                                            | 36              | —           | 2,968       | —           |
|                                                | Totals, Grains and Farinaceous Products <sup>1</sup> \$ | 125,444,100     | 83,421,504  | 98,473,465  | 91,275,357  |
| Sugar and Its Products—                        |                                                         |                 |             |             |             |
| 21                                             | Candy..... lb.                                          | 5,583           | 3,493       | 26,154      | 58,597      |
|                                                | \$                                                      | 2,118           | 1,260       | 4,282       | 9,591       |
| 22                                             | Maple sugar and syrup..... \$                           | 16,024          | —           | 16,837      | 8,851       |
| 23                                             | Sugar, n.o.p..... cwt.                                  | —               | —           | —           | —           |
|                                                | \$                                                      | —               | —           | —           | —           |
|                                                | Totals, Sugar and Its Products <sup>1</sup> ..... \$    | 94,380          | 104,987     | 61,005      | 83,274      |
| 24                                             | Hops..... lb.                                           | 196,393         | 42,191      | 54,032      | 572,271     |
|                                                | \$                                                      | 45,802          | 4,876       | 10,742      | 198,242     |
|                                                | <b>Totals, Agricultural and Vegetable Products</b>      |                 |             |             |             |
|                                                | —A. MAINLY FOOD <sup>1</sup> ..... \$                   | 132,984,168     | 91,705,797  | 107,747,405 | 106,393,193 |

<sup>1</sup> Totals include other items not specified.



## Kingdom, United States and All Countries, fiscal years 1931-34.

| United States. |            |           |           | All Countries. |             |             |             | No. |
|----------------|------------|-----------|-----------|----------------|-------------|-------------|-------------|-----|
| 1931.          | 1932.      | 1933.     | 1934.     | 1931.          | 1932.       | 1933.       | 1934.       |     |
| 52,039         | 17,292     | 17,074    | 3,213     | 1,664,739      | 1,658,882   | 1,780,026   | 3,476,114   | 1   |
| 253,567        | 68,030     | 89,032    | 8,427     | 7,095,719      | 6,537,584   | 7,352,912   | 12,823,785  | 2   |
| 6,221,594      | 1,909,653  | 1,949,887 | 3,453,277 | 6,222,574      | 1,910,279   | 1,950,639   | 3,455,188   | 3   |
| 508,239        | 157,597    | 108,938   | 186,137   | 508,349        | 157,665     | 109,012     | 186,285     |     |
| —              | —          | 80        | 44,500    | 2,445,555      | 775,616     | 489,305     | 3,252,333   |     |
| —              | —          | 7         | 2,250     | 184,599        | 50,435      | 34,313      | 223,032     |     |
| 356,747        | 101,861    | 4,655     | 200,895   | 3,334,617      | 7,195,132   | 9,742,653   | 17,520,268  |     |
| 27,335         | 9,422      | 375       | 11,102    | 239,902        | 423,452     | 553,971     | 941,964     |     |
| 116            | 3,780      | 10        | 102       | 273,731        | 260,959     | 423,168     | 300,313     |     |
| 114            | 2,603      | 39        | 423       | 180,973        | 197,142     | 315,529     | 282,030     |     |
| 892,847        | 319,623    | 271,523   | 227,446   | 8,403,141      | 7,507,040   | 8,676,256   | 14,607,881  |     |
| 5,010,348      | 2,949,377  | 774,821   | 1,901,128 | 7,102,119      | 4,723,618   | 1,861,843   | 2,707,693   | 6   |
| 3,971,048      | 1,472,510  | 219,259   | 1,337,304 | 5,658,367      | 2,466,204   | 770,272     | 1,876,331   | 7   |
| 1,911,025      | 1,954,615  | 1,937,288 | 1,020,249 | 1,928,332      | 1,967,162   | 1,950,482   | 1,949,022   | 8   |
| 539,009        | 367,481    | 358,543   | 630,679   | 545,682        | 371,411     | 362,214     | 638,733     | 9   |
| 236,562        | 11,446,874 | 26,530    | 98,629    | 11,023,835     | 22,477,523  | 6,755,112   | 17,099,688  |     |
| 12,393         | 304,304    | 1,813     | 3,381     | 674,986        | 849,946     | 281,207     | 810,295     |     |
| 570            | 2,923      | 961       | 813       | 1,377,228      | 1,538,447   | 1,080,851   | 1,433,524   |     |
| 4,896,832      | 2,406,728  | 657,720   | 2,042,592 | 8,695,725      | 5,554,068   | 2,686,598   | 4,911,728   |     |
| 632,119        | 55,723     | 133       | 50        | 3,468,729      | 24,337,678  | 9,863,054   | 1,569,569   | 10  |
| 230,010        | 16,989     | 83        | 15        | 1,169,403      | 10,002,911  | 4,293,341   | 658,747     | 11  |
| 448,399        | 23,692     | 24,183    | 129,633   | 661,189        | 741,041     | 788,137     | 535,514     | 12  |
| 306,564        | 10,533     | 9,390     | 61,397    | 425,183        | 332,077     | 306,538     | 265,474     | 13  |
| 817,414        | 46,729     | 18,897    | 120,905   | 3,258,501      | 13,841,300  | 13,824,409  | 5,707,502   | 14  |
| 164,038        | 13,456     | 7,088     | 44,043    | 1,146,266      | 4,662,335   | 4,300,592   | 1,747,650   | 15  |
| 6,538          | 46,300     | 49,607    | 27,520    | 19,262         | 57,775      | 67,832      | 40,543      | 16  |
| 29,020         | 77,613     | 91,407    | 41,521    | 77,386         | 111,809     | 137,057     | 74,706      | 17  |
| 63             | 348        | 100       | 2,545,771 | 1,327,453      | 4,359,813   | 8,211,332   | 2,788,213   | 18  |
| 111            | 169        | 50        | 1,405,538 | 534,549        | 2,025,199   | 4,030,240   | 1,513,598   | 19  |
| 10,337,690     | 4,815,985  | 51,910    | 431,499   | 217,243,037    | 191,315,933 | 239,373,255 | 175,534,255 | 20  |
| 7,727,678      | 2,670,650  | 26,578    | 261,505   | 177,419,769    | 115,739,363 | 130,546,365 | 118,969,445 |     |
| 8,523,162      | 2,809,586  | 134,680   | 1,829,154 | 180,874,218    | 132,930,429 | 143,695,931 | 123,284,392 |     |
| 2,924,538      | 1,725,442  | 426,266   | 1,829,932 | 3,008,574      | 2,018,332   | 2,142,785   | 2,598,860   | 21  |
| 2,854,854      | 1,021,491  | 232,439   | 1,416,635 | 2,962,696      | 1,273,648   | 1,531,524   | 2,015,610   | 22  |
| 5              | 1,150      | 402       | —         | 488,334        | 798,840     | 568,731     | 463,245     | 23  |
| 21             | 1,512      | 526       | —         | 2,523,868      | 2,633,632   | 2,000,807   | 1,705,451   |     |
| 634            | 1,204      | 1,662     | 3,114     | 7,218,188      | 5,413,740   | 5,268,371   | 5,619,937   |     |
| 2,549          | 3,756      | 3,757     | 13,527    | 32,876,234     | 18,987,543  | 16,987,110  | 19,729,782  |     |
| 2,867,320      | 1,029,197  | 237,908   | 1,430,924 | 38,407,020     | 22,881,956  | 20,602,606  | 23,574,176  |     |
| 13,477         | 25,543     | 39,832    | 40,906    | 2,492,467      | 2,405,404   | 2,399,732   | 2,981,706   |     |
| 198,632        | 998,663    | 863,696   | 2,731,557 | 284,866        | 1,211,448   | 1,061,880   | 3,017,394   |     |
| 12,260,528     | 5,015,620  | 1,372,145 | 6,223,536 | 222,916,888    | 159,726,251 | 168,050,881 | 153,318,519 |     |
| 2,300          | 1,259      | 1,306     | 1,909     | 1,411,004      | 899,877     | 583,702     | 497,474     |     |
| 570            | 405        | 398       | 247       | 393,477        | 233,867     | 133,640     | 110,021     |     |
| 1,466,921      | 562,467    | 551,392   | 386,002   | 1,486,005      | 576,346     | 569,729     | 397,053     |     |
| 3,069          | 13         | 18        | 6         | 187,754        | 140,825     | 84,252      | 190,721     |     |
| 15,092         | 112        | 89        | 40        | 904,209        | 687,150     | 393,846     | 896,950     |     |
| 1,711,914      | 677,462    | 601,723   | 444,823   | 3,188,138      | 1,753,174   | 1,223,214   | 1,568,353   |     |
| —              | —          | —         | 26,038    | 216,065        | 54,819      | 69,388      | 743,404     |     |
| —              | —          | —         | 14,184    | 48,362         | 6,204       | 11,813      | 262,053     |     |
| 19,820,570     | 8,484,020  | 2,957,699 | 8,983,137 | 243,509,342    | 174,768,090 | 180,850,597 | 174,959,074 |     |

## 12.—Principal Exports of Canadian Produce from Canada to United

| No.                                                                    | Item.                                         | United Kingdom.    |                   |                    |                    |
|------------------------------------------------------------------------|-----------------------------------------------|--------------------|-------------------|--------------------|--------------------|
|                                                                        |                                               | 1931.              | 1932.             | 1933.              | 1934.              |
| <b>I. Agricultural and Vegetable Products—con.</b>                     |                                               |                    |                   |                    |                    |
| <b>B. OTHER THAN FOOD.</b>                                             |                                               |                    |                   |                    |                    |
| Beverages—                                                             |                                               |                    |                   |                    |                    |
| 1                                                                      | Brewed (ale, beer)..... gal.                  | 18                 | 103               | 139                | 7                  |
|                                                                        | \$                                            | 42                 | 183               | 210                | 7                  |
| 2                                                                      | Distilled, Whiskey..... pf. gal.              | 12,649             | 20,389            | 19,899             | 12,770             |
|                                                                        | \$                                            | 41,291             | 72,786            | 68,765             | 58,691             |
| 3                                                                      | “ Other..... pf. gal.                         | 2,504              | 10                | —                  | 1                  |
|                                                                        | \$                                            | 7,001              | 74                | —                  | 8                  |
| 4                                                                      | Fermented (wines)..... gal.                   | 135                | 205               | 142                | 148                |
|                                                                        | \$                                            | 206                | 277               | 208                | 225                |
|                                                                        | Totals, Beverages..... \$                     | 48,540             | 73,320            | 69,183             | 58,931             |
| 5                                                                      | Oil cake and meal..... cwt.                   | 2,812              | 45,448            | 78,551             | 65,061             |
|                                                                        | \$                                            | 5,410              | 60,182            | 101,862            | 92,765             |
| Rubber—                                                                |                                               |                    |                   |                    |                    |
| 6                                                                      | Belting..... lb.                              | 365,866            | 225,425           | 87,978             | 139,570            |
|                                                                        | \$                                            | 112,012            | 65,239            | 30,496             | 45,985             |
| 7                                                                      | Canvas shoes with rubber soles..... pair      | 1,812,256          | 756,828           | 334,030            | 1,185,352          |
|                                                                        | \$                                            | 1,255,600          | 486,329           | 184,754            | 592,841            |
| 8                                                                      | Boots and shoes, rubber, n.o.p..... pair      | 991,995            | 963,670           | 879,182            | 1,538,054          |
|                                                                        | \$                                            | 1,578,038          | 1,340,048         | 1,095,388          | 1,458,346          |
| 9                                                                      | Heels, rubber..... pair                       | —                  | —                 | 3,403,032          | 2,494,254          |
|                                                                        | \$                                            | —                  | —                 | 178,435            | 134,111            |
| 10                                                                     | Soles, rubber..... pair                       | —                  | —                 | 1,040,703          | 1,552,967          |
|                                                                        | \$                                            | —                  | —                 | 153,358            | 195,394            |
| 11                                                                     | Hose..... \$                                  | 34,153             | 8,418             | 4,080              | 14,532             |
| 12                                                                     | Tires, casings, automobile..... No.           | 10,034             | 4,072             | 2,874              | 4,291              |
|                                                                        | \$                                            | 110,110            | 14,870            | 10,634             | 72,163             |
| 13                                                                     | Tires, inner tubes..... \$                    | 4,557              | 17                | 112                | 2,285              |
|                                                                        | Totals, Rubber <sup>1</sup> ..... \$          | 5,082,029          | 3,413,346         | 1,894,514          | 2,878,563          |
| Seeds—                                                                 |                                               |                    |                   |                    |                    |
| 14                                                                     | Alsike..... bush.                             | 29,567             | 49,743            | 31,677             | 34,153             |
|                                                                        | \$                                            | 226,657            | 273,809           | 156,398            | 248,297            |
| 15                                                                     | Red clover..... bush.                         | 119                | 45,447            | 1,028              | 19,077             |
|                                                                        | \$                                            | 565                | 376,791           | 7,445              | 162,044            |
| 16                                                                     | Flaxseed..... bush.                           | 745,262            | 4,872             | 36,817             | 44,547             |
|                                                                        | \$                                            | 929,327            | 9,686             | 35,947             | 60,859             |
|                                                                        | Totals, Seeds <sup>1</sup> ..... \$           | 1,186,928          | 686,466           | 224,211            | 493,396            |
| Tobacco—                                                               |                                               |                    |                   |                    |                    |
| 17                                                                     | Unmanufactured..... lb.                       | 4,820,202          | 7,950,353         | 14,618,897         | 8,288,753          |
|                                                                        | \$                                            | 1,415,103          | 2,500,060         | 3,880,096          | 2,083,988          |
| 18                                                                     | Fodders, n.o.p..... \$                        | 94,704             | 110,141           | 178,075            | 267,203            |
| 19                                                                     | Hay..... ton                                  | 19,240             | 12,598            | 6,812              | 14,969             |
|                                                                        | \$                                            | 259,074            | 144,408           | 64,567             | 169,325            |
| 20                                                                     | Senega root..... lb.                          | 19,968             | 45,645            | 69,775             | 99,582             |
|                                                                        | \$                                            | 10,244             | 16,697            | 21,284             | 35,710             |
| <b>Totals, Agricultural and Vegetable Products</b>                     |                                               |                    |                   |                    |                    |
| —R. OTHER THAN FOOD <sup>1</sup> ..... \$                              |                                               |                    |                   |                    |                    |
|                                                                        |                                               | 8,123,885          | 7,019,316         | 6,453,847          | 6,104,653          |
| <b>Totals, Agricultural and Vegetable Products<sup>1</sup>..... \$</b> |                                               | <b>141,108,053</b> | <b>98,725,113</b> | <b>114,201,252</b> | <b>112,497,846</b> |
| <b>II. Animals and Animal Products.</b>                                |                                               |                    |                   |                    |                    |
| Animals, Living—                                                       |                                               |                    |                   |                    |                    |
| 21                                                                     | For exhibition..... \$                        | 4,123              | 25,200            | 150                | —                  |
| 22                                                                     | Cattle for improvement of stock..... No.      | 1                  | —                 | —                  | —                  |
|                                                                        | \$                                            | 3,000              | —                 | —                  | —                  |
| Other—                                                                 |                                               |                    |                   |                    |                    |
| 23                                                                     | Cattle, 1 year old or less..... No.           | —                  | —                 | —                  | —                  |
|                                                                        | \$                                            | —                  | —                 | —                  | —                  |
| 24                                                                     | Cattle more than 1 year old..... No.          | 6,223              | 26,734            | 24,301             | 54,448             |
|                                                                        | \$                                            | 623,405            | 2,165,423         | 1,721,544          | 3,504,613          |
| 25                                                                     | Horses..... No.                               | 25                 | 10                | 1                  | 4                  |
|                                                                        | \$                                            | 5,000              | 900               | 200                | 550                |
| 26                                                                     | Foxes..... No.                                | 194                | 77                | 50                 | 5                  |
|                                                                        | \$                                            | 50,700             | 12,004            | 1,750              | 525                |
|                                                                        | Totals, Animals, Living <sup>1</sup> ..... \$ | 692,931            | 2,205,347         | 1,724,674          | 3,509,487          |

<sup>1</sup> Totals include other items not specified.

## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |            |           |            | All Countries. |             |             |             | No. |
|----------------|------------|-----------|------------|----------------|-------------|-------------|-------------|-----|
| 1931.          | 1932.      | 1933.     | 1934.      | 1931.          | 1932.       | 1933.       | 1934.       |     |
| 253,418        | —          | —         | 377,897    | 270,102        | 25,458      | 35,667      | 404,939     | 1   |
| 320,444        | —          | —         | 407,140    | 337,210        | 24,129      | 40,764      | 435,546     | 2   |
| 171,608        | —          | —         | 1,659,962  | 3,239,164      | 2,512,607   | 1,992,059   | 2,543,225   | 3   |
| 2,681,244      | —          | —         | 11,553,409 | 18,722,198     | 11,622,256  | 9,920,907   | 16,028,484  | 4   |
| 4,948          | —          | —         | 4,833      | 49,342         | 8,501       | 4,054       | 7,805       | 5   |
| 70,206         | —          | —         | 28,863     | 154,843        | 17,608      | 9,575       | 33,137      | 6   |
| 10,539         | —          | —         | 37,174     | 11,441         | 1,778       | 994         | 38,153      | 7   |
| 69,592         | —          | —         | 87,485     | 71,793         | 2,346       | 1,365       | 89,132      | 8   |
| 3,141,486      | —          | —         | 12,076,897 | 19,286,044     | 11,666,339  | 9,972,611   | 16,586,299  | 9   |
| 201,660        | 47,850     | 10,500    | 8,500      | 312,336        | 281,411     | 174,901     | 135,020     | 10  |
| 379,655        | 60,515     | 13,433    | 11,926     | 564,596        | 374,905     | 221,407     | 193,481     | 11  |
| 412            | 8,070      | 220       | 1,507      | 1,270,183      | 873,173     | 557,610     | 995,947     | 12  |
| 295            | 1,000      | 114       | 583        | 438,556        | 261,374     | 176,243     | 286,412     | 13  |
| 427            | 101        | 60        | 166        | 5,217,179      | 2,372,796   | 1,172,944   | 1,966,921   | 14  |
| 461            | 60         | 60        | 161        | 3,577,980      | 1,508,835   | 641,806     | 1,029,381   | 15  |
| 460            | 161        | 232       | 795        | 1,652,067      | 1,515,324   | 1,337,136   | 2,143,886   | 16  |
| 1,154          | 350        | 381       | 1,556      | 2,598,477      | 2,102,682   | 1,671,951   | 2,173,548   | 17  |
| —              | —          | 512       | —          | —              | —           | 4,075,051   | 3,076,125   | 18  |
| —              | —          | 30        | —          | —              | —           | 215,312     | 161,794     | 19  |
| —              | —          | —         | —          | —              | —           | 1,102,289   | 1,650,668   | 20  |
| —              | —          | —         | —          | —              | —           | 163,926     | 208,766     | 21  |
| 39,410         | 26,546     | 168       | 214        | 205,681        | 102,116     | 64,107      | 97,371      | 22  |
| 2,778          | 8,702      | 27,738    | 1,405      | 1,153,660      | 614,106     | 429,359     | 567,308     | 23  |
| 15,202         | 30,580     | 156,406   | 6,125      | 10,508,716     | 4,696,432   | 3,022,931   | 4,002,561   | 24  |
| 912            | 3,339      | 1,318     | 213        | 1,239,190      | 443,328     | 181,783     | 304,724     | 25  |
| 154,130        | 117,349    | 185,847   | 95,879     | 21,062,785     | 11,062,668  | 6,645,869   | 8,968,722   | 26  |
| 31,831         | 42         | 250       | —          | 71,038         | 58,902      | 63,359      | 65,627      | 27  |
| 245,187        | 237        | 1,110     | —          | 536,209        | 316,152     | 310,607     | 471,948     | 28  |
| —              | 6          | —         | 4          | 127            | 46,412      | 2,795       | 48,676      | 29  |
| —              | 55         | —         | 25         | 657            | 383,299     | 15,667      | 408,691     | 30  |
| 651,540        | 1,041,602  | 334,621   | 565,724    | 1,396,892      | 1,046,474   | 371,438     | 610,327     | 31  |
| 987,550        | 1,142,095  | 255,429   | 628,528    | 1,917,236      | 1,151,781   | 291,376     | 689,520     | 32  |
| 1,499,924      | 1,213,127  | 284,696   | 660,738    | 2,819,096      | 1,992,371   | 682,042     | 1,650,395   | 33  |
| 4,736          | 3,001      | 2,401     | 533        | 6,051,319      | 8,222,922   | 14,748,069  | 8,460,639   | 34  |
| 1,433          | 1,115      | 562       | 139        | 1,505,594      | 2,536,998   | 3,902,244   | 2,110,265   | 35  |
| 999,054        | 537,101    | 223,529   | 202,189    | 1,206,218      | 857,330     | 510,787     | 575,084     | 36  |
| 119,464        | 32,814     | 9,831     | 4,280      | 156,722        | 56,281      | 27,138      | 29,362      | 37  |
| 1,094,720      | 254,040    | 54,803    | 24,965     | 1,590,657      | 523,102     | 212,682     | 295,232     | 38  |
| 60,472         | 158,895    | 37,808    | 78,267     | 183,392        | 346,263     | 225,907     | 339,305     | 39  |
| 36,636         | 56,898     | 10,346    | 25,334     | 103,950        | 131,335     | 68,745      | 118,558     | 40  |
| 7,823,804      | 2,551,238  | 948,114   | 13,329,602 | 48,770,695     | 29,630,365  | 22,519,821  | 30,845,452  | 41  |
| 27,644,374     | 11,035,258 | 3,905,813 | 22,312,738 | 292,280,637    | 204,398,365 | 203,370,418 | 205,804,526 | 42  |
| 250,138        | 210,330    | 100,459   | 57,916     | 254,261        | 238,565     | 100,609     | 58,096      | 43  |
| 2,485          | 5,139      | 3,729     | 2,892      | 2,646          | 5,274       | 3,758       | 2,950       | 44  |
| 472,147        | 536,674    | 286,551   | 188,106    | 544,110        | 556,129     | 290,296     | 195,627     | 45  |
| 27,188         | 16,423     | 1,894     | 50         | 27,690         | 17,059      | 2,884       | 976         | 46  |
| 531,686        | 282,244    | 31,002    | 419        | 538,175        | 287,696     | 38,151      | 5,489       | 47  |
| 9,720          | 5,813      | 3,603     | 2,682      | 18,920         | 35,846      | 30,717      | 60,283      | 48  |
| 837,998        | 451,674    | 214,256   | 151,090    | 1,717,913      | 2,790,959   | 2,046,338   | 3,764,653   | 49  |
| 6,020          | 6,713      | 5,124     | 5,946      | 8,452          | 7,308       | 5,229       | 6,175       | 50  |
| 119,514        | 168,127    | 201,674   | 298,646    | 169,823        | 209,855     | 215,282     | 333,586     | 51  |
| 401            | 518        | 233       | 27         | 992            | 683         | 290         | 40          | 52  |
| 47,188         | 34,251     | 9,555     | 1,105      | 199,888        | 53,955      | 11,755      | 2,780       | 53  |
| 2,489,136      | 1,852,811  | 928,683   | 771,818    | 3,769,548      | 4,367,085   | 2,829,953   | 4,471,870   | 54  |

## 12.—Principal Exports of Canadian Produce from Canada to United

| No.                                                    | Item.                                                  | United Kingdom. |           |           |           |
|--------------------------------------------------------|--------------------------------------------------------|-----------------|-----------|-----------|-----------|
|                                                        |                                                        | 1931.           | 1932.     | 1933.     | 1934.     |
| <b>II. Animals and Animal Products—continued.</b>      |                                                        |                 |           |           |           |
| Fishery products, n.o.p.—                              |                                                        |                 |           |           |           |
| Fish, Fresh—                                           |                                                        |                 |           |           |           |
| 1                                                      | Halibut..... cwt.                                      | —               | 5         | 348       | 5,110     |
| 2                                                      | Herrings..... cwt.                                     | —               | 56        | 2,328     | 48,619    |
| 3                                                      | Lobsters..... cwt.                                     | —               | —         | —         | —         |
| 4                                                      | Salmon or lake trout..... cwt.                         | 111             | —         | —         | 21        |
| 5                                                      | Mackerel..... cwt.                                     | 1,333           | —         | —         | —         |
| 6                                                      | Salmon..... cwt.                                       | 31,996          | 26,909    | 32,135    | 51,416    |
| 7                                                      | Smelts..... cwt.                                       | 641,383         | 456,218   | 409,708   | 742,595   |
| 8                                                      | Tullibee..... cwt.                                     | —               | —         | —         | —         |
| 9                                                      | Whitefish..... cwt.                                    | —               | —         | —         | —         |
|                                                        | Totals, Fish, Fresh <sup>1</sup> ..... \$              | 642,831         | 456,554   | 412,563   | 792,041   |
| Fish, Canned—                                          |                                                        |                 |           |           |           |
| 10                                                     | Clams..... cwt.                                        | 3               | 5         | 31        | 25        |
| 11                                                     | Codfish, boneless..... cwt.                            | 52              | 66        | 762       | 184       |
| 12                                                     | Lobsters..... cwt.                                     | —               | —         | —         | —         |
| 13                                                     | Salmon..... cwt.                                       | 22,060          | 28,646    | 30,849    | 30,374    |
| 14                                                     | Sardines..... cwt.                                     | 1,274,778       | 1,355,138 | 1,356,178 | 1,167,598 |
|                                                        | ..... \$                                               | 144,612         | 205,178   | 102,201   | 129,223   |
|                                                        | ..... cwt.                                             | 3,116,037       | 3,646,393 | 1,985,800 | 2,601,631 |
|                                                        | ..... \$                                               | —               | 407       | 1,004     | 200       |
|                                                        | ..... \$                                               | —               | 3,214     | 7,860     | 1,769     |
|                                                        | Totals, Fish, Canned <sup>1</sup> ..... \$             | 4,390,867       | 5,005,266 | 3,350,604 | 3,771,590 |
| Fish, Dried, Salted, Smoked, Pickled—                  |                                                        |                 |           |           |           |
| 15                                                     | Codfish, dried..... cwt.                               | 1,143           | 594       | 63        | 783       |
| 16                                                     | Codfish, pickled..... cwt.                             | 9,929           | 4,315     | 328       | 3,337     |
| 17                                                     | Codfish, smoked..... cwt.                              | —               | —         | 15        | —         |
| 18                                                     | Haddock..... cwt.                                      | —               | —         | 53        | —         |
| 19                                                     | Herring, dry-salted..... cwt.                          | 4               | —         | —         | —         |
| 20                                                     | Herring, pickled..... cwt.                             | 20              | —         | —         | —         |
| 21                                                     | Herring, smoked..... cwt.                              | —               | —         | —         | —         |
| 22                                                     | Mackerel, pickled..... cwt.                            | 4               | —         | —         | —         |
| 23                                                     | Pollock, hake and cusk, dried..... cwt.                | 13              | —         | —         | —         |
| 24                                                     | Salmon, dry-salted (chum)..... cwt.                    | 12              | 21        | 20        | 33        |
| 25                                                     | Salmon, pickled..... cwt.                              | 72              | 172       | 135       | 164       |
|                                                        | ..... \$                                               | —               | —         | —         | —         |
|                                                        | ..... cwt.                                             | —               | 563       | —         | 246       |
|                                                        | ..... \$                                               | —               | 2,590     | —         | 565       |
|                                                        | ..... \$                                               | —               | —         | —         | —         |
|                                                        | ..... cwt.                                             | 283             | 566       | 1,786     | 3,149     |
|                                                        | ..... \$                                               | 6,186           | 9,826     | 22,112    | 46,247    |
|                                                        | Totals, Fish, Dried, Salted, etc <sup>1</sup> ..... \$ | 16,220          | 16,931    | 22,640    | 50,313    |
|                                                        | Totals, Fishery Products, n.o.p. <sup>1</sup> ..... \$ | 5,051,110       | 5,481,301 | 3,795,369 | 4,685,328 |
| Furs—                                                  |                                                        |                 |           |           |           |
| 26                                                     | Beaver skins, undressed..... No.                       | 30,122          | 29,424    | 43,607    | 35,302    |
| 27                                                     | Fox skins, black and silver, undressed..... No.        | 653,660         | 422,344   | 458,862   | 348,808   |
| 28                                                     | Fox skins, other, undressed..... No.                   | 65,618          | 90,307    | 97,030    | 104,890   |
| 29                                                     | Marten skins, undressed..... No.                       | 3,082,948       | 2,476,781 | 3,097,560 | 4,262,770 |
|                                                        | ..... \$                                               | 39,445          | 74,039    | 79,092    | 88,053    |
|                                                        | ..... \$                                               | 1,548,185       | 1,379,320 | 1,090,225 | 1,288,757 |
|                                                        | ..... No.                                              | 17,650          | 16,203    | 14,612    | 13,809    |
|                                                        | ..... \$                                               | 366,135         | 217,639   | 181,817   | 172,736   |
| <sup>1</sup> Totals include other items not specified. |                                                        |                 |           |           |           |

<sup>1</sup> Totals include other items not specified.



## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |            |           |           | All Countries. |            |            |            | No. |
|----------------|------------|-----------|-----------|----------------|------------|------------|------------|-----|
| 1931.          | 1932.      | 1933.     | 1934.     | 1931.          | 1932.      | 1933.      | 1934.      |     |
| 34,697         | 37,277     | 15,596    | 35,625    | 34,918         | 37,597     | 16,402     | 41,424     | 1   |
| 440,046        | 366,405    | 119,576   | 298,847   | 443,066        | 369,193    | 125,286    | 353,097    |     |
| 190,717        | 102,954    | 94,717    | 158,542   | 190,995        | 103,265    | 95,133     | 159,020    | 2   |
| 411,838        | 306,382    | 207,748   | 185,420   | 413,601        | 308,081    | 210,219    | 187,441    |     |
| 97,394         | 96,131     | 119,249   | 101,317   | 97,394         | 96,131     | 119,251    | 101,318    | 3   |
| 2,208,189      | 1,831,554  | 1,913,900 | 1,558,211 | 2,208,189      | 1,831,562  | 1,913,941  | 1,558,232  | 4   |
| 34,365         | 25,570     | 20,058    | 21,886    | 34,482         | 25,570     | 20,060     | 21,893     | 5   |
| 369,917        | 244,993    | 179,866   | 200,161   | 371,352        | 244,993    | 179,886    | 200,224    | 6   |
| 10,772         | 20,442     | 7,043     | 3,969     | 10,774         | 20,443     | 7,043      | 3,971      | 7   |
| 60,225         | 124,616    | 26,262    | 17,744    | 60,241         | 124,624    | 26,262     | 17,756     | 8   |
| 50,954         | 55,490     | 28,741    | 51,922    | 50,954         | 55,490     | 28,741     | 51,922     | 9   |
| 698,202        | 517,571    | 231,916   | 392,927   | 698,202        | 517,571    | 231,916    | 392,927    | 10  |
| 64,877         | 68,362     | 70,165    | 47,532    | 64,887         | 68,373     | 70,167     | 47,535     | 11  |
| 832,814        | 785,859    | 715,107   | 562,732   | 832,984        | 786,022    | 715,127    | 562,783    | 12  |
| 36,110         | 36,868     | 14,824    | 20,249    | 36,110         | 36,868     | 14,824     | 20,249     | 13  |
| 267,420        | 203,400    | 79,531    | 94,742    | 267,420        | 203,400    | 79,531     | 94,742     | 14  |
| 94,443         | 81,464     | 86,321    | 114,087   | 94,443         | 81,464     | 86,321     | 114,087    | 15  |
| 1,095,617      | 879,347    | 824,457   | 1,052,720 | 1,095,617      | 879,347    | 824,457    | 1,052,720  | 16  |
| 9,436,690      | 7,850,402  | 6,185,819 | 6,742,282 | 10,292,840     | 8,605,189  | 6,730,552  | 7,737,482  | 17  |
| 5,825          | 2,268      | 1,277     | 170       | 5,925          | 2,342      | 1,327      | 205        | 18  |
| 99,024         | 30,836     | 22,543    | 2,230     | 100,293        | 31,858     | 23,533     | 2,541      | 19  |
| 19,233         | 19,679     | 17,287    | 19,690    | 19,523         | 20,138     | 17,626     | 20,019     | 20  |
| 192,292        | 190,092    | 132,800   | 129,707   | 195,466        | 194,970    | 135,857    | 132,524    | 21  |
| 13,153         | 17,036     | 15,304    | 11,613    | 54,289         | 63,446     | 65,062     | 59,305     | 22  |
| 737,468        | 746,679    | 606,763   | 407,136   | 3,048,713      | 2,913,304  | 2,711,307  | 2,222,128  | 23  |
| 92             | 30,009     | 8,735     | 39,633    | 427,387        | 473,077    | 288,286    | 503,037    | 24  |
| 1,036          | 163,903    | 47,199    | 226,853   | 6,317,741      | 6,078,853  | 3,603,628  | 5,773,403  | 25  |
| -              | 802        | -         | 1         | 37,780         | 32,283     | 22,691     | 34,260     | 26  |
| -              | 4,361      | -         | 10        | 359,087        | 271,427    | 168,561    | 263,560    | 27  |
| 1,037,036      | 1,143,124  | 811,942   | 766,253   | 10,117,022     | 9,543,527  | 6,693,467  | 8,456,921  | 28  |
| 89,745         | 86,186     | 81,266    | 73,991    | 403,345        | 367,104    | 319,288    | 335,779    | 29  |
| 750,778        | 522,811    | 374,001   | 403,758   | 3,195,190      | 2,210,468  | 1,563,386  | 1,783,090  | 30  |
| 100,733        | 66,811     | 62,928    | 107,337   | 105,887        | 70,545     | 80,876     | 116,807    | 31  |
| 440,699        | 256,072    | 180,867   | 286,564   | 459,058        | 271,767    | 227,728    | 304,298    | 32  |
| 8,494          | 5,327      | 5,643     | 6,342     | 8,678          | 5,478      | 5,775      | 6,546      | 33  |
| 106,444        | 55,273     | 50,116    | 59,438    | 108,837        | 57,330     | 51,471     | 61,558     | 34  |
| 18,339         | 10,420     | 8,529     | 7,194     | 36,971         | 21,040     | 16,618     | 14,618     | 35  |
| 177,899        | 95,676     | 63,708    | 62,375    | 299,863        | 151,949    | 101,454    | 94,806     | 36  |
| 1,409          | 298        | 1,840     | 83        | 771,998        | 839,711    | 307,199    | 574,251    | 37  |
| 4,356          | 1,439      | 1,810     | 605       | 1,279,775      | 887,235    | 276,618    | 612,502    | 38  |
| 11,275         | 5,932      | 6,419     | 8,806     | 47,584         | 28,591     | 27,608     | 28,005     | 39  |
| 45,357         | 21,596     | 18,449    | 22,743    | 171,672        | 87,586     | 64,140     | 64,963     | 40  |
| 17,170         | 8,879      | 14,934    | 21,882    | 67,253         | 43,733     | 45,813     | 67,122     | 41  |
| 58,354         | 29,461     | 40,407    | 63,208    | 230,525        | 156,830    | 118,529    | 178,027    | 42  |
| 14,728         | 14,498     | 12,556    | 20,678    | 90,894         | 80,403     | 86,050     | 103,785    | 43  |
| 88,325         | 75,074     | 40,317    | 65,705    | 492,985        | 350,005    | 255,277    | 280,570    | 44  |
| 4,430          | 2,414      | 3,044     | 3,334     | 45,633         | 48,351     | 38,813     | 39,673     | 45  |
| 20,941         | 8,345      | 9,219     | 9,072     | 267,375        | 202,693    | 135,909    | 133,870    | 46  |
| 41             | 19         | 22        | 23        | 123,449        | 434,491    | 163,683    | 95,078     | 47  |
| 151            | 116        | 86        | 80        | 359,367        | 771,122    | 188,891    | 168,841    | 48  |
| 7,634          | 3,535      | 1,557     | 1,364     | 22,446         | 15,284     | 15,663     | 23,954     | 49  |
| 123,667        | 45,549     | 16,555    | 17,779    | 403,654        | 188,010    | 155,547    | 325,114    | 50  |
| 1,883,153      | 1,135,089  | 813,760   | 1,031,808 | 7,427,499      | 5,445,514  | 3,216,397  | 4,110,530  | 51  |
| 12,953,060     | 10,651,533 | 8,086,807 | 8,695,865 | 28,894,983     | 24,437,078 | 17,185,351 | 20,779,938 | 52  |
| 46,467         | 54,869     | 36,410    | 43,755    | 78,540         | 85,296     | 80,475     | 80,888     | 53  |
| 973,066        | 761,217    | 374,343   | 470,359   | 1,664,064      | 1,197,208  | 836,648    | 837,707    | 54  |
| 6,604          | 7,606      | 3,645     | 2,736     | 95,034         | 136,294    | 141,468    | 128,084    | 55  |
| 336,707        | 222,448    | 113,966   | 95,998    | 4,599,661      | 3,900,673  | 4,563,721  | 5,268,354  | 56  |
| 24,127         | 31,670     | 25,647    | 40,103    | 64,131         | 107,540    | 107,680    | 131,757    | 57  |
| 664,410        | 639,768    | 390,924   | 684,687   | 2,235,269      | 2,051,383  | 1,518,666  | 2,020,648  | 58  |
| 8,575          | 10,853     | 7,286     | 9,529     | 26,568         | 27,093     | 22,066     | 23,577     | 59  |
| 174,860        | 155,134    | 94,981    | 137,800   | 549,502        | 373,520    | 278,573    | 313,916    | 60  |

## 12.—Principal Exports of Canadian Produce from Canada to United

| No.                                               | Item.                                                 | United Kingdom. |            |           |            |
|---------------------------------------------------|-------------------------------------------------------|-----------------|------------|-----------|------------|
|                                                   |                                                       | 1931.           | 1932.      | 1933.     | 1934.      |
| <b>II. Animals and Animal Products—continued.</b> |                                                       |                 |            |           |            |
| Furs—concluded.                                   |                                                       |                 |            |           |            |
| 1                                                 | Mink skins, undressed..... No.                        | 56,260          | 63,854     | 70,149    | 92,356     |
|                                                   | \$                                                    | 625,180         | 400,499    | 395,104   | 707,858    |
| 2                                                 | Muskrat skins, undressed..... No.                     | 1,153,549       | 1,282,093  | 1,586,153 | 1,298,062  |
|                                                   | \$                                                    | 829,923         | 793,824    | 784,929   | 701,055    |
| 3                                                 | Other skins, undressed..... \$                        | 999,786         | 820,130    | 712,330   | 1,082,569  |
| 4                                                 | Dressed furs... \$                                    | 17,832          | 3,467      | 53,145    | 237,742    |
| 5                                                 | Manufactures..... \$                                  | 12,961          | 7,699      | 5,542     | 8,587      |
|                                                   | Totals, Furs..... \$                                  | 8,136,610       | 6,385,578  | 6,779,514 | 8,810,882  |
| 6                                                 | Hair..... \$                                          | 13,047          | 11,047     | 659       | 1,634      |
| Hides and Skins—                                  |                                                       |                 |            |           |            |
| 7                                                 | Calf..... cwt.                                        | —               | —          | 17        | 55         |
|                                                   | \$                                                    | —               | —          | 100       | 500        |
| 8                                                 | Cattle..... cwt.                                      | 12,794          | 4,944      | 14,779    | 9,691      |
|                                                   | \$                                                    | 91,943          | 37,244     | 61,544    | 72,153     |
| 9                                                 | Horse..... cwt.                                       | —               | —          | —         | —          |
|                                                   | \$                                                    | —               | —          | —         | —          |
| 10                                                | Sheep..... cwt.                                       | —               | —          | —         | 969        |
|                                                   | \$                                                    | —               | —          | —         | 12,024     |
|                                                   | Totals, Hides and Skins <sup>1</sup> ..... \$         | 92,337          | 37,491     | 62,441    | 85,337     |
| Leather and Manufactures of—                      |                                                       |                 |            |           |            |
| Leather, Unmanufactured—                          |                                                       |                 |            |           |            |
| 11                                                | Harness..... \$                                       | 114             | 212        | —         | 110        |
| 12                                                | Sole..... lb.                                         | 292,024         | 451,638    | 257,931   | 321,575    |
|                                                   | \$                                                    | 116,073         | 153,952    | 77,873    | 87,615     |
| 13                                                | Upper..... \$                                         | 923,789         | 1,379,102  | 1,786,549 | 2,284,237  |
|                                                   | Totals, Leather, Unmanufactured <sup>1</sup> . \$     | 1,062,592       | 1,571,377  | 1,833,546 | 2,400,834  |
| Leather, Manufactured—                            |                                                       |                 |            |           |            |
| 14                                                | Boots and shoes..... \$                               | 12,480          | 5,246      | 7,347     | 52,133     |
| 15                                                | Gloves and mitts..... \$                              | 47,843          | 127,165    | 115,137   | 203,214    |
|                                                   | Totals, Leather and Manufactures of <sup>1</sup> . \$ | 1,125,073       | 1,706,827  | 2,012,960 | 2,666,105  |
| Meats—                                            |                                                       |                 |            |           |            |
| Fresh—                                            |                                                       |                 |            |           |            |
| 16                                                | Beef..... cwt.                                        | 2,889           | 4,781      | 25,307    | 76,763     |
|                                                   | \$                                                    | 25,039          | 28,776     | 100,378   | 410,066    |
| 17                                                | Pork..... cwt.                                        | 966             | 6,817      | 20,492    | 8,233      |
|                                                   | \$                                                    | 15,160          | 71,133     | 174,619   | 86,632     |
| 18                                                | Poultry..... lb.                                      | 35,661          | 161,425    | 1,248,363 | 1,428,753  |
|                                                   | \$                                                    | 9,707           | 39,284     | 242,751   | 234,898    |
| Cured, Canned or Prepared—                        |                                                       |                 |            |           |            |
| 19                                                | Bacon and hams..... cwt.                              | 105,249         | 150,276    | 366,077   | 945,597    |
|                                                   | \$                                                    | 2,278,616       | 1,751,231  | 3,430,212 | 12,366,426 |
| 20                                                | Canned meats..... lb.                                 | 64,559          | 15,617     | 513,368   | 845,038    |
|                                                   | \$                                                    | 14,164          | 4,675      | 87,851    | 142,501    |
| 21                                                | Pork, dry-salted..... cwt.                            | 5,839           | 11,389     | 18,798    | 8,421      |
|                                                   | \$                                                    | 127,821         | 101,937    | 155,368   | 95,449     |
| 22                                                | Pork, pickled..... cwt.                               | 26              | 38         | 1,207     | 1,027      |
|                                                   | \$                                                    | 591             | 306        | 6,329     | 5,724      |
| 23                                                | Soups, all kinds..... \$                              | 619,840         | 665,554    | 599,080   | 676,501    |
|                                                   | Totals, Meats <sup>1</sup> ..... \$                   | 3,211,075       | 2,818,472  | 4,905,118 | 14,261,527 |
| Milk and Its Products—                            |                                                       |                 |            |           |            |
| 24                                                | Cream, fresh..... gal.                                | —               | —          | —         | —          |
|                                                   | \$                                                    | —               | —          | —         | —          |
| 25                                                | Butter..... cwt.                                      | 117             | 86,927     | 21,022    | 37,185     |
|                                                   | \$                                                    | 3,266           | 1,822,481  | 346,499   | 665,867    |
| 26                                                | Cheese..... cwt.                                      | 736,266         | 813,106    | 825,081   | 714,133    |
|                                                   | \$                                                    | 11,896,727      | 10,005,074 | 8,344,304 | 7,710,667  |
| 27                                                | Milk powder..... cwt.                                 | 42,625          | 39,378     | 30,356    | 40,074     |
|                                                   | \$                                                    | 398,796         | 284,269    | 200,708   | 245,016    |
| 28                                                | Milk, condensed..... cwt.                             | 8,550           | 6,538      | 43,180    | 11,218     |
|                                                   | \$                                                    | 81,697          | 62,281     | 293,344   | 95,690     |
| 29                                                | Milk, evaporated..... cwt.                            | 13,584          | 33,475     | 119,790   | 119,859    |
|                                                   | \$                                                    | 115,142         | 236,644    | 727,610   | 786,882    |
|                                                   | Totals, Milk and Its Products <sup>1</sup> ..... \$   | 12,496,600      | 12,410,749 | 9,913,665 | 9,504,252  |

<sup>1</sup> Totals include other items not specified.

## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |           |           |           | All Countries. |            |            |            | No. |
|----------------|-----------|-----------|-----------|----------------|------------|------------|------------|-----|
| 1931.          | 1932.     | 1933.     | 1934.     | 1931.          | 1932.      | 1933.      | 1934.      |     |
| 66,507         | 76,994    | 101,453   | 131,273   | 124,339        | 141,668    | 172,640    | 226,833    | 1   |
| 839,764        | 697,140   | 798,368   | 1,465,397 | 1,487,894      | 1,105,716  | 1,198,096  | 2,202,563  | 2   |
| 496,344        | 780,776   | 175,848   | 561,066   | 1,704,501      | 2,082,356  | 1,785,728  | 1,894,688  | 3   |
| 390,963        | 622,631   | 117,524   | 449,879   | 1,264,892      | 1,429,494  | 916,422    | 1,174,684  | 4   |
| 2,088,263      | 1,199,662 | 570,009   | 1,098,632 | 3,135,531      | 2,052,163  | 1,321,624  | 2,212,135  | 5   |
| 32,104         | 19,974    | 8,434     | 20,933    | 78,753         | 51,789     | 87,126     | 288,775    |     |
| 52,652         | 43,427    | 25,585    | 31,880    | 78,232         | 56,153     | 36,536     | 44,904     |     |
| 5,552,779      | 4,497,526 | 2,494,134 | 4,455,565 | 15,093,798     | 12,218,099 | 10,757,412 | 14,363,776 |     |
| 220,750        | 129,170   | 61,352    | 133,790   | 324,789        | 209,128    | 150,084    | 293,794    |     |
| 53,440         | 33,666    | 15,105    | 23,327    | 55,371         | 36,319     | 17,496     | 24,155     |     |
| 824,825        | 293,102   | 85,105    | 227,435   | 854,889        | 320,988    | 98,818     | 237,003    |     |
| 202,337        | 181,239   | 62,845    | 259,011   | 234,186        | 212,396    | 97,934     | 288,844    |     |
| 1,996,189      | 1,083,579 | 205,144   | 1,836,251 | 2,264,891      | 1,300,330  | 357,841    | 2,075,453  |     |
| 18,569         | 15,562    | 12,251    | 14,648    | 18,569         | 15,562     | 12,251     | 14,648     |     |
| 104,003        | 60,543    | 35,468    | 62,342    | 104,003        | 60,543     | 35,468     | 62,342     |     |
| 7,470          | 3,622     | 2,923     | 13,829    | 8,130          | 3,622      | 2,923      | 14,836     |     |
| 82,520         | 36,175    | 18,973    | 181,917   | 87,935         | 36,193     | 18,973     | 194,215    |     |
| 3,048,355      | 1,500,429 | 365,833   | 2,328,435 | 3,352,967      | 1,745,331  | 533,040    | 2,590,163  |     |
| 369,290        | 51,765    | —         | —         | 374,034        | 53,855     | 1,986      | 1,035      |     |
| 2,663,178      | 930,369   | 304,813   | 577,557   | 3,196,096      | 1,507,546  | 638,920    | 994,266    |     |
| 888,791        | 160,344   | 60,036    | 132,806   | 1,100,933      | 354,523    | 159,043    | 248,636    |     |
| 1,391,562      | 610,889   | 243,486   | 294,777   | 2,555,751      | 2,359,785  | 2,242,528  | 2,997,992  |     |
| 2,672,487      | 827,797   | 306,220   | 435,108   | 4,077,664      | 2,816,587  | 2,428,693  | 3,289,695  |     |
| 117,287        | 29,119    | 27,671    | 20,495    | 202,018        | 52,741     | 52,685     | 95,007     |     |
| 1,789          | 2,930     | 405       | 247       | 82,269         | 143,993    | 128,277    | 217,821    |     |
| 3,169,512      | 1,038,481 | 358,821   | 511,400   | 4,758,336      | 3,203,116  | 2,650,503  | 3,674,524  |     |
| 29,233         | 3,402     | 3,052     | 1,691     | 61,168         | 33,446     | 50,879     | 102,771    |     |
| 465,473        | 37,212    | 30,855    | 11,280    | 915,813        | 376,035    | 373,333    | 626,921    |     |
| 7,455          | 10,640    | 14,507    | 3,667     | 11,217         | 20,576     | 38,315     | 14,098     |     |
| 189,526        | 179,678   | 156,873   | 48,333    | 254,838        | 288,933    | 364,072    | 161,044    |     |
| 26,806         | 505,380   | 49,203    | 9,149     | 298,548        | 910,579    | 1,552,375  | 1,688,919  |     |
| 7,324          | 109,513   | 8,398     | 1,684     | 90,014         | 217,739    | 307,205    | 285,962    |     |
| 11,624         | 13,814    | 12,685    | 7,335     | 121,770        | 185,146    | 402,101    | 960,178    |     |
| 498,961        | 423,873   | 321,943   | 197,409   | 2,914,273      | 2,446,564  | 4,023,518  | 12,683,273 |     |
| 15,555         | 7,723     | 8,364     | 3,150     | 154,806        | 68,879     | 602,966    | 973,218    |     |
| 2,522          | 3,441     | 4,278     | 1,515     | 34,019         | 19,382     | 110,396    | 169,363    |     |
| 32             | 32        | 3         | 2         | 7,057          | 13,088     | 22,412     | 9,307      |     |
| 1,100          | 898       | 82        | 47        | 154,553        | 119,694    | 191,052    | 102,643    |     |
| 5,915          | 5,969     | 10,720    | 1,799     | 28,364         | 28,123     | 38,092     | 25,381     |     |
| 131,674        | 84,628    | 119,123   | 26,352    | 339,978        | 258,188    | 288,589    | 169,973    |     |
| 58             | 4         | 3,122     | 41,528    | 633,363        | 672,857    | 631,195    | 787,957    |     |
| 1,678,486      | 1,010,888 | 737,746   | 386,806   | 6,104,976      | 4,960,816  | 6,683,140  | 15,503,994 |     |
| 1,121,974      | 65,814    | 80,615    | 21,353    | 1,121,974      | 65,814     | 80,615     | 21,353     |     |
| 2,168,849      | 129,285   | 143,406   | 36,860    | 2,168,849      | 129,285    | 143,406    | 36,860     |     |
| 702            | 6,736     | 345       | 44        | 11,629         | 109,173    | 32,060     | 44,019     |     |
| 17,016         | 148,275   | 6,150     | 1,042     | 389,419        | 2,362,888  | 589,537    | 818,996    |     |
| 32,701         | 15,747    | 6,195     | 11,816    | 795,904        | 854,247    | 857,116    | 749,669    |     |
| 546,691        | 197,483   | 76,259    | 157,313   | 12,989,726     | 10,593,967 | 8,758,415  | 8,176,271  |     |
| 8,547          | 5,847     | 4,506     | 5,126     | 55,088         | 48,987     | 37,373     | 48,140     |     |
| 149,660        | 133,287   | 98,031    | 102,533   | 645,327        | 491,431    | 341,022    | 389,538    |     |
| 13,964         | —         | —         | —         | 119,443        | 74,074     | 78,240     | 28,498     |     |
| 115,783        | 5         | —         | —         | 1,361,304      | 865,106    | 756,900    | 322,990    |     |
| 5              | 55        | —         | —         | 85,640         | 75,396     | 161,238    | 158,168    |     |
| 45             | 321       | —         | —         | 977,825        | 623,555    | 1,113,829  | 1,141,369  |     |
| 3,249,421      | 660,467   | 325,730   | 297,883   | 18,787,543     | 15,118,063 | 11,706,193 | 10,886,289 |     |

## 12.—Principal Exports of Canadian Produce from Canada to United

| No.                                               | Item.                                                     | United Kingdom.   |                   |                   |                   |
|---------------------------------------------------|-----------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|
|                                                   |                                                           | 1931.             | 1932.             | 1933.             | 1934.             |
| <b>II. Animals and Animal Products—concluded.</b> |                                                           |                   |                   |                   |                   |
|                                                   | Oils, Fats, Greases and Wax—                              |                   |                   |                   |                   |
| 1                                                 | Fish, whale, etc., oils..... gal.                         | 592,587           | 85,380            | 199,730           | 92,743            |
|                                                   | \$                                                        | 110,213           | 15,974            | 24,873            | 9,621             |
| 2                                                 | Lard..... cwt.                                            | 1                 | 53,438            | 34,335            | 17,165            |
|                                                   | \$                                                        | 20                | 405,773           | 209,017           | 117,943           |
| 3                                                 | Tallow..... cwt.                                          | —                 | 15,777            | 5,454             | 1,267             |
|                                                   | \$                                                        | —                 | 47,916            | 16,613            | 4,138             |
|                                                   | Totals, Oils, Fats, Greases and Wax <sup>1</sup> \$       | 118,551           | 474,928           | 289,891           | 149,837           |
| 4                                                 | Eggs..... doz.                                            | 26,260            | 431,070           | 24,720            | 1,920,055         |
|                                                   | \$                                                        | 9,607             | 96,911            | 3,972             | 397,749           |
| 5                                                 | Honey..... lb.                                            | 1,275,776         | 1,948,047         | 2,457,003         | 1,853,093         |
|                                                   | \$                                                        | 131,734           | 184,501           | 269,833           | 166,445           |
| 5                                                 | Sausage casings..... \$                                   | 49,771            | 39,347            | 121,496           | 386,629           |
| 7                                                 | Tankage..... cwt.                                         | —                 | —                 | 11,984            | 10,835            |
|                                                   | \$                                                        | —                 | —                 | 13,924            | 15,732            |
|                                                   | <b>Totals, Animals and Animal Products<sup>1</sup> \$</b> | <b>31,173,615</b> | <b>32,028,165</b> | <b>29,932,648</b> | <b>44,707,074</b> |
| <b>III. Fibres and Textiles.</b>                  |                                                           |                   |                   |                   |                   |
|                                                   | Cotton—                                                   |                   |                   |                   |                   |
| 8                                                 | Duck..... yd.                                             | 56,735            | 138,510           | 108,693           | 78,052            |
|                                                   | \$                                                        | 24,916            | 29,576            | 22,459            | 29,574            |
| 9                                                 | Other fabrics..... yd.                                    | 29,576            | 46,325            | 75,610            | 102,852           |
|                                                   | \$                                                        | 4,129             | 7,402             | 16,562            | 29,600            |
| 10                                                | Underwear..... \$                                         | 29,876            | 24,776            | 10,264            | 23,554            |
|                                                   | Totals, Cotton <sup>1</sup> ..... \$                      | 203,268           | 191,341           | 207,526           | 276,200           |
| 11                                                | Flax, hemp and jute..... \$                               | 891               | 922               | 563               | 1,612             |
| Silk—                                             |                                                           |                   |                   |                   |                   |
| 12                                                | Socks and stockings, silk <sup>2</sup> ..... doz. pair    | —                 | —                 | 23,263            | 26,395            |
|                                                   | \$                                                        | —                 | —                 | 183,164           | 213,328           |
|                                                   | Totals, Silk <sup>1</sup> ..... \$                        | 1,121             | 1,462             | 186,638           | 289,965           |
| Wool—                                             |                                                           |                   |                   |                   |                   |
| 13                                                | In the grease..... lb.                                    | 610,526           | 3,641,063         | 3,434,265         | 2,601,832         |
|                                                   | \$                                                        | 86,462            | 322,327           | 309,736           | 484,294           |
| 14                                                | Pulled or slipped..... lb.                                | 69,509            | —                 | —                 | —                 |
|                                                   | \$                                                        | 12,726            | —                 | —                 | —                 |
| 15                                                | Clothing..... \$                                          | 7,394             | 2,982             | 2,806             | 9,372             |
|                                                   | Totals, Wool <sup>1</sup> ..... \$                        | 113,923           | 341,006           | 316,349           | 495,132           |
| 16                                                | Artificial silk..... \$                                   | 431               | 702               | 689               | 111,620           |
| 17                                                | Rags..... cwt.                                            | 16,667            | 14,840            | 7,324             | 9,184             |
|                                                   | \$                                                        | 143,714           | 105,499           | 42,283            | 71,561            |
| 18                                                | Binder twine..... cwt.                                    | 38,304            | 59,786            | 51,645            | 61,521            |
|                                                   | \$                                                        | 383,040           | 433,111           | 261,098           | 291,655           |
| 19                                                | Cordage, rope and twine, n.e.s..... \$                    | 11,561            | 8,509             | 5,423             | 299               |
| 20                                                | Bags, textile..... \$                                     | 26,048            | 34,570            | 30,503            | 28,590            |
| 21                                                | Felt, manufactures of..... \$                             | 124,822           | 149,848           | 131,468           | 186,507           |
| 22                                                | Oilcloths..... sq. yd.                                    | 443               | 6,499             | 5,416             | 6,370             |
|                                                   | \$                                                        | 38                | 499               | 352               | 380               |
|                                                   | <b>Totals, Fibres and Textiles<sup>1</sup>..... \$</b>    | <b>1,048,925</b>  | <b>1,386,235</b>  | <b>1,293,979</b>  | <b>1,949,624</b>  |
| <b>IV. Wood, Wood Products and Paper.</b>         |                                                           |                   |                   |                   |                   |
| Wood, Unmanufactured—                             |                                                           |                   |                   |                   |                   |
| Logs and Round Timber—                            |                                                           |                   |                   |                   |                   |
| 23                                                | Logs, cedar..... M ft.                                    | —                 | —                 | —                 | —                 |
|                                                   | \$                                                        | —                 | —                 | —                 | —                 |
| 24                                                | Logs, Douglas fir..... M ft.                              | 47                | 189               | 40                | —                 |
|                                                   | \$                                                        | 684               | 1,563             | 596               | —                 |
| 25                                                | Logs, other..... M ft.                                    | 4,428             | 4,238             | 4,319             | 8,164             |
|                                                   | \$                                                        | 179,016           | 163,086           | 136,299           | 244,502           |
| 26                                                | Poles, telegraph..... No.                                 | —                 | —                 | —                 | 25                |
|                                                   | \$                                                        | —                 | —                 | —                 | 100               |
| 27                                                | Railway ties..... No.                                     | 535,250           | 90,050            | 2,000             | 800               |
|                                                   | \$                                                        | 353,183           | 49,324            | 779               | 1,153             |
|                                                   | Totals, Logs and Round Timber <sup>1</sup> ... \$         | 532,909           | 214,473           | 137,754           | 245,755           |

<sup>1</sup> Totals include other items not specified.<sup>2</sup> Included with socks and stockings of all kinds prior to 1933.



## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |            |            |            | All Countries. |            |            |            | No. |
|----------------|------------|------------|------------|----------------|------------|------------|------------|-----|
| 1931.          | 1932.      | 1933.      | 1934.      | 1931.          | 1932.      | 1933.      | 1934.      |     |
| 2,434,162      | 2,437,859  | 552,105    | 750,371    | 3,039,524      | 2,530,483  | 1,528,953  | 853,203    | 1   |
| 661,801        | 378,809    | 102,944    | 162,232    | 776,419        | 396,990    | 225,606    | 174,620    | 2   |
| 48             | -          | -          | -          | 1,720          | 65,103     | 39,332     | 20,966     | 3   |
| 360            | -          | -          | -          | 24,841         | 510,153    | 250,151    | 151,747    | 4   |
| 3,167          | 19,831     | 1,418      | 2,598      | 3,341          | 37,897     | 15,021     | 10,744     | 5   |
| 15,890         | 49,239     | 4,947      | 8,508      | 17,654         | 105,519    | 39,433     | 34,591     | 6   |
| 712,204        | 452,212    | 127,700    | 176,324    | 1,038,425      | 1,113,030  | 586,716    | 391,662    | 7   |
| 1,489          | 2,100      | 9,314      | 539        | 186,936        | 659,941    | 270,340    | 2,122,904  | 8   |
| 536            | 622        | 1,961      | 172        | 66,122         | 161,998    | 66,400     | 448,236    | 9   |
| 37,448         | 33,218     | 8,262      | 8,610      | 1,752,628      | 2,672,975  | 2,679,536  | 2,306,248  | 10  |
| 4,203          | 3,297      | 765        | 810        | 167,505        | 229,710    | 281,575    | 187,786    | 11  |
| 331,584        | 383,096    | 200,236    | 274,409    | 646,096        | 621,243    | 524,241    | 1,046,010  | 12  |
| 209,511        | 182,946    | 225,393    | 226,745    | 209,721        | 187,371    | 249,316    | 242,044    | 13  |
| 363,557        | 165,754    | 174,835    | 288,264    | 364,173        | 174,707    | 199,796    | 310,846    | 14  |
| 34,068,408     | 22,342,515 | 13,948,692 | 18,435,329 | 83,714,772     | 68,798,683 | 54,333,047 | 75,151,480 | 15  |
| 2,445          | 568        | 1,469      | 2,069      | 351,261        | 373,599    | 322,757    | 332,764    | 16  |
| 8,571          | 3,235      | 8,475      | 765        | 210,036        | 118,810    | 76,864     | 126,439    | 17  |
| 8,198          | 2,136      | 3,903      | 220,553    | 690,705        | 996,618    | 2,079,333  | 1,981,783  | 18  |
| 3,313          | 714        | 691        | 80,097     | 74,959         | 256,760    | 689,915    | 753,406    | 19  |
| 40             | 93         | -          | 9          | 163,158        | 105,173    | 74,301     | 75,783     | 20  |
| 26,795         | 12,533     | 13,101     | 83,382     | 763,679        | 729,445    | 1,096,140  | 1,345,459  | 21  |
| 9,034          | 4,876      | 451        | 7,184      | 15,974         | 7,891      | 2,529      | 10,394     | 22  |
| -              | -          | 3          | 469        | -              | -          | 132,360    | 208,972    | 23  |
| -              | -          | 22         | 2,766      | -              | -          | 959,250    | 1,404,244  | 24  |
| 7,442          | 2,847      | 2,652      | 4,986      | 96,416         | 54,351     | 1,019,816  | 1,563,780  | 25  |
| 2,687,651      | 1,190,005  | 465,416    | 7,091,802  | 3,465,873      | 5,053,374  | 3,973,147  | 10,068,575 | 26  |
| 291,815        | 186,803    | 54,390     | 1,149,741  | 406,769        | 528,007    | 371,174    | 1,707,421  | 27  |
| -              | -          | -          | 820,854    | 73,836         | -          | -          | 829,178    | 28  |
| 57,857         | 37,898     | 22,259     | 210,004    | 13,822         | -          | -          | 212,751    | 29  |
| 405,086        | 253,866    | 90,487     | 23,606     | 272,527        | 120,597    | 75,621     | 107,847    | 30  |
| 4,152          | 881        | 985        | 984        | 872,582        | 713,499    | 474,585    | 2,094,259  | 31  |
| 110,921        | 85,572     | 65,786     | 104,599    | 219,744        | 212,061    | 81,586     | 212,874    | 32  |
| 403,456        | 214,474    | 98,171     | 349,154    | 133,402        | 102,173    | 77,638     | 118,968    | 33  |
| 80,987         | 107,153    | 95,418     | 68,217     | 602,841        | 331,481    | 164,801    | 455,612    | 34  |
| 920,430        | 924,389    | 499,517    | 317,186    | 138,750        | 184,411    | 166,129    | 150,317    | 35  |
| 1,303          | 2,698      | 2,121      | 172,952    | 1,502,839      | 1,499,366  | 855,438    | 705,496    | 36  |
| 578            | 8          | 323        | 646        | 91,958         | 38,661     | 23,499     | 264,218    | 37  |
| 4,404          | 2,543      | 2,643      | 4,652      | 66,937         | 95,433     | 85,354     | 81,132     | 38  |
| 15             | 100        | 30         | 1,072      | 614,848        | 545,279    | 396,807    | 461,226    | 39  |
| 15             | 81         | 30         | 117        | 270,498        | 135,762    | 407,782    | 534,505    | 40  |
| 2,068,531      | 1,743,794  | 867,628    | 2,530,968  | 85,670         | 33,763     | 77,293     | 84,569     | 41  |
| 21,962         | 19,415     | 33,200     | 41,497     | 6,504,182      | 5,512,130  | 4,731,094  | 7,828,684  | 42  |
| 227,724        | 158,574    | 307,419    | 376,251    | 46,338         | 70,851     | 71,318     | 67,424     | 43  |
| 98,351         | 87,222     | 55,971     | 56,803     | 486,395        | 678,914    | 702,633    | 651,650    | 44  |
| 1,236,679      | 924,788    | 469,382    | 550,806    | 141,973        | 129,339    | 117,156    | 165,108    | 45  |
| 31,183         | 38,798     | 11,333     | 16,958     | 1,669,344      | 1,313,197  | 940,165    | 1,497,525  | 46  |
| 347,536        | 368,383    | 109,193    | 158,639    | 49,112         | 62,029     | 27,488     | 42,506     | 47  |
| 862,246        | 329,607    | 149,251    | 191,662    | 651,429        | 702,156    | 333,774    | 530,299    | 48  |
| 3,601,464      | 1,236,112  | 538,279    | 565,189    | 865,251        | 331,006    | 150,399    | 192,956    | 49  |
| 535,207        | 467,069    | 288,981    | 394,177    | 3,610,531      | 1,242,203  | 542,848    | 569,495    | 50  |
| 494,005        | 370,360    | 210,367    | 402,098    | 1,355,016      | 616,627    | 303,606    | 874,586    | 51  |
| 6,128,426      | 3,179,176  | 1,747,337  | 2,117,289  | 987,351        | 447,763    | 216,691    | 600,165    | 52  |
|                |            |            |            | 7,719,251      | 4,555,042  | 2,870,562  | 3,958,019  | 53  |

## 12.—Principal Exports of Canadian Produce from Canada to United

| No.                                    | Item.                                                           | United Kingdom. |           |           |                    |
|----------------------------------------|-----------------------------------------------------------------|-----------------|-----------|-----------|--------------------|
|                                        |                                                                 | 1931.           | 1932.     | 1933.     | 1934.              |
| IV. Wood, Wood Products and Paper—con. |                                                                 |                 |           |           |                    |
| Wood, Unmanufactured—concluded.        |                                                                 |                 |           |           |                    |
| Sawmill and Planing-mill Products—     |                                                                 |                 |           |           |                    |
| Planks and boards—                     |                                                                 |                 |           |           |                    |
| 1                                      | Birch..... M ft.                                                | 31,739          | 28,709    | 37,276    | 46,437             |
|                                        | \$                                                              | 1,056,037       | 823,552   | 929,605   | 1,280,097          |
| 2                                      | Cedar..... M ft.                                                | 276             | 91        | 85        | 6,169              |
|                                        | \$                                                              | 15,743          | 3,403     | 3,474     | 86,466             |
| 3                                      | Douglas fir..... M ft.                                          | 54,533          | 51,183    | 91,783    | 266,633            |
|                                        | \$                                                              | 1,103,998       | 856,241   | 1,268,837 | 3,962,851          |
| 4                                      | Hemlock..... M ft.                                              | 1,264           | 305       | 1,950     | 27,064             |
|                                        | \$                                                              | 27,299          | 7,511     | 30,079    | 303,167            |
| 5                                      | Maple..... M ft.                                                | 3,427           | 2,056     | 3,802     | 6,104              |
|                                        | \$                                                              | 261,517         | 147,354   | 223,466   | 348,002            |
| 6                                      | Pine..... M ft.                                                 | 21,229          | 17,244    | 10,176    | 18,241             |
|                                        | \$                                                              | 1,297,968       | 1,020,390 | 467,248   | 699,175            |
| 7                                      | Spruce..... M ft.                                               | 51,369          | 16,553    | 51,715    | 224,347            |
|                                        | \$                                                              | 1,349,596       | 375,691   | 843,013   | 3,584,261          |
|                                        | Totals, Planks and Boards <sup>1</sup> ..... M ft.              | 163,995         | 117,051   | 197,807   | 595,647            |
|                                        | \$                                                              | 5,122,810       | 3,252,621 | 3,795,809 | 10,302,495         |
| 8                                      | Timber, Square—                                                 |                 |           |           |                    |
|                                        | Douglas fir..... M ft.                                          | 13,894          | 18,599    | 21,613    | 38,946             |
|                                        | \$                                                              | 270,610         | 289,014   | 312,143   | 543,305            |
| 9                                      | Other..... M ft.                                                | 2,543           | 1,869     | 1,630     | 1,731              |
|                                        | \$                                                              | 216,657         | 134,809   | 133,083   | 103,168            |
| 10                                     | Laths..... M                                                    | 2               | —         | 2         | —                  |
|                                        | \$                                                              | 8               | —         | 5         | —                  |
| 11                                     | Pickets..... M                                                  | —               | 495       | 932       | 487                |
|                                        | \$                                                              | —               | 11,200    | 14,902    | 8,961              |
| 12                                     | Shingles..... M                                                 | 754             | 570       | 2,181     | 3,635 <sup>2</sup> |
|                                        | \$                                                              | 2,260           | 1,171     | 4,427     | 8,441              |
| 13                                     | Shooks..... M                                                   | 120,669         | 137,209   | 152,274   | 148,400            |
|                                        | Totals, Sawmill and Planing-mill Products <sup>1</sup> ..... \$ | 5,895,093       | 3,981,715 | 4,498,098 | 11,199,472         |
| 14                                     | Christmas trees..... \$                                         | —               | —         | —         | —                  |
| 15                                     | Firewood..... cord                                              | —               | —         | —         | —                  |
| 16                                     | Pulpwood..... cord                                              | —               | —         | —         | 21                 |
|                                        | \$                                                              | —               | —         | —         | 116                |
| 17                                     | Spoolwood..... \$                                               | 498,177         | 460,366   | 363,927   | 307,047            |
|                                        | Totals, Wood, Unmanufactured <sup>1</sup> ..... \$              | 6,933,294       | 4,673,692 | 5,066,974 | 11,946,193         |
| Wood, Manufactured—                    |                                                                 |                 |           |           |                    |
| 18                                     | Cooperage..... \$                                               | 308             | 5         | 10,312    | 21,441             |
| Wood-pulp—                             |                                                                 |                 |           |           |                    |
| 19                                     | Sulphate (kraft)..... cwt.                                      | —               | —         | 3,120     | 12,579             |
|                                        | \$                                                              | —               | —         | 15,613    | 47,384             |
| 20                                     | Sulphite, bleached..... cwt.                                    | 115,353         | 238,953   | 253,862   | 404,476            |
|                                        | \$                                                              | 463,716         | 782,777   | 794,470   | 1,111,315          |
| 21                                     | Sulphite, unbleached..... cwt.                                  | 41,339          | 17,173    | 7,200     | —                  |
|                                        | \$                                                              | 70,889          | 25,287    | 8,671     | —                  |
| 22                                     | Mechanical..... cwt.                                            | 408,660         | 434,666   | 307,412   | 161,975            |
|                                        | \$                                                              | 623,638         | 616,095   | 373,422   | 153,315            |
| 23                                     | Other wood-pulp..... cwt.                                       | 9,421           | —         | —         | 471                |
|                                        | \$                                                              | 41,130          | —         | —         | 1,229              |
| 24                                     | Screenings..... cwt.                                            | —               | —         | —         | —                  |
|                                        | \$                                                              | —               | —         | —         | —                  |
|                                        | Totals, Wood-pulp <sup>1</sup> ..... cwt.                       | 574,773         | 690,792   | 571,594   | 579,501            |
|                                        | \$                                                              | 1,199,353       | 1,424,159 | 1,192,176 | 1,313,243          |
| 25                                     | Doors, sashes, blinds..... \$                                   | 3,202           | 2,552     | 13,133    | 385,081            |
| 26                                     | Handles..... \$                                                 | 44,950          | 52,295    | 55,574    | 86,206             |
| 27                                     | Furniture..... \$                                               | 6,117           | 2,603     | 13,113    | 6,689              |
| 28                                     | Match splints..... \$                                           | 402,463         | 446,612   | 364,369   | 323,525            |
|                                        | Totals, Wood, Manufactured <sup>1</sup> ..... \$                | 2,021,321       | 2,188,388 | 1,851,265 | 2,374,905          |
|                                        | Totals, Wood and Wood Products <sup>1</sup> ... \$              | 8,954,615       | 6,862,080 | 6,918,239 | 14,321,098         |

<sup>1</sup> Totals include other items not specified.<sup>2</sup> Quantities in 1934 are in squares of 100 sq. ft.

## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |            |            |            | All Countries. |            |            |            | No. |
|----------------|------------|------------|------------|----------------|------------|------------|------------|-----|
| 1931.          | 1932.      | 1933.      | 1934.      | 1931.          | 1932.      | 1933.      | 1934.      |     |
| 25,404         | 19,735     | 6,745      | 19,010     | 58,221         | 48,812     | 44,371     | 65,761     | 1   |
| 1,241,235      | 672,664    | 228,192    | 611,314    | 2,348,618      | 1,517,803  | 1,169,368  | 1,904,291  | 2   |
| 33,694         | 22,214     | 11,113     | 4,657      | 34,532         | 22,837     | 11,462     | 11,123     | 3   |
| 1,233,545      | 710,375    | 387,415    | 184,792    | 1,262,949      | 729,814    | 399,472    | 277,877    | 4   |
| 326,898        | 194,874    | 23,454     | 22,655     | 518,414        | 373,391    | 228,491    | 486,498    | 5   |
| 5,111,138      | 2,441,227  | 252,806    | 394,934    | 8,527,885      | 5,066,564  | 2,791,433  | 6,801,454  | 6   |
| 67,637         | 12,245     | 2,160      | 2,337      | 86,790         | 56,604     | 64,133     | 102,163    | 7   |
| 837,808        | 141,576    | 21,102     | 31,584     | 1,160,147      | 713,705    | 715,363    | 1,121,206  | 8   |
| 6,252          | 3,982      | 2,319      | 6,071      | 10,109         | 6,137      | 6,221      | 12,352     | 9   |
| 292,619        | 152,594    | 79,173     | 207,282    | 591,545        | 314,378    | 309,432    | 568,181    | 10  |
| 154,003        | 97,575     | 63,241     | 114,766    | 185,419        | 121,990    | 81,010     | 140,614    | 11  |
| 4,991,398      | 2,716,122  | 1,420,859  | 2,576,017  | 6,668,330      | 3,981,421  | 2,108,041  | 3,483,967  | 12  |
| 344,905        | 242,447    | 122,223    | 151,491    | 409,337        | 269,362    | 181,172    | 389,241    | 13  |
| 9,056,616      | 5,559,872  | 2,449,730  | 3,079,038  | 10,839,240     | 6,236,644  | 3,511,320  | 6,969,184  |     |
| 975,219        | 597,712    | 232,845    | 323,090    | 1,309,483      | 905,679    | 619,675    | 1,210,769  |     |
| 22,935,928     | 12,544,921 | 4,874,777  | 7,150,097  | 31,598,202     | 18,766,452 | 11,098,960 | 21,258,286 |     |
| 10,086         | 5,166      | 2,248      | 138        | 115,727        | 140,600    | 94,344     | 127,570    | 8   |
| 181,966        | 71,815     | 18,997     | 2,801      | 1,976,056      | 1,994,524  | 1,072,322  | 1,591,603  | 9   |
| 1,141          | 587        | 435        | 464        | 5,141          | 2,520      | 6,634      | 2,257      | 10  |
| 37,878         | 18,452     | 12,701     | 11,578     | 277,642        | 155,653    | 197,029    | 124,448    | 11  |
| 410,019        | 417,946    | 163,104    | 167,050    | 414,973        | 420,434    | 165,175    | 172,504    | 12  |
| 1,252,021      | 1,089,689  | 429,108    | 412,779    | 1,269,274      | 1,095,666  | 435,007    | 425,616    | 13  |
| 34,475         | 29,045     | 24,847     | 22,886     | 34,661         | 29,674     | 25,779     | 23,373     | 14  |
| 315,737        | 226,529    | 213,892    | 122,846    | 319,215        | 240,029    | 228,794    | 131,807    | 15  |
| 1,143,477      | 1,024,764  | 1,183,900  | 1,726,795  | 1,161,760      | 1,038,486  | 1,209,790  | 1,762,363  | 16  |
| 3,429,148      | 2,358,671  | 2,350,129  | 3,689,405  | 3,489,164      | 2,398,489  | 2,400,310  | 3,764,418  | 17  |
| 8,852          | 8,250      | 1,590      | 29,998     | 554,477        | 436,175    | 433,500    | 697,728    |     |
| 28,235,244     | 16,352,627 | 7,919,290  | 11,454,360 | 39,761,734     | 25,295,003 | 15,998,640 | 28,170,025 |     |
| 303,396        | 325,075    | 200,372    | 244,234    | 303,396        | 325,075    | 200,372    | 244,559    | 14  |
| 29,218         | 27,526     | 35,619     | 49,213     | 29,297         | 27,603     | 35,691     | 49,340     | 15  |
| 205,122        | 156,295    | 147,818    | 222,000    | 205,845        | 156,960    | 148,445    | 223,233    | 16  |
| 1,164,555      | 832,924    | 476,748    | 693,077    | 1,164,555      | 832,924    | 476,748    | 693,098    | 17  |
| 12,040,484     | 8,196,144  | 4,287,425  | 4,883,202  | 12,040,484     | 8,196,144  | 4,287,425  | 4,883,518  |     |
| 23,141         | 14,256     | 6,718      | 26,933     | 521,318        | 474,622    | 370,645    | 334,172    |     |
| 47,119,304     | 28,427,487 | 14,517,121 | 19,128,395 | 60,744,984     | 39,226,465 | 24,153,906 | 38,193,347 |     |
| 8,877          | 14,758     | 10,266     | 572,755    | 134,849        | 142,333    | 172,519    | 786,067    | 18  |
| 1,459,542      | 897,306    | 739,630    | 1,412,498  | 1,482,008      | 930,966    | 757,877    | 1,450,267  | 19  |
| 4,569,840      | 2,950,755  | 2,395,385  | 3,338,239  | 4,627,136      | 3,020,976  | 2,461,661  | 3,471,821  | 20  |
| 3,716,079      | 3,992,560  | 3,110,920  | 4,597,055  | 4,634,136      | 5,308,838  | 4,122,761  | 6,104,370  | 21  |
| 12,574,542     | 11,572,380 | 7,887,256  | 11,465,499 | 16,122,124     | 15,898,585 | 10,563,222 | 14,960,526 | 22  |
| 2,583,991      | 1,580,955  | 934,502    | 1,320,336  | 3,345,575      | 2,341,810  | 1,461,732  | 2,144,949  | 23  |
| 6,370,115      | 3,337,995  | 1,591,194  | 2,308,652  | 7,997,022      | 4,565,281  | 2,207,290  | 3,358,628  | 24  |
| 3,463,432      | 2,448,590  | 1,976,195  | 2,542,803  | 3,872,092      | 2,883,256  | 2,283,607  | 2,704,778  | 25  |
| 4,917,335      | 3,242,378  | 2,064,638  | 2,645,845  | 5,540,973      | 3,858,473  | 2,438,060  | 2,799,160  | 26  |
| 93,034         | 65,548     | 30,164     | 115,531    | 126,652        | 65,548     | 30,164     | 128,475    | 27  |
| 254,260        | 158,650    | 56,050     | 224,588    | 429,373        | 158,650    | 56,050     | 257,052    | 28  |
| 390,299        | 205,534    | 118,277    | 357,135    | 401,659        | 232,145    | 130,682    | 373,311    |     |
| 332,773        | 155,862    | 49,327     | 241,159    | 345,651        | 182,817    | 95,852     | 255,094    |     |
| 11,706,377     | 9,190,493  | 6,909,688  | 10,345,358 | 13,862,122     | 11,762,563 | 8,786,823  | 12,906,150 |     |
| 29,018,865     | 21,418,020 | 14,043,850 | 20,223,982 | 35,061,689     | 27,684,782 | 17,786,135 | 25,102,381 |     |
| 440            | 946        | 1,994      | 1,631      | 19,481         | 12,691     | 21,576     | 401,953    | 25  |
| 6,804          | 5,521      | 2,771      | 13,545     | 77,888         | 81,916     | 91,508     | 174,915    | 26  |
| 30,292         | 28,891     | 9,988      | 11,958     | 270,252        | 154,239    | 117,588    | 126,850    | 27  |
| —              | —          | —          | —          | 494,157        | 526,891    | 450,774    | 323,720    | 28  |
| 29,129,824     | 21,501,729 | 14,102,629 | 20,858,753 | 36,624,477     | 29,028,173 | 18,975,702 | 27,320,883 |     |
| 76,249,128     | 49,929,216 | 28,619,750 | 39,987,148 | 97,369,461     | 68,254,638 | 43,129,608 | 65,514,230 |     |

## 12.—Principal Exports of Canadian Produce from Canada to United

| No.                                    | Item.                                                       | United Kingdom. |            |            |            |
|----------------------------------------|-------------------------------------------------------------|-----------------|------------|------------|------------|
|                                        |                                                             | 1931.           | 1932.      | 1933.      | 1934.      |
| IV. Wood, Wood Products and Paper—con. |                                                             |                 |            |            |            |
| 1                                      | Paper, n.o.p.—                                              |                 |            |            |            |
|                                        | Pulp and fibre wall board..... cwt.                         | 97,493          | 129,365    | 99,483     | 134,490    |
|                                        | \$                                                          | 422,843         | 468,369    | 329,522    | 407,178    |
| 2                                      | Paper board, n.o.p..... \$                                  | 356,907         | 467,873    | 638,251    | 838,070    |
| 3                                      | Book paper..... cwt.                                        | 4,416           | 4,632      | 3,680      | 4,081      |
|                                        | \$                                                          | 48,195          | 39,124     | 31,620     | 33,175     |
| 4                                      | Newsprint..... cwt.                                         | 2,442,496       | 2,143,336  | 1,433,137  | 2,393,452  |
|                                        | \$                                                          | 6,956,655       | 5,385,872  | 2,950,081  | 4,300,690  |
| 5                                      | Wrapping paper..... cwt.                                    | 43,089          | 36,956     | 17,870     | 9,600      |
|                                        | \$                                                          | 218,575         | 182,887    | 88,023     | 47,604     |
| 6                                      | Wall paper..... roll                                        | 258,149         | 473,126    | 205,243    | 257,737    |
|                                        | \$                                                          | 50,096          | 72,207     | 25,974     | 37,182     |
| 7                                      | Roofing paper..... \$                                       | 28,090          | 5,057      | 9,037      | 4,969      |
| 8                                      | Waste paper..... cwt.                                       | —               | —          | —          | —          |
|                                        | \$                                                          | —               | —          | —          | —          |
|                                        | Totals, Paper, n.o.p. <sup>1</sup> ..... \$                 | 8,218,016       | 6,747,908  | 4,254,995  | 5,948,280  |
| Books and Printed Matter—              |                                                             |                 |            |            |            |
| 9                                      | Books..... \$                                               | 23,880          | 23,873     | 17,482     | 16,469     |
| 10                                     | Newspapers, etc..... \$                                     | 152,901         | 100,703    | 110,912    | 117,057    |
|                                        | Totals, Wood, Wood Products and Paper <sup>1</sup> ..... \$ | 17,350,424      | 13,734,973 | 11,301,796 | 20,403,201 |
| V. Iron and Its Products.              |                                                             |                 |            |            |            |
| Pigs, Ingots, Blooms and Billets—      |                                                             |                 |            |            |            |
| 11                                     | Pig iron..... ton                                           | —               | —          | —          | —          |
|                                        | \$                                                          | —               | —          | —          | —          |
| 12                                     | Ferro-manganese and ferro-silicon..... ton                  | —               | 22         | —          | 1          |
|                                        | \$                                                          | —               | 1,532      | —          | 20         |
| 13                                     | Billets, ingots and blooms..... ton                         | —               | —          | —          | 9,725      |
|                                        | \$                                                          | —               | —          | —          | 193,015    |
|                                        | Totals, Pigs, Ingots, Blooms and Billets..... ton           | —               | 22         | —          | 9,726      |
|                                        | \$                                                          | —               | 1,532      | —          | 193,035    |
| 14                                     | Scrap iron..... ton                                         | 710             | 48         | 58         | 776        |
|                                        | \$                                                          | 12,390          | 890        | 1,327      | 6,674      |
| Rolling-mill Products—                 |                                                             |                 |            |            |            |
| 15                                     | Bars and rods..... ton                                      | 36              | —          | —          | 9,512      |
|                                        | \$                                                          | 4,373           | —          | —          | 257,249    |
| 16                                     | Rails..... ton                                              | —               | —          | —          | —          |
|                                        | \$                                                          | —               | —          | —          | —          |
| 17                                     | Structural steel..... ton                                   | —               | 24         | 240        | 46         |
|                                        | \$                                                          | —               | 2,640      | 23,880     | 4,410      |
|                                        | Totals, Rolling-mill Products <sup>1</sup> ..... \$         | 4,373           | 3,259      | 23,901     | 267,590    |
| 18                                     | Pipe and tubing..... \$                                     | 138,407         | 54,950     | 765        | —          |
| 19                                     | Wire..... \$                                                | 107,719         | 24,172     | 12,595     | 95,112     |
| 20                                     | Chains..... \$                                              | 28,092          | 28,940     | 29,218     | 31,989     |
| 21                                     | Engines and boilers..... \$                                 | 4,320           | 339        | 525        | 2,944      |
| Farm Implements and Machinery—         |                                                             |                 |            |            |            |
| 22                                     | Cream separators..... \$                                    | 1,932           | 385        | —          | 3,533      |
| 23                                     | Milking machines..... \$                                    | —               | —          | —          | 1,240      |
| 24                                     | Harvesters..... No.                                         | 280             | 369        | 113        | 153        |
|                                        | \$                                                          | 49,198          | 64,570     | 24,167     | 25,975     |
| 25                                     | Mowers..... No.                                             | 191             | 363        | 6          | 5          |
|                                        | \$                                                          | 10,876          | 17,989     | 312        | 330        |
| 26                                     | Reaper-threshers..... No.                                   | 1               | —          | —          | 5          |
|                                        | \$                                                          | 1,341           | —          | —          | 4,445      |
| 27                                     | Cultivators..... No.                                        | 47              | 31         | 46         | 372        |
|                                        | \$                                                          | 3,488           | 2,479      | 1,106      | 6,368      |
| 28                                     | Drills..... No.                                             | 147             | 6          | 31         | 108        |
|                                        | \$                                                          | 15,982          | 1,169      | 6,565      | 10,829     |
| 29                                     | Harrow..... \$                                              | 5,135           | 8,061      | 12,754     | 7,522      |
| 30                                     | Ploughs..... \$                                             | 15,023          | 21,973     | 19,729     | 37,401     |
| 31                                     | Garden and farm tools..... \$                               | 47,525          | 42,111     | 30,833     | 32,513     |
| 32                                     | Threshing machines..... \$                                  | —               | 450        | 370        | 2,086      |
| 33                                     | Spades and shovels..... \$                                  | 613             | 10         | —          | 318        |
| 34                                     | Parts..... \$                                               | 149,964         | 130,880    | 105,894    | 144,267    |
|                                        | Totals, Farm Implements and Machinery <sup>1</sup> \$       | 332,893         | 315,136    | 217,495    | 292,816    |

<sup>1</sup>Totals include other items not specified.



## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |             |            |             | All Countries. |             |             |             | No. |
|----------------|-------------|------------|-------------|----------------|-------------|-------------|-------------|-----|
| 1931.          | 1932.       | 1933.      | 1934.       | 1931.          | 1932.       | 1933.       | 1934.       |     |
| 13,193         | 1,188       | 401        | 374         | 168,973        | 196,028     | 148,580     | 203,178     | 1   |
| 54,246         | 4,793       | 1,323      | 842         | 696,886        | 718,335     | 500,185     | 640,113     | 2   |
| 833,840        | 469,738     | 357,179    | 429,651     | 1,306,060      | 1,033,372   | 1,129,764   | 1,451,924   | 3   |
| 139            | 958         | 559        | 401         | 34,237         | 24,555      | 21,307      | 43,903      | 4   |
| 2,061          | 6,140       | 4,750      | 5,807       | 310,789        | 196,725     | 176,496     | 296,339     | 5   |
| 38,855,192     | 34,377,933  | 28,400,168 | 33,246,052  | 44,848,479     | 39,942,149  | 33,259,697  | 40,481,134  | 6   |
| 110,783,516    | 89,389,666  | 64,489,012 | 61,180,121  | 127,352,706    | 103,003,352 | 74,136,863  | 73,238,482  | 7   |
| 22,039         | 13,133      | 628        | 14,901      | 282,395        | 244,417     | 160,095     | 186,701     | 8   |
| 13,082         | 22,942      | 1,575      | 24,487      | 1,416,482      | 1,064,923   | 598,719     | 519,662     | 9   |
| 163,736        | 129,943     | 35,463     | 9,608       | 1,665,046      | 1,316,297   | 895,496     | 1,056,311   | 10  |
| 38,622         | 23,177      | 2,120      | 2,120       | 250,212        | 180,607     | 104,759     | 130,531     | 11  |
| 58             | 1,626       | 2,133      | 7,135       | 109,350        | 66,573      | 53,014      | 86,378      | 12  |
| 285,966        | 213,077     | 188,455    | 293,896     | 286,220        | 213,177     | 189,607     | 293,896     | 13  |
| 180,468        | 123,421     | 104,039    | 198,393     | 180,785        | 123,536     | 105,230     | 198,393     | 14  |
| 111,973,779    | 90,097,205  | 64,997,890 | 61,871,269  | 132,038,737    | 106,750,055 | 77,188,109  | 77,040,786  | 15  |
| 119,404        | 102,843     | 50,337     | 47,769      | 166,834        | 162,746     | 84,491      | 76,796      | 16  |
| 603,716        | 340,641     | 244,945    | 248,661     | 1,023,369      | 566,574     | 482,057     | 508,247     | 17  |
| 188,949,408    | 140,473,352 | 93,914,355 | 102,156,637 | 230,604,474    | 175,740,269 | 120,886,796 | 143,142,398 | 18  |
| 347            | 3,171       | 2,671      | 16,643      | 407            | 3,171       | 2,671       | 16,643      | 19  |
| 6,754          | 55,933      | 45,403     | 266,410     | 8,074          | 55,933      | 45,403      | 266,410     | 20  |
| 31,900         | 18,811      | 17,699     | 56,216      | 32,166         | 19,166      | 18,084      | 56,689      | 21  |
| 1,976,892      | 999,583     | 827,684    | 2,428,738   | 1,994,536      | 1,029,797   | 862,277     | 2,468,297   | 22  |
| —              | —           | —          | —           | 1,488          | —           | —           | 10,185      | 23  |
| —              | —           | —          | —           | 37,373         | —           | —           | 202,805     | 24  |
| 32,247         | 21,982      | 20,370     | 72,859      | 34,061         | 22,337      | 20,755      | 83,517      | 25  |
| 1,983,646      | 1,055,516   | 873,087    | 2,695,148   | 2,039,983      | 1,085,730   | 907,680     | 2,937,512   | 26  |
| 30,619         | 22,752      | 15,546     | 81,505      | 36,031         | 24,584      | 38,621      | 143,747     | 27  |
| 246,985        | 130,851     | 75,711     | 487,278     | 311,689        | 148,029     | 199,707     | 889,558     | 28  |
| 779            | 288         | 322        | 20          | 5,903          | 749         | 493         | 10,839      | 29  |
| 34,560         | 11,918      | 11,513     | 839         | 234,551        | 34,190      | 20,695      | 307,917     | 30  |
| 9,255          | 200         | 4,848      | 4,856       | 22,815         | 9,333       | 4,848       | 24,921      | 31  |
| 201,556        | 6,053       | 187,237    | 122,447     | 613,729        | 244,876     | 187,237     | 730,016     | 32  |
| 30             | —           | 1          | 1           | 2,346          | 405         | 262         | 330         | 33  |
| 1,070          | —           | 60         | 25          | 291,784        | 42,906      | 25,156      | 34,460      | 34  |
| 238,662        | 19,280      | 198,922    | 123,541     | 1,148,608      | 331,812     | 235,212     | 1,080,697   | 35  |
| 625,925        | 415,686     | 168,162    | 255,502     | 1,652,280      | 1,068,481   | 581,916     | 750,397     | 36  |
| 7,000          | 3,448       | 318        | 2,618       | 531,367        | 122,447     | 65,254      | 386,711     | 37  |
| 206            | 508         | 23         | 557         | 112,809        | 91,597      | 66,831      | 85,913      | 38  |
| 15,732         | 61,114      | 27,920     | 9,642       | 160,125        | 106,632     | 58,338      | 101,145     | 39  |
| 8,150          | 3,402       | 1,856      | 4,004       | 30,792         | 5,660       | 5,118       | 40,054      | 40  |
| 268,012        | 88,781      | 32,760     | 31,169      | 269,637        | 90,168      | 33,545      | 32,443      | 41  |
| 472            | 79          | 27         | 11          | 3,787          | 1,675       | 602         | 837         | 42  |
| 96,177         | 38,917      | 5,146      | 1,449       | 682,303        | 323,426     | 111,955     | 134,751     | 43  |
| 662            | 182         | 78         | 7           | 6,318          | 2,218       | 332         | 854         | 44  |
| 34,423         | 9,991       | 4,239      | 400         | 380,842        | 115,662     | 18,265      | 48,544      | 45  |
| 22             | 132         | 26         | —           | 367            | 165         | 191         | 8           | 46  |
| 33,429         | 122,716     | 22,089     | —           | 471,144        | 163,381     | 115,558     | 7,578       | 47  |
| 558            | 638         | 188        | 906         | 8,971          | 1,853       | 489         | 2,944       | 48  |
| 21,163         | 46,533      | 16,082     | 30,029      | 450,521        | 134,357     | 23,994      | 59,346      | 49  |
| 885            | 179         | 12         | 17          | 1,460          | 612         | 347         | 337         | 50  |
| 117,578        | 21,099      | 1,494      | 1,116       | 207,291        | 87,474      | 52,028      | 46,715      | 51  |
| 49,245         | 14,383      | 7,420      | 14,175      | 142,230        | 34,342      | 25,660      | 52,848      | 52  |
| 796,942        | 93,655      | 26,366     | 86,008      | 1,564,462      | 303,843     | 198,553     | 344,800     | 53  |
| 2,635          | 689         | 923        | 220         | 152,612        | 103,103     | 97,738      | 136,771     | 54  |
| 193,605        | 169,191     | 23,739     | 10,654      | 401,873        | 236,015     | 90,144      | 41,549      | 55  |
| 4              | —           | —          | —           | 135,894        | 86,522      | 48,576      | 70,288      | 56  |
| 291,490        | 133,665     | 58,247     | 114,923     | 1,755,694      | 655,261     | 449,604     | 701,936     | 57  |
| 2,030,436      | 794,012     | 220,794    | 322,519     | 7,188,078      | 2,484,965   | 1,324,776   | 1,819,826   | 58  |

## 12.—Principal Exports of Canadian Produce from Canada to United

| No.                                        | Item.                                              | United Kingdom. |           |           |            |
|--------------------------------------------|----------------------------------------------------|-----------------|-----------|-----------|------------|
|                                            |                                                    | 1931.           | 1932.     | 1933.     | 1934.      |
| <b>V. Iron and Its Products—concluded.</b> |                                                    |                 |           |           |            |
| Hardware and Cutlery—                      |                                                    |                 |           |           |            |
| 1                                          | Nails..... cwt.                                    | 162             | 261       | 348       | 106,446    |
|                                            | \$                                                 | 3,629           | 2,298     | 3,065     | 253,573    |
| 2                                          | Needles and pins..... \$                           | 316,600         | 446,201   | 496,583   | 471,195    |
| 3                                          | Bolts and nuts..... cwt.                           | 228             | 1,490     | 2,768     | 14,764     |
|                                            | \$                                                 | 1,441           | 8,624     | 16,574    | 80,012     |
| 4                                          | Skates..... \$                                     | 5,709           | 193       | 600       | 1,441      |
|                                            | Totals, Hardware and Cutlery <sup>1</sup> .... \$  | 468,485         | 513,112   | 529,103   | 860,737    |
| Machinery—                                 |                                                    |                 |           |           |            |
| 5                                          | Electric vacuum cleaners..... \$                   | 1,706,818       | 1,827,241 | 1,257,663 | 307,060    |
| 6                                          | Sewing machines..... \$                            | 120             | 343       | 787       | 4,872      |
| 7                                          | Washing machines..... \$                           | 73,115          | 168,339   | 107,586   | 153,313    |
| 8                                          | Adding machines..... \$                            | 51,272          | 38,616    | 40,794    | 60,726     |
| 9                                          | Typewriters..... \$                                | 38,786          | 95,462    | 879,422   | 11,119     |
|                                            | Totals, Machinery <sup>1</sup> ..... \$            | 2,071,926       | 2,328,594 | 2,920,719 | 1,388,039  |
| 10                                         | Tools, hand or machine..... \$                     | 20,518          | 28,715    | 160,626   | 223,250    |
| Vehicles—                                  |                                                    |                 |           |           |            |
| 11                                         | Automobile parts..... \$                           | 76,028          | 20,980    | 360,537   | 21,828     |
| Automobiles—                               |                                                    |                 |           |           |            |
| Freight—                                   |                                                    |                 |           |           |            |
| 12                                         | One ton or less..... No.                           | —               | —         | —         | 6          |
|                                            | \$                                                 | —               | —         | —         | 1,921      |
| 13                                         | Over one ton..... No.                              | 1               | —         | 13        | —          |
|                                            | \$                                                 | 421             | —         | 9,944     | —          |
| Passenger—                                 |                                                    |                 |           |           |            |
| 14                                         | \$500 or less..... No.                             | 259             | 104       | 561       | 1,129      |
|                                            | \$                                                 | 106,354         | 48,572    | 192,408   | 503,008    |
| 15                                         | \$500 to \$1,000..... No.                          | 651             | 136       | 1,282     | 1,042      |
|                                            | \$                                                 | 408,052         | 88,449    | 807,728   | 683,108    |
| 16                                         | Over \$1,000..... No.                              | 6               | 3         | 32        | 300        |
|                                            | \$                                                 | 12,320          | 5,155     | 55,268    | 459,264    |
|                                            | Totals, Automobiles..... No.                       | 917             | 243       | 1,888     | 2,477      |
|                                            | \$                                                 | 527,147         | 142,176   | 1,065,348 | 1,647,301  |
|                                            | Totals, Vehicles <sup>1</sup> ..... \$             | 603,881         | 163,866   | 1,426,268 | 1,670,701  |
| 17                                         | Furniture, metal..... \$                           | 57,665          | 80,442    | 85,863    | 14,396     |
|                                            | Totals, Iron and Its Products <sup>1</sup> .... \$ | 4,073,233       | 3,798,363 | 5,574,895 | 5,237,085  |
| <b>VI. Non-Ferrous Metals.</b>             |                                                    |                 |           |           |            |
| Aluminium—                                 |                                                    |                 |           |           |            |
| 18                                         | Scrap..... cwt.                                    | 4,237           | 474       | 1,623     | 15,500     |
|                                            | \$                                                 | 58,219          | 5,771     | 10,573    | 209,128    |
| 19                                         | Bars, blocks, etc..... cwt.                        | 63,909          | 107,076   | 80,523    | 229,022    |
|                                            | \$                                                 | 1,319,300       | 1,682,428 | 1,216,537 | 4,069,258  |
| 20                                         | Manufactures..... \$                               | 175,248         | 16,587    | 33,557    | 56,947     |
|                                            | Totals, Aluminium..... \$                          | 1,552,767       | 1,704,786 | 1,260,667 | 4,335,333  |
| Brass—                                     |                                                    |                 |           |           |            |
| 21                                         | Old and scrap..... cwt.                            | 2,402           | 621       | 4,229     | 21,876     |
|                                            | \$                                                 | 24,666          | 3,352     | 14,480    | 95,285     |
| 22                                         | Valves..... \$                                     | 132,443         | 104,866   | 76,862    | 100,346    |
|                                            | Totals, Brass <sup>1</sup> ..... \$                | 707,159         | 706,782   | 550,427   | 602,141    |
| Copper—                                    |                                                    |                 |           |           |            |
| 23                                         | Fine, in ore, matte, regulus..... cwt.             | 20,504          | 147,339   | 107,105   | 170,205    |
|                                            | \$                                                 | 205,049         | 1,472,397 | 321,314   | 893,781    |
| 24                                         | Blister..... cwt.                                  | —               | —         | —         | —          |
|                                            | \$                                                 | —               | —         | —         | —          |
| 25                                         | Old and scrap..... cwt.                            | 3,135           | 482       | 6,147     | 3,998      |
|                                            | \$                                                 | 28,165          | 2,850     | 26,745    | 22,467     |
| 26                                         | Bars, rods, strips..... cwt.                       | 2,244           | 205,898   | 1,056,042 | 1,275,579  |
|                                            | \$                                                 | 26,339          | 1,575,756 | 5,828,109 | 9,810,054  |
| 27                                         | Wire, insulated..... \$                            | —               | —         | 5,186     | —          |
|                                            | Totals, Copper <sup>1</sup> ..... \$               | 259,587         | 3,051,003 | 6,193,147 | 10,881,661 |

<sup>1</sup> Totals include other items not specified.

## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |            |           |           | All Countries. |            |            |            | No. |
|----------------|------------|-----------|-----------|----------------|------------|------------|------------|-----|
| 1931.          | 1932.      | 1933.     | 1934.     | 1931.          | 1932.      | 1933.      | 1934.      |     |
| 1,268          | 480        | 510       | 512       | 50,777         | 20,597     | 24,192     | 164,238    | 1   |
| 8,004          | 2,407      | 1,773     | 1,996     | 226,399        | 102,819    | 96,886     | 462,720    | 2   |
| 897            | 60         | 244       | 120       | 382,776        | 502,380    | 593,583    | 599,378    | 3   |
| 52             | 62         | 234       | 82        | 6,395          | 4,653      | 6,384      | 20,755     | 4   |
| 524            | 395        | 1,109     | 790       | 49,580         | 30,149     | 41,895     | 123,948    |     |
| 126,004        | 102,985    | 27,564    | 4,299     | 150,921        | 116,664    | 44,550     | 43,496     |     |
| 143,438        | 108,211    | 31,636    | 8,756     | 1,482,633      | 851,747    | 896,735    | 1,363,473  |     |
| 7,270          | 674        | 215       | 1,068     | 2,099,333      | 1,925,130  | 1,305,998  | 338,367    | 5   |
| 3,595          | 2,618      | 1,332     | 19,112    | 1,851,210      | 692,447    | 435,549    | 649,051    | 6   |
| 999            | 550        | 170       | 498       | 135,568        | 219,983    | 134,429    | 162,616    | 7   |
| 440            | 305        | 3,157     | 65        | 143,405        | 60,230     | 50,237     | 63,207     | 8   |
| 3,236          | 1,706      | 1,605     | 3,659     | 91,260         | 103,768    | 992,950    | 290,340    | 9   |
| 350,532        | 135,987    | 150,808   | 216,359   | 5,542,753      | 3,675,623  | 3,938,433  | 2,923,526  |     |
| 10,317         | 13,204     | 6,635     | 3,059     | 161,091        | 107,765    | 357,557    | 584,670    | 10  |
| 54,471         | 67,689     | 32,636    | 23,532    | 1,250,043      | 714,222    | 2,016,653  | 1,444,515  | 11  |
| 18             | 14         | 11        | 12        | 3,961          | 1,660      | 977        | 2,250      | 12  |
| 3,085          | 2,015      | 1,520     | 960       | 1,305,592      | 545,964    | 281,209    | 684,044    | 13  |
| 3              | 4          | 3         | 2         | 9,563          | 1,208      | 1,270      | 4,791      |     |
| 1,935          | 2,500      | 2,100     | 750       | 3,907,656      | 513,307    | 524,884    | 1,835,794  |     |
| 317            | 343        | 261       | 294       | 17,999         | 4,889      | 7,613      | 16,463     | 14  |
| 73,168         | 86,066     | 55,502    | 55,407    | 6,818,126      | 1,902,392  | 2,690,244  | 5,451,175  | 15  |
| 44             | 48         | 21        | 32        | 5,859          | 1,047      | 5,298      | 4,376      |     |
| 31,266         | 34,746     | 15,564    | 23,003    | 3,669,333      | 606,680    | 1,999,518  | 2,699,187  | 16  |
| 5              | 10         | 5         | 4         | 145            | 35         | 210        | 521        |     |
| 12,000         | 17,493     | 11,050    | 6,125     | 178,533        | 48,908     | 299,676    | 783,888    |     |
| 387            | 419        | 301       | 344       | 37,527         | 8,839      | 13,368     | 28,401     |     |
| 121,454        | 142,820    | 85,736    | 86,245    | 15,879,240     | 3,617,251  | 5,795,531  | 11,454,088 |     |
| 197,400        | 235,165    | 132,553   | 116,758   | 17,418,283     | 4,384,849  | 7,844,083  | 12,932,520 |     |
| 2,697          | 1,292      | 1,430     | 2,410     | 167,608        | 161,421    | 151,639    | 96,319     | 17  |
| 6,118,120      | 3,097,883  | 1,958,419 | 4,318,230 | 39,937,661     | 15,462,977 | 17,277,099 | 26,641,482 |     |
| 7,859          | 15,672     | 4,259     | 6,630     | 32,476         | 31,053     | 9,321      | 25,686     | 18  |
| 62,804         | 154,559    | 41,749    | 64,623    | 395,876        | 322,684    | 90,669     | 320,903    | 19  |
| 101,114        | 16,887     | 15,500    | 22,205    | 322,919        | 194,559    | 181,929    | 347,129    |     |
| 1,639,342      | 248,571    | 292,933   | 362,867   | 5,791,984      | 3,161,608  | 2,786,550  | 6,174,995  | 20  |
| 2,596          | 4,431      | 1,595     | 7,699     | 1,180,896      | 281,260    | 987,357    | 157,888    |     |
| 1,704,742      | 407,561    | 336,277   | 435,189   | 7,368,756      | 3,765,552  | 3,864,576  | 6,653,786  |     |
| 45,175         | 28,571     | 17,511    | 23,605    | 49,568         | 30,792     | 35,763     | 92,715     | 21  |
| 299,341        | 114,158    | 39,337    | 86,115    | 335,085        | 123,975    | 100,021    | 393,413    | 22  |
| 453            | 351        | 171       | 163       | 196,191        | 148,823    | 95,836     | 134,250    |     |
| 317,266        | 117,585    | 42,197    | 89,420    | 1,133,581      | 889,766    | 675,658    | 1,002,979  |     |
| 593,447        | 334,691    | 178,893   | 191,579   | 629,971        | 502,237    | 312,029    | 402,039    | 23  |
| 5,256,490      | 2,402,259  | 536,679   | 1,006,094 | 5,629,512      | 4,076,854  | 936,090    | 2,109,770  | 24  |
| 1,144,962      | 309,929    | 161,935   | 143,034   | 1,144,962      | 309,929    | 161,935    | 148,034    |     |
| 15,618,000     | 2,269,338  | 840,441   | 1,246,096 | 15,618,000     | 2,269,338  | 840,441    | 1,246,096  | 25  |
| 40,811         | 34,015     | 16,183    | 6,083     | 54,313         | 53,494     | 47,862     | 50,781     |     |
| 339,852        | 165,180    | 53,451    | 23,367    | 463,548        | 283,959    | 197,589    | 285,664    | 26  |
| 150,958        | 1,141,797  | 364,295   | —         | 155,645        | 1,588,793  | 1,785,253  | 2,013,093  |     |
| 1,617,767      | 9,559,684  | 2,231,920 | —         | 1,703,703      | 13,057,733 | 10,118,191 | 15,254,562 | 27  |
| 1,421          | 238        | 638       | 36        | 58,401         | 76,479     | 145,173    | 137,007    |     |
| 22,834,707     | 14,398,526 | 3,663,623 | 2,284,241 | 23,483,044     | 19,802,750 | 12,268,114 | 19,222,279 |     |

## 12.—Principal Exports of Canadian Produce from Canada to United

| No.                                      | Item.                                               | United Kingdom. |            |            |            |
|------------------------------------------|-----------------------------------------------------|-----------------|------------|------------|------------|
|                                          |                                                     | 1931.           | 1932.      | 1933.      | 1934.      |
| <b>VI. Non-Ferrous Metals—concluded.</b> |                                                     |                 |            |            |            |
| 1                                        | Lead, in ore..... cwt.                              | —               | —          | —          | —          |
|                                          | \$                                                  | —               | —          | —          | —          |
| 2                                        | Lead, pig..... cwt.                                 | 955,894         | 952,096    | 1,321,152  | 1,722,778  |
|                                          | \$                                                  | 2,853,605       | 1,869,509  | 1,812,774  | 3,289,246  |
| Nickel—                                  |                                                     |                 |            |            |            |
| 3                                        | In ore, etc..... cwt.                               | 310,795         | 194,348    | 54,735     | 258,818    |
|                                          | \$                                                  | 5,594,190       | 3,478,631  | 982,835    | 4,657,310  |
| 4                                        | Nickel oxide..... cwt.                              | 1,055           | 1,472      | 1,335      | 1,856      |
|                                          | \$                                                  | 25,284          | 31,034     | 31,883     | 58,816     |
| 5                                        | Fine..... cwt.                                      | 7,723           | 2,935      | 3,906      | 79,719     |
|                                          | \$                                                  | 279,269         | 102,353    | 140,426    | 3,827,623  |
|                                          | Totals, Nickel..... \$                              | 5,898,743       | 3,612,018  | 1,155,144  | 8,543,749  |
| Precious Metals—                         |                                                     |                 |            |            |            |
| 6                                        | Gold-bearing quartz, gold dust, etc..... \$         | —               | 937,367    | 300        | 380        |
| 7                                        | Platinum, in ore, etc..... oz.                      | 19,840          | 16,546     | 7,711      | 50,546     |
|                                          | \$                                                  | 1,612,720       | 1,322,510  | 616,600    | 2,021,750  |
| 8                                        | Silver in ore, concentrates, etc..... oz.           | —               | —          | —          | —          |
|                                          | \$                                                  | —               | —          | —          | —          |
| 9                                        | Silver bullion..... oz.                             | —               | 142,456    | 50,047     | 482,352    |
|                                          | \$                                                  | —               | 39,340     | 12,762     | 211,520    |
| 10                                       | Jewellers' sweepings..... \$                        | 33,027          | 29,505     | 81,447     | 282,644    |
|                                          | Totals, Precious Metals <sup>1</sup> ..... \$       | 1,650,446       | 2,330,012  | 711,184    | 2,519,254  |
| Zinc—                                    |                                                     |                 |            |            |            |
| 11                                       | In ore, etc..... cwt.                               | —               | —          | —          | —          |
|                                          | \$                                                  | —               | —          | —          | —          |
| 12                                       | Spelter..... cwt.                                   | 1,167,993       | 1,425,420  | 863,592    | 1,391,620  |
|                                          | \$                                                  | 3,434,377       | 3,209,143  | 1,897,565  | 4,299,743  |
|                                          | Totals, Zinc <sup>1</sup> ..... \$                  | 3,445,848       | 3,212,292  | 1,904,719  | 4,315,475  |
| 13                                       | Clocks and watches..... \$                          | 85,262          | 46,894     | 30,640     | 42,332     |
| Electric Apparatus—                      |                                                     |                 |            |            |            |
| 14                                       | Telegraph, telephone, radio apparatus..... \$       | 8,637           | 52,500     | 108,387    | 248,171    |
| 15                                       | Heating and cooking devices, domestic..... \$       | 7,003           | 16,656     | 43,031     | 42,178     |
| 16                                       | Spark plugs, magnetos, ignition apparatus..... \$   | 164,457         | 158,074    | 209,735    | 225,620    |
|                                          | Totals, Electric Apparatus <sup>1</sup> ..... \$    | 229,958         | 271,711    | 456,246    | 615,592    |
| 17                                       | Cobalt in ore..... cwt.                             | 144             | 208        | —          | —          |
|                                          | \$                                                  | 28,800          | 12,496     | —          | —          |
| 18                                       | Cobalt, metallic..... lb.                           | —               | —          | —          | 1,000      |
|                                          | \$                                                  | —               | —          | —          | 1,250      |
|                                          | Totals, Non-Ferrous Metals <sup>1</sup> ..... \$    | 17,153,570      | 17,266,439 | 14,598,651 | 35,834,863 |
| <b>VII. Non-Metallic Minerals.</b>       |                                                     |                 |            |            |            |
| 19                                       | Asbestos..... ton                                   | 3,416           | 1,658      | 1,518      | 4,786      |
|                                          | \$                                                  | 249,869         | 126,706    | 85,534     | 317,537    |
| 20                                       | Asbestos sand..... ton                              | 2,873           | 1,105      | 1,201      | 2,686      |
|                                          | \$                                                  | 69,797          | 24,647     | 27,115     | 51,919     |
| 21                                       | Asbestos mfrs..... \$                               | 124,252         | 59,631     | 32,334     | 58,452     |
|                                          | Totals, Asbestos..... \$                            | 443,918         | 210,984    | 144,983    | 427,908    |
| 22                                       | Porcelain insulators..... \$                        | 275,154         | 123,643    | 46,468     | 17,589     |
| Coal and Its Products—                   |                                                     |                 |            |            |            |
| 23                                       | Coal (incl. lignite)..... ton                       | 14,552          | 7,515      | 10,452     | 7,559      |
|                                          | \$                                                  | 99,943          | 48,954     | 64,503     | 43,104     |
| 24                                       | Coke..... ton                                       | —               | —          | 45         | —          |
|                                          | \$                                                  | —               | —          | 3,000      | —          |
| 25                                       | Tar..... gal.                                       | —               | —          | 962,190    | 1,541,002  |
|                                          | \$                                                  | —               | —          | 73,030     | 101,141    |
|                                          | Totals, Coal and Its Products <sup>1</sup> ..... \$ | 99,943          | 48,954     | 140,533    | 144,245    |
| 26                                       | Glass and glassware..... \$                         | 117,914         | 95,801     | 100,769    | 24,818     |
| 27                                       | Graphite..... cwt.                                  | 155             | 500        | 1,444      | 1,017      |
|                                          | \$                                                  | 1,188           | 2,900      | 8,888      | 6,097      |
| 28                                       | Mica..... \$                                        | 1,310           | 1,650      | 1,600      | 18,925     |

<sup>1</sup> Totals include other items not specified.



## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |            |            |            | All Countries. |            |            |            | No. |
|----------------|------------|------------|------------|----------------|------------|------------|------------|-----|
| 1931.          | 1932.      | 1933.      | 1934.      | 1931.          | 1932.      | 1933.      | 1934.      |     |
| 212,667        | 44,027     | 37,133     | 40,620     | 219,624        | 44,217     | 37,133     | 135,817    | 1   |
| 1,086,089      | 176,064    | 148,518    | 161,665    | 1,100,376      | 176,964    | 148,518    | 400,809    |     |
| —              | —          | —          | —          | 1,985,308      | 2,157,794  | 2,335,012  | 2,888,907  | 2   |
| —              | —          | —          | —          | 5,944,144      | 4,264,598  | 3,164,142  | 5,501,523  |     |
| 76,387         | 40,768     | 32,335     | 89,726     | 423,835        | 286,580    | 156,587    | 437,394    | 3   |
| 1,377,768      | 732,606    | 581,482    | 1,618,268  | 7,725,696      | 5,231,277  | 2,815,425  | 7,878,026  |     |
| 8,654          | 1,960      | 5,631      | 16,018     | 34,038         | 25,588     | 27,159     | 84,838     | 4   |
| 167,466        | 41,175     | 117,940    | 340,255    | 991,254        | 814,975    | 823,752    | 3,202,110  |     |
| 322,414        | 205,143    | 118,740    | 410,149    | 361,420        | 231,623    | 141,861    | 544,189    | 5   |
| 8,126,991      | 5,119,742  | 2,969,726  | 10,702,445 | 9,529,425      | 6,063,148  | 3,825,323  | 17,118,102 |     |
| 9,672,225      | 5,893,523  | 3,669,148  | 12,660,968 | 18,246,375     | 12,109,400 | 7,464,500  | 28,198,238 |     |
| 17,824,142     | 12,734,198 | 3,797,051  | 2,628,966  | 17,832,608     | 13,671,565 | 3,797,351  | 2,629,346  | 6   |
| —              | 2          | —          | —          | 21,332         | 17,147     | 9,002      | 52,788     |     |
| —              | 138        | —          | —          | 1,730,661      | 1,370,632  | 684,450    | 2,110,949  | 7   |
| 7,953,061      | 3,752,121  | 3,479,351  | 3,424,823  | 7,994,815      | 3,752,121  | 3,479,351  | 3,467,576  |     |
| 3,085,514      | 1,055,738  | 966,944    | 1,145,062  | 3,098,337      | 1,055,738  | 966,944    | 1,161,942  | 8   |
| 4,933,792      | 3,074,456  | 2,644,814  | 5,669,451  | 16,701,012     | 14,001,510 | 12,106,281 | 11,373,585 |     |
| 1,617,700      | 924,726    | 775,585    | 2,331,070  | 5,828,879      | 4,104,790  | 3,449,627  | 4,524,948  | 9   |
| 292,599        | 211,947    | 215,160    | 248,853    | 325,626        | 241,452    | 296,639    | 531,497    |     |
| 22,831,444     | 14,927,591 | 5,756,150  | 6,359,571  | 28,832,299     | 20,446,311 | 9,196,496  | 10,967,262 | 10  |
| —              | —          | —          | —          | —              | —          | —          | —          |     |
| —              | —          | —          | —          | 427,003        | —          | 22,540     | 180,922    | 11  |
| —              | —          | —          | —          | 801,096        | —          | 14,008     | 304,720    |     |
| —              | —          | —          | 560        | 1,745,176      | 2,307,298  | 1,588,107  | 1,909,926  | 12  |
| —              | —          | —          | 2,156      | 5,122,994      | 5,254,112  | 3,468,443  | 5,928,446  |     |
| 48,263         | 1,168      | 176        | 5,497      | 5,988,220      | 5,261,647  | 3,494,765  | 6,284,375  |     |
| 5,455          | 3,474      | 2,248      | 690        | 182,943        | 126,107    | 178,417    | 210,747    | 13  |
| 43,460         | 17,084     | 18,707     | 5,777      | 204,369        | 186,826    | 220,838    | 409,798    |     |
| 2,215          | 625        | 505        | 313        | 725,543        | 504,687    | 394,677    | 660,753    | 14  |
| 841            | 431        | 141        | 97         | 297,362        | 255,726    | 342,433    | 431,655    |     |
| 96,567         | 40,780     | 35,297     | 19,485     | 2,009,389      | 1,297,098  | 1,347,677  | 2,023,985  | 15  |
| 171            | 344        | 2          | 402        | 4,224          | 2,171      | 838        | 809        |     |
| 10,886         | 16,286     | 84         | 10,044     | 397,158        | 126,006    | 39,259     | 29,686     | 16  |
| 27,000         | 55,510     | 58,485     | 73,117     | 27,000         | 55,510     | 58,485     | 74,117     |     |
| 45,406         | 68,746     | 63,178     | 78,448     | 45,406         | 68,746     | 63,178     | 79,698     |     |
| 58,835,683     | 36,176,490 | 13,807,581 | 22,399,555 | 95,652,063     | 69,072,888 | 42,642,318 | 81,764,208 |     |
| 67,389         | 37,415     | 27,321     | 55,572     | 100,223        | 62,050     | 43,728     | 87,764     | 17  |
| 3,531,310      | 1,772,076  | 1,225,316  | 2,658,116  | 5,921,357      | 3,437,088  | 2,107,563  | 4,432,855  |     |
| 110,357        | 79,466     | 57,051     | 68,015     | 119,318        | 85,099     | 61,166     | 74,563     | 18  |
| 1,594,577      | 1,072,423  | 779,521    | 939,021    | 1,798,617      | 1,191,029  | 863,069    | 1,061,147  |     |
| 12,549         | 10,331     | 7,155      | 2,175      | 178,252        | 105,420    | 74,219     | 90,999     | 19  |
| 5,138,436      | 2,854,830  | 2,011,992  | 3,509,312  | 7,898,226      | 4,733,537  | 3,044,851  | 5,585,001  |     |
| 711            | 407        | 338        | 14         | 463,211        | 246,781    | 84,203     | 130,514    | 20  |
| 185,665        | 165,232    | 120,010    | 102,108    | 562,434        | 357,289    | 280,057    | 239,686    |     |
| 882,258        | 732,878    | 467,426    | 358,779    | 2,976,426      | 1,872,200  | 1,383,659  | 1,093,631  | 21  |
| 56,182         | 31,253     | 21,650     | 23,638     | 56,396         | 31,647     | 22,012     | 24,416     |     |
| 737,743        | 358,285    | 233,662    | 314,485    | 739,225        | 361,971    | 238,613    | 325,061    | 22  |
| 292,549        | 425,836    | 669,337    | 4,115,469  | 2,751,619      | 2,279,254  | 3,002,063  | 9,069,433  |     |
| 22,393         | 31,138     | 33,848     | 184,538    | 122,087        | 201,548    | 201,548    | 542,444    | 23  |
| 1,806,905      | 1,205,685  | 770,381    | 909,775    | 4,002,299      | 2,421,468  | 1,859,321  | 2,013,239  |     |
| 9,311          | 6,320      | 3,937      | 11,068     | 163,686        | 170,815    | 127,648    | 63,771     | 24  |
| 30,142         | 18,412     | 19,378     | 20,783     | 30,298         | 18,914     | 20,883     | 21,828     |     |
| 75,333         | 43,473     | 34,861     | 41,005     | 76,561         | 46,395     | 44,126     | 47,363     | 25  |
| 84,631         | 35,310     | 32,700     | 47,210     | 86,711         | 37,241     | 35,440     | 66,770     |     |

## 12.—Principal Exports of Canadian Produce from Canada to United

| No.                                   | Item.                                                 | United Kingdom. |             |             |             |
|---------------------------------------|-------------------------------------------------------|-----------------|-------------|-------------|-------------|
|                                       |                                                       | 1931.           | 1932.       | 1933.       | 1934.       |
| VII. Non-Metallic Minerals—concluded. |                                                       |                 |             |             |             |
|                                       | Petroleum and Its Products—                           |                 |             |             |             |
| 1                                     | Petroleum, crude..... gal.                            | 7,204,979       | 1,424,780   | —           | —           |
|                                       | \$                                                    | 341,921         | 63,562      | —           | —           |
| 2                                     | Kerosene, refined..... gal.                           | —               | —           | —           | —           |
|                                       | \$                                                    | —               | —           | —           | —           |
| 3                                     | Gasolene and naphtha..... gal.                        | —               | —           | 250         | —           |
|                                       | \$                                                    | —               | —           | 50          | —           |
|                                       | Totals, Petroleum and Its Products <sup>1</sup> \$    | 353,414         | 77,163      | 22,995      | 28,683      |
| 4                                     | Abrasives, artificial..... cwt.                       | 23,320          | 30,107      | 55,986      | 70,941      |
|                                       | \$                                                    | 93,819          | 100,528     | 419,178     | 529,527     |
| 5                                     | Cement, Portland..... cwt.                            | —               | —           | —           | —           |
|                                       | \$                                                    | —               | —           | —           | —           |
| 6                                     | Gypsum, crude..... ton                                | —               | —           | —           | —           |
|                                       | \$                                                    | —               | —           | —           | —           |
| 7                                     | Lime..... cwt.                                        | —               | —           | —           | —           |
|                                       | \$                                                    | —               | —           | —           | —           |
| 8                                     | Feldspar..... ton                                     | —               | —           | 10          | 22          |
|                                       | \$                                                    | —               | —           | 300         | 600         |
| 9                                     | Sand and gravel..... ton                              | —               | —           | —           | —           |
|                                       | \$                                                    | —               | —           | —           | —           |
| 10                                    | Talc..... cwt.                                        | 13,901          | 21,052      | 28,601      | 30,678      |
|                                       | \$                                                    | 11,562          | 16,421      | 23,600      | 26,548      |
|                                       | Totals, Non-Metallic Minerals <sup>1</sup> \$         | 1,546,819       | 894,408     | 1,290,055   | 1,897,685   |
| VIII. Chemicals and Allied Products.  |                                                       |                 |             |             |             |
| 11                                    | Acids..... cwt.                                       | 102,115         | 190,978     | 121,071     | 137,817     |
|                                       | \$                                                    | 890,328         | 1,302,102   | 824,271     | 934,439     |
| 12                                    | Drugs, medicinal..... \$                              | 243,238         | 262,902     | 534,356     | 405,612     |
| 13                                    | Explosives..... \$                                    | —               | —           | —           | —           |
| Fertilizers—                          |                                                       |                 |             |             |             |
| 14                                    | Ammonium sulphate..... cwt.                           | —               | —           | 20          | 33,600      |
|                                       | \$                                                    | —               | —           | 15          | 28,560      |
| 15                                    | Cyanamid..... cwt.                                    | —               | —           | 12          | —           |
|                                       | \$                                                    | —               | —           | 18          | —           |
|                                       | Totals, Fertilizers <sup>1</sup> \$                   | —               | —           | 121         | 28,560      |
| 16                                    | Paints, pigments and varnishes..... \$                | 125,050         | 127,154     | 138,594     | 182,501     |
| 17                                    | Soap, toilet..... lb.                                 | 3,662,969       | 4,784,007   | 4,725,728   | 7,547,857   |
|                                       | \$                                                    | 424,720         | 421,675     | 373,097     | 511,571     |
| Chemicals, Inorganic, n.o.p.—         |                                                       |                 |             |             |             |
| 18                                    | Arsenic, n.o.p..... cwt.                              | —               | —           | —           | —           |
|                                       | \$                                                    | —               | —           | —           | —           |
| 19                                    | Soda and sodium compounds..... cwt.                   | —               | —           | —           | 5,171       |
|                                       | \$                                                    | —               | —           | —           | 28,401      |
| 20                                    | Cobalt oxide and salts..... lb.                       | 154,500         | 154,000     | 318,500     | 293,291     |
|                                       | \$                                                    | 290,025         | 180,455     | 314,575     | 262,185     |
|                                       | Totals, Chemicals, Inorganic, n.o.p. <sup>1</sup> \$  | 292,128         | 188,404     | 330,492     | 316,609     |
|                                       | Totals, Chemicals and Allied Products <sup>1</sup> \$ | 2,714,386       | 3,130,795   | 2,893,574   | 3,130,678   |
| IX. Miscellaneous Commodities.        |                                                       |                 |             |             |             |
| 21                                    | Amusement and sporting goods..... \$                  | 37,176          | 34,147      | 105,729     | 11,373      |
| 22                                    | Brushes..... \$                                       | 11,739          | 16,675      | 63,811      | 13,594      |
| 23                                    | Containers..... \$                                    | 12,818          | 7,320       | 8,951       | 7,817       |
| 24                                    | Household and personal equipment..... \$              | 558,865         | 417,217     | 396,848     | 329,993     |
| 25                                    | Musical instruments..... \$                           | 13,438          | 6,813       | 6,495       | 11,045      |
| 26                                    | Films..... \$                                         | 2,006,254       | 2,070,656   | 2,159,214   | 1,048,693   |
| 27                                    | Ships and vessels..... \$                             | 2,643           | 5,442       | 437         | 1,211       |
| 28                                    | Works of art, paintings..... \$                       | 21,757          | 25,940      | 21,702      | 10,953      |
| 29                                    | Contractors' outfits..... \$                          | —               | —           | —           | —           |
| 30                                    | Electrical energy..... M k.w.h.                       | —               | —           | —           | —           |
|                                       | \$                                                    | —               | —           | —           | —           |
| 31                                    | Ice..... \$                                           | —               | —           | —           | —           |
| 32                                    | Settlers' effects..... \$                             | 363,654         | 424,417     | 420,497     | 438,842     |
|                                       | Totals, Miscellaneous Commodities <sup>1</sup> \$     | 3,077,474       | 3,079,234   | 3,254,169   | 1,943,355   |
|                                       | Totals, Exports, Canadian Produce <sup>1</sup> \$     | 219,246,499     | 174,043,725 | 184,361,019 | 227,601,411 |

<sup>1</sup> Totals include other items not specified.

Kingdom, United States and All Countries, fiscal years 1931-34—concluded.

| United States. |             |             |             | All Countries. |             |             |             | No. |
|----------------|-------------|-------------|-------------|----------------|-------------|-------------|-------------|-----|
| 1931.          | 1932.       | 1933.       | 1934.       | 1931.          | 1932.       | 1933.       | 1934.       |     |
| 12,445,991     | 8,238,592   | 5,348,352   | 9,878,932   | 21,790,367     | 11,452,470  | 5,859,750   | 9,944,154   | 1   |
| 487,622        | 282,728     | 139,714     | 368,349     | 962,768        | 462,009     | 178,127     | 374,938     | 2   |
| 6,801          | 21,134      | 29,908      | 45          | 961,262        | 502,532     | 1,192,718   | 629,803     | 3   |
| 995            | 2,610       | 2,037       | 10          | 93,824         | 54,303      | 171,737     | 117,949     | 4   |
| 2,535,309      | 1,694,610   | 1,222,768   | 1,356,790   | 6,429,080      | 5,349,030   | 4,723,038   | 3,646,917   | 5   |
| 405,109        | 267,206     | 164,811     | 195,554     | 1,063,811      | 853,800     | 656,462     | 592,800     | 6   |
| 987,405        | 734,296     | 506,691     | 1,033,726   | 2,312,034      | 1,620,904   | 1,326,374   | 1,734,940   | 7   |
| 1,022,291      | 605,345     | 184,257     | 784,787     | 1,047,807      | 638,556     | 241,444     | 866,997     | 8   |
| 2,475,674      | 1,394,218   | 541,856     | 2,239,034   | 2,577,730      | 1,504,870   | 967,040     | 2,821,805   | 9   |
| 6,808          | 1,948       | 665         | 2,634       | 662,852        | 335,663     | 182,722     | 193,669     | 10  |
| 704,939        | 597,474     | 316,805     | 308,656     | 203,811        | 104,757     | 37,885      | 49,408      | 11  |
| 848,778        | 736,539     | 389,074     | 367,998     | 704,939        | 597,474     | 316,805     | 308,656     | 12  |
| 397,252        | 270,641     | 153,198     | 239,229     | 848,778        | 736,539     | 389,074     | 367,998     | 13  |
| 399,796        | 269,854     | 149,177     | 223,965     | 420,207        | 273,026     | 153,320     | 243,317     | 14  |
| 11,173         | 11,920      | 495         | 6,056       | 416,059        | 272,007     | 149,344     | 226,101     | 15  |
| 86,965         | 95,473      | 3,330       | 37,492      | 11,223         | 11,945      | 562         | 6,079       | 16  |
| 2,580,594      | 473,370     | 175,509     | 101,254     | 88,365         | 96,053      | 5,010       | 38,127      | 17  |
| 463,756        | 142,792     | 33,629      | 15,402      | 2,580,624      | 473,370     | 175,509     | 101,254     | 18  |
| 141,399        | 137,320     | 127,067     | 187,452     | 463,816        | 142,792     | 33,629      | 15,402      | 19  |
| 76,938         | 67,556      | 61,793      | 91,909      | 157,910        | 159,074     | 156,252     | 223,304     | 20  |
| 13,255,258     | 8,233,323   | 4,937,126   | 9,217,668   | 90,079         | 84,548      | 86,112      | 123,319     | 21  |
|                |             |             |             | 21,107,780     | 13,456,701  | 9,215,837   | 14,808,912  | 22  |
| 182,593        | 164,016     | 167,097     | 363,518     | 288,101        | 357,374     | 291,977     | 509,654     | 23  |
| 961,547        | 789,891     | 951,767     | 2,189,506   | 1,881,156      | 2,112,967   | 1,806,602   | 3,190,794   | 24  |
| 16,772         | 9,097       | 16,013      | 19,692      | 560,485        | 471,086     | 796,953     | 671,733     | 25  |
| 3,496          | 304         | 633         | 1,406       | 238,709        | 53,666      | 62,902      | 96,479      | 26  |
| 88,062         | 98,784      | 196,200     | 470,030     | 182,863        | 218,658     | 914,515     | 1,490,575   | 27  |
| 134,311        | 146,354     | 186,398     | 432,125     | 298,811        | 313,889     | 751,539     | 1,316,451   | 28  |
| 1,956,754      | 925,733     | 1,336,867   | 1,384,896   | 1,987,607      | 935,411     | 1,358,135   | 1,409,244   | 29  |
| 3,039,292      | 1,131,889   | 1,701,426   | 1,469,924   | 3,094,734      | 1,143,693   | 1,726,105   | 1,499,489   | 30  |
| 3,463,289      | 1,752,252   | 2,460,482   | 2,517,188   | 3,698,774      | 1,946,185   | 3,068,879   | 3,474,192   | 31  |
| 43,204         | 50,199      | 37,542      | 23,103      | 400,191        | 336,010     | 377,095     | 436,904     | 32  |
| -              | 349         | -           | 246         | 5,258,217      | 6,243,737   | 6,203,182   | 9,124,180   | 33  |
| -              | 70          | -           | 46          | 612,692        | 564,672     | 494,286     | 629,157     | 34  |
| 22,723         | 32,102      | 13,868      | 8,997       | 22,723         | 32,102      | 13,868      | 8,997       | 35  |
| 83,750         | 117,975     | 51,910      | 32,879      | 83,750         | 117,975     | 51,910      | 32,879      | 36  |
| 435,163        | 487,167     | 316,013     | 440,540     | 680,593        | 760,030     | 584,100     | 745,902     | 37  |
| 1,309,251      | 1,105,845   | 992,378     | 1,439,492   | 2,870,365      | 2,841,609   | 2,698,143   | 3,314,348   | 38  |
| 102,905        | 121,346     | 82,950      | 110,250     | 287,105        | 317,346     | 430,968     | 492,842     | 39  |
| 187,890        | 145,591     | 83,792      | 100,364     | 536,135        | 381,531     | 427,540     | 451,459     | 40  |
| 1,768,773      | 1,380,911   | 1,135,384   | 1,584,630   | 4,302,406      | 3,859,592   | 3,535,528   | 4,273,023   | 41  |
| 6,361,691      | 4,123,489   | 4,668,260   | 6,429,888   | 12,825,852     | 10,535,038  | 11,099,814  | 13,843,829  | 42  |
| 41,485         | 23,890      | 11,785      | 12,998      | 122,569        | 79,843      | 141,545     | 46,004      | 43  |
| 101            | 78          | 441         | 675         | 67,463         | 56,513      | 103,359     | 51,264      | 44  |
| 163,991        | 97,955      | 45,074      | 147,711     | 505,800        | 361,204     | 226,421     | 284,436     | 45  |
| 118,339        | 66,599      | 39,620      | 22,477      | 1,001,055      | 719,744     | 607,577     | 537,349     | 46  |
| 155,201        | 104,556     | 25,994      | 36,682      | 302,257        | 174,950     | 52,579      | 76,501      | 47  |
| 1,348,721      | 992,713     | 632,134     | 755,361     | 4,250,536      | 4,011,672   | 3,500,250   | 2,713,905   | 48  |
| 155,589        | 141,239     | 23,148      | 104,433     | 562,719        | 512,678     | 347,650     | 258,102     | 49  |
| 96,669         | 66,562      | 64,840      | 50,514      | 129,504        | 95,105      | 91,709      | 64,967      | 50  |
| 416,842        | 195,717     | 34,166      | 170,055     | 442,319        | 201,451     | 43,585      | 179,266     | 51  |
| 1,697,763      | 1,041,041   | 647,742     | 1,097,457   | 1,697,814      | 1,041,094   | 647,789     | 1,097,495   | 52  |
| 4,449,711      | 2,706,661   | 1,654,087   | 2,638,444   | 4,453,280      | 2,710,410   | 1,657,555   | 2,641,110   | 53  |
| 112,635        | 108,039     | 93,352      | 92,591      | 112,733        | 108,354     | 93,454      | 92,740      | 54  |
| 4,960,021      | 3,296,497   | 2,445,585   | 2,479,348   | 5,604,055      | 3,970,005   | 3,066,981   | 3,128,615   | 55  |
| 12,359,090     | 7,960,570   | 5,152,526   | 6,612,125   | 18,115,846     | 13,367,251  | 10,243,532  | 10,357,626  | 56  |
| 349,660,563    | 235,186,674 | 143,160,400 | 194,443,139 | 799,742,667    | 576,344,302 | 473,799,955 | 579,343,145 | 57  |

## 13.—Principal Imports into Canada for Consumption from United

| No.                                            | Item.                                      | United Kingdom.     |           |           |           |
|------------------------------------------------|--------------------------------------------|---------------------|-----------|-----------|-----------|
|                                                |                                            | 1931.               | 1932.     | 1933.     | 1934.     |
| <b>I. Agricultural and Vegetable Products.</b> |                                            |                     |           |           |           |
| <b>A. MAINLY FOOD.</b>                         |                                            |                     |           |           |           |
| Fruits—                                        |                                            |                     |           |           |           |
| Fresh—                                         |                                            |                     |           |           |           |
| 1                                              | Apples..... brl.                           | —                   | —         | 281       | —         |
|                                                | \$                                         | —                   | —         | 1,987     | —         |
| 2                                              | Bananas..... stem                          | —                   | —         | —         | —         |
|                                                | \$                                         | —                   | —         | —         | —         |
| 3                                              | Cranberries..... brl.                      | —                   | —         | —         | —         |
|                                                | \$                                         | —                   | —         | —         | —         |
| 4                                              | Grape fruit..... lb.                       | —                   | —         | 6,256     | —         |
|                                                | \$                                         | —                   | —         | 393       | —         |
| 5                                              | Grapes..... lb.                            | 138,040             | 231,547   | 143,328   | 22,628    |
|                                                | \$                                         | 11,762              | 13,949    | 9,015     | 1,631     |
| 6                                              | Lemons..... box                            | 2,872               | 9,227     | 16,488    | 6,507     |
|                                                | \$                                         | 11,042              | 40,014    | 56,244    | 16,325    |
| 7                                              | Melons..... No.                            | —                   | —         | 70        | —         |
|                                                | \$                                         | —                   | —         | 19        | —         |
| 8                                              | Oranges..... cu.ft.                        | 83,437 <sup>3</sup> | 46,137    | 37,201    | 6,651     |
|                                                | \$                                         | 373,700             | 66,984    | 63,790    | 8,916     |
| 9                                              | Peaches..... lb.                           | 4,500               | —         | —         | —         |
|                                                | \$                                         | 356                 | —         | —         | —         |
| 10                                             | Pears..... lb.                             | 11,880              | —         | 4,000     | 6,700     |
|                                                | \$                                         | 1,182               | —         | 293       | 431       |
| 11                                             | Pineapples..... crate                      | —                   | —         | —         | —         |
|                                                | \$                                         | —                   | —         | —         | —         |
| 12                                             | Plums..... lb.                             | —                   | —         | 100       | 400       |
|                                                | \$                                         | —                   | —         | 14        | 53        |
| 13                                             | Strawberries..... lb.                      | —                   | —         | —         | —         |
|                                                | \$                                         | —                   | —         | —         | —         |
|                                                | Totals, Fresh Fruits <sup>1</sup> ..... \$ | 398,765             | 121,139   | 131,755   | 28,686    |
| Dried—                                         |                                            |                     |           |           |           |
| 14                                             | Currants..... lb.                          | 21,606              | 1,368     | 1,246     | 140,228   |
|                                                | \$                                         | 2,290               | 193       | 187       | 11,319    |
| 15                                             | Dates..... lb.                             | 8,460,711           | 8,817,560 | 3,927,838 | 5,333,806 |
|                                                | \$                                         | 314,067             | 255,046   | 99,080    | 137,885   |
| 16                                             | Figs..... lb.                              | 70,155              | 8,023     | 161,510   | 79,178    |
|                                                | \$                                         | 3,425               | 344       | 6,272     | 4,517     |
| 17                                             | Peaches..... lb.                           | 38,540              | 91,472    | 15,375    | 44,080    |
|                                                | \$                                         | 3,974               | 4,989     | 1,420     | 3,476     |
| 18                                             | Prunes and plums..... lb.                  | 1,953               | —         | —         | 20        |
|                                                | \$                                         | 123                 | —         | —         | 2         |
| 19                                             | Raisins..... lb.                           | 46,045              | 337,758   | 527,903   | 1,428,788 |
|                                                | \$                                         | 3,277               | 22,875    | 35,823    | 89,297    |
|                                                | Totals, Dried Fruits <sup>1</sup> ..... \$ | 359,821             | 302,087   | 175,469   | 292,651   |
| 20                                             | Pineapple, canned..... lb.                 | 580,222             | 46,566    | 29,057    | 8,756     |
|                                                | \$                                         | 24,030              | 1,867     | 782       | 607       |
| 21                                             | Other fruits, canned..... lb.              | 18,313              | 20,667    | 5,251     | 8,086     |
|                                                | \$                                         | 1,995               | 1,699     | 348       | 605       |
| 22                                             | Jellies and jams..... lb.                  | 965,973             | 558,167   | 444,627   | 320,969   |
|                                                | \$                                         | 106,303             | 62,243    | 48,376    | 34,672    |
| 23                                             | Olives and cherries in brine..... gal.     | —                   | —         | —         | —         |
|                                                | \$                                         | —                   | —         | —         | —         |
| 24                                             | Fruit pulp..... lb.                        | 340,764             | 417,565   | 35,413    | 4,946     |
|                                                | \$                                         | 19,238              | 22,943    | 2,292     | 201       |
| 25                                             | Fruit juices and syrups..... gal.          | 10,175              | 9,822     | 6,460     | 5,044     |
|                                                | \$                                         | 21,993              | 23,516    | 8,505     | 9,493     |
|                                                | Totals, All Fruits <sup>1</sup> ..... \$   | 939,980             | 544,662   | 377,870   | 367,741   |
| Nuts—                                          |                                            |                     |           |           |           |
| 26                                             | Coco-nuts..... No.                         | —                   | —         | —         | —         |
|                                                | \$                                         | —                   | —         | —         | —         |
| 27                                             | Almonds, not shelled..... lb.              | 4,318               | 7,394     | 65,471    | 16,379    |
|                                                | \$                                         | 692                 | 687       | 3,990     | 1,612     |
| 28                                             | Brazil nuts, not shelled..... lb.          | 240,990             | 359,994   | 854,426   | 986,496   |
|                                                | \$                                         | 30,929              | 28,321    | 61,377    | 66,628    |
| 29                                             | Peanuts, green, shelled or not..... lb.    | 38,394              | 7,469     | 14,629    | 36,438    |
|                                                | \$                                         | 1,697               | 245       | 575       | 916       |
| 30                                             | Walnuts, not shelled..... lb.              | 4,214               | 24,482    | 11,305    | 7,042     |
|                                                | \$                                         | 514                 | 2,521     | 987       | 822       |

<sup>1</sup>Totals include other items not specified. in bushels.<sup>2</sup>Quantities in pounds.<sup>3</sup>Quantities in boxes.<sup>4</sup>Quantities



## Kingdom, United States and All Countries, fiscal years 1931-34.

| United States.         |            |            |                        | All Countries.         |            |            |                        | No. |
|------------------------|------------|------------|------------------------|------------------------|------------|------------|------------------------|-----|
| 1931.                  | 1932.      | 1933.      | 1934.                  | 1931.                  | 1932.      | 1933.      | 1934.                  |     |
| 135,024                | 113,689    | 64,742     | 28,271                 | 139,474                | 120,036    | 71,100     | 37,979                 | 1   |
| 589,897                | 495,685    | 239,128    | 125,669                | 627,137                | 537,957    | 278,068    | 161,109                | 2   |
| 768,270                | 614,896    | 339,980    | 429,315                | 3,889,713              | 3,960,197  | 2,967,845  | 2,474,096              | 3   |
| 1,256,787              | 936,182    | 618,264    | 775,526                | 2,475,270              | 2,114,627  | 1,353,125  | 1,522,706              | 4   |
| 21,667                 | 16,766     | 16,223     | 1,887,805 <sup>a</sup> | 21,667                 | 16,871     | 16,652     | 2,031,144 <sup>b</sup> | 5   |
| 192,183                | 124,018    | 126,203    | 117,744                | 192,183                | 124,509    | 127,964    | 122,721                | 6   |
| 26,243,901             | 34,302,697 | 25,601,562 | 28,188,018             | 28,348,217             | 38,110,494 | 28,618,474 | 31,065,691             | 7   |
| 1,085,416              | 950,738    | 836,340    | 755,322                | 1,186,437              | 1,081,236  | 893,642    | 818,903                | 8   |
| 32,366,331             | 17,636,565 | 16,959,420 | 15,636,300             | 32,701,064             | 18,122,292 | 17,300,229 | 15,973,756             | 9   |
| 1,064,127              | 908,860    | 586,681    | 554,278                | 1,095,490              | 946,640    | 608,183    | 570,064                | 10  |
| 259,030                | 268,393    | 178,612    | 149,333                | 389,302                | 387,215    | 345,626    | 359,867                | 11  |
| 1,073,112              | 1,019,439  | 797,863    | 603,029                | 1,533,406              | 1,419,260  | 1,289,106  | 1,152,765              | 12  |
| 7,374,310              | 7,728,733  | 4,548,026  | —                      | 7,645,862              | 7,732,134  | 4,867,219  | —                      | 13  |
| 577,147                | 467,704    | 279,575    | 254,114                | 577,458                | 468,289    | 287,644    | 255,057                | 14  |
| 2,080,218 <sup>a</sup> | 4,468,740  | 3,592,047  | 3,654,768              | 2,406,433 <sup>a</sup> | 5,018,622  | 4,124,934  | 4,149,783              | 15  |
| 8,281,741              | 5,709,149  | 4,487,868  | 4,137,452              | 9,492,922              | 6,459,707  | 5,095,381  | 4,733,848              | 16  |
| 11,836,325             | 11,335,847 | 3,613,392  | 2,568,548              | 11,894,287             | 10,340,187 | 3,613,392  | 2,568,548              | 17  |
| 683,203                | 334,957    | 138,245    | 106,462                | 686,673                | 335,340    | 138,245    | 106,462                | 18  |
| 23,333,224             | 12,783,639 | 9,967,099  | 7,481,599              | 23,422,654             | 12,839,442 | 10,078,764 | 8,178,041              | 19  |
| 1,035,349              | 463,994    | 293,553    | 262,197                | 1,039,198              | 468,336    | 297,979    | 284,436                | 20  |
| 196,157                | 182,504    | 150,918    | 113,020                | 214,416                | 209,640    | 168,199    | 133,865                | 21  |
| 581,091                | 415,185    | 259,138    | 229,076                | 644,062                | 453,742    | 282,948    | 257,064                | 22  |
| 309,889 <sup>a</sup>   | 6,900,714  | 4,809,617  | 3,558,032              | 310,198 <sup>a</sup>   | 6,919,030  | 4,809,717  | 3,555,432              | 23  |
| 557,007                | 239,512    | 164,345    | 129,465                | 557,526                | 241,129    | 164,359    | 129,518                | 24  |
| 3,712,179              | 4,720,813  | 4,380,786  | 5,204,951              | 3,712,179              | 4,725,570  | 4,380,786  | 5,204,951              | 25  |
| 589,791                | 586,431    | 393,164    | 375,360                | 589,791                | 586,834    | 393,164    | 375,360                | 26  |
| 17,872,315             | 12,805,589 | 9,311,139  | 8,493,824              | 21,021,129             | 15,405,008 | 11,306,598 | 10,576,033             | 27  |
| 28,352                 | 1,796      | —          | —                      | 4,653,223              | 5,505,404  | 5,546,566  | 3,480,586              | 28  |
| 1,579                  | 173        | —          | —                      | 449,254                | 495,900    | 440,639    | 300,216                | 29  |
| 2,138,332              | 1,143,291  | 364,228    | 715,368                | 11,902,113             | 14,095,699 | 12,140,945 | 13,690,680             | 30  |
| 130,875                | 64,740     | 10,368     | 40,313                 | 503,135                | 450,733    | 311,353    | 409,559                | 31  |
| 930,470                | 1,017,229  | 1,011,170  | 1,056,846              | 2,905,568              | 3,815,781  | 4,349,074  | 4,802,221              | 32  |
| 63,501                 | 60,288     | 55,571     | 49,634                 | 191,703                | 209,478    | 190,269    | 199,684                | 33  |
| 1,187,325              | 1,102,518  | 1,343,347  | 1,623,126              | 1,253,335              | 1,367,460  | 1,384,087  | 1,160,676              | 34  |
| 101,577                | 79,148     | 81,605     | 109,263                | 108,124                | 100,736    | 85,387     | 113,932                | 35  |
| 16,656,477             | 16,020,566 | 15,489,047 | 16,531,952             | 16,670,146             | 16,034,658 | 15,489,187 | 16,771,803             | 36  |
| 906,786                | 716,829    | 588,309    | 913,644                | 908,385                | 717,625    | 588,327    | 930,958                | 37  |
| 25,145,909             | 16,339,772 | 10,131,920 | 10,566,647             | 36,719,363             | 33,964,927 | 38,462,151 | 27,565,007             | 38  |
| 1,196,788              | 998,930    | 537,767    | 452,330                | 2,357,648              | 2,709,296  | 3,042,719  | 2,094,056              | 39  |
| 2,591,559              | 2,101,980  | 1,469,961  | 1,757,233              | 4,780,108              | 4,930,373  | 4,913,221  | 4,325,923              | 40  |
| 3,743,247              | 847,818    | 97,648     | 83,886                 | 24,159,734             | 16,676,579 | 11,666,090 | 14,720,631             | 41  |
| 374,434                | 74,640     | 10,247     | 8,452                  | 1,275,407              | 647,893    | 455,427    | 451,609                | 42  |
| 9,951,411              | 2,775,887  | 626,691    | 718,876                | 14,673,239             | 9,554,374  | 1,968,569  | 2,988,187              | 43  |
| 871,540                | 234,066    | 52,524     | 51,462                 | 1,251,255              | 660,168    | 126,613    | 190,069                | 44  |
| 150,329                | 53,452     | 50,450     | 48,721                 | 1,218,337              | 629,545    | 504,203    | 375,127                | 45  |
| 25,901                 | 10,087     | 6,530      | 6,789                  | 155,429                | 76,790     | 57,150     | 42,806                 | 46  |
| 31,610                 | 33,973     | 16,606     | 36,528                 | 526,998                | 413,253    | 435,421    | 340,282                | 47  |
| 41,887                 | 36,843     | 21,629     | 26,195                 | 374,624                | 298,253    | 246,261    | 233,828                | 48  |
| 257,312                | 413,902    | 159,052    | 245,620                | 1,679,081              | 2,154,554  | 790,253    | 1,675,053              | 49  |
| 28,013                 | 52,884     | 31,943     | 31,069                 | 127,914                | 164,584    | 59,557     | 109,834                | 50  |
| 252,037                | 125,026    | 64,921     | 40,250                 | 323,596                | 179,498    | 104,570    | 82,011                 | 51  |
| 353,764                | 185,595    | 104,087    | 45,867                 | 407,976                | 236,123    | 124,226    | 75,173                 | 52  |
| 22,166,887             | 15,504,556 | 11,010,577 | 10,427,152             | 29,498,549             | 22,476,232 | 17,356,874 | 16,041,568             | 53  |
| 55,972                 | 49,753     | 35,247     | 17,439                 | 7,206,588              | 7,182,303  | 9,469,162  | 11,471,845             | 54  |
| 2,313                  | 2,572      | 1,229      | 677                    | 115,745                | 101,748    | 106,886    | 133,947                | 55  |
| 22,226                 | 1,283      | 18,520     | 4,999                  | 931,556                | 1,017,088  | 916,704    | 940,587                | 56  |
| 4,244                  | 266        | 1,265      | 506                    | 97,900                 | 72,944     | 55,597     | 88,932                 | 57  |
| 455,143                | 701,196    | 153,214    | 156,444                | 1,055,977              | 1,343,299  | 1,278,215  | 1,483,121              | 58  |
| 60,901                 | 66,521     | 13,671     | 10,376                 | 133,727                | 105,738    | 90,830     | 95,628                 | 59  |
| 2,539,163              | 4,090,355  | 4,872,105  | 1,293,742              | 25,323,421             | 28,967,735 | 23,059,259 | 27,499,721             | 60  |
| 181,610                | 243,383    | 161,121    | 53,131                 | 971,216                | 956,161    | 680,030    | 708,662                | 61  |
| 628,684                | 253,143    | 282,888    | 396,811                | 1,388,893              | 1,141,907  | 1,467,944  | 1,289,545              | 62  |
| 109,652                | 53,823     | 50,037     | 61,662                 | 184,355                | 135,959    | 127,881    | 135,286                | 63  |

## 13.—Principal Imports into Canada for Consumption from United

| No.                                                | Item.                                                         | United Kingdom. |           |           |           |
|----------------------------------------------------|---------------------------------------------------------------|-----------------|-----------|-----------|-----------|
|                                                    |                                                               | 1931.           | 1932.     | 1933.     | 1934.     |
| <b>I. Agricultural and Vegetable Products—con.</b> |                                                               |                 |           |           |           |
| A. MAINLY FOOD—continued.                          |                                                               |                 |           |           |           |
| Nuts—concluded.                                    |                                                               |                 |           |           |           |
| 1                                                  | Almonds, shelled..... lb.                                     | 112,139         | 60,654    | 44,421    | 29,307    |
|                                                    | \$                                                            | 41,715          | 19,248    | 12,514    | 7,743     |
| 2                                                  | Walnuts, shelled..... lb.                                     | 12,263          | 29,828    | 3,041     | 1,454     |
|                                                    | \$                                                            | 3,434           | 8,102     | 469       | 292       |
|                                                    | Totals, Nuts <sup>1</sup> ..... \$                            | 153,683         | 104,395   | 91,246    | 89,021    |
| Vegetables—                                        |                                                               |                 |           |           |           |
| 3                                                  | Cabbage..... lb.                                              | —               | —         | 24        | —         |
|                                                    | \$                                                            | —               | —         | 3         | —         |
| 4                                                  | Carrots..... lb.                                              | —               | 735,398   | —         | —         |
|                                                    | \$                                                            | —               | 18,668    | —         | —         |
| 5                                                  | Celery..... lb.                                               | —               | —         | —         | —         |
|                                                    | \$                                                            | —               | —         | —         | —         |
| 6                                                  | Cucumbers..... lb.                                            | —               | —         | —         | —         |
|                                                    | \$                                                            | —               | —         | —         | —         |
| 7                                                  | Lettuce..... lb.                                              | —               | —         | —         | —         |
|                                                    | \$                                                            | —               | —         | —         | —         |
| 8                                                  | Onions..... lb.                                               | —               | 946,473   | 771,001   | 664,758   |
|                                                    | \$                                                            | 26,275          | 20,491    | 18,084    | 13,025    |
| 9                                                  | Potatoes, sweet..... cwt.                                     | —               | —         | —         | —         |
|                                                    | \$                                                            | —               | —         | —         | —         |
| 10                                                 | Potatoes (except sweet)..... cwt.                             | 13              | —         | —         | —         |
|                                                    | \$                                                            | 13              | —         | —         | —         |
| 11                                                 | Spinach, fresh..... lb.                                       | —               | —         | —         | —         |
|                                                    | \$                                                            | —               | —         | —         | —         |
| 12                                                 | Tomatoes, fresh..... lb.                                      | —               | —         | —         | 40,780    |
|                                                    | \$                                                            | —               | —         | —         | 2,316     |
| 13                                                 | Canned vegetables..... lb.                                    | 7,021           | 41,875    | 3,398     | 4,848     |
|                                                    | \$                                                            | 664             | 5,540     | 408       | 392       |
| 14                                                 | Sauces and pickles..... gal.                                  | 126,963         | 123,456   | 66,101    | 66,488    |
|                                                    | \$                                                            | 222,984         | 205,424   | 141,400   | 137,238   |
|                                                    | Totals, Vegetables <sup>1</sup> ..... \$                      | 267,069         | 258,438   | 162,939   | 155,116   |
| Grains and Farinaceous Products—                   |                                                               |                 |           |           |           |
| Grains—                                            |                                                               |                 |           |           |           |
| 15                                                 | Beans..... lb.                                                | 548,597         | 472,303   | 188,649   | 473,055   |
|                                                    | \$                                                            | 36,942          | 26,025    | 8,953     | 17,569    |
| 16                                                 | Corn..... bush.                                               | 127             | 108       | 62        | 125,397   |
|                                                    | \$                                                            | 292             | 327       | 100       | 75,521    |
| 17                                                 | Oats..... bush.                                               | 43              | 15        | 464       | 859       |
|                                                    | \$                                                            | 34              | 26        | 320       | 568       |
| 18                                                 | Peas (except split peas)..... lb.                             | 59,340          | 46,570    | 87,529    | 825,940   |
|                                                    | \$                                                            | 3,069           | 2,410     | 5,347     | 64,608    |
| 19                                                 | Rice..... cwt.                                                | 1,227           | 8,279     | 2,715     | 1,278     |
|                                                    | \$                                                            | 4,388           | 21,576    | 8,025     | 2,866     |
| 20                                                 | Corn meal..... brl.                                           | —               | 276       | 10        | —         |
|                                                    | \$                                                            | —               | 1,151     | 19        | —         |
| 21                                                 | Wheat flour..... brl.                                         | 529             | 118       | 4,812     | 23,807    |
|                                                    | \$                                                            | 4,744           | 754       | 19,932    | 94,435    |
| 22                                                 | Biscuits..... lb.                                             | 1,856,790       | 1,555,076 | 1,342,212 | 1,373,549 |
|                                                    | \$                                                            | 268,283         | 209,268   | 171,901   | 156,424   |
| 23                                                 | Cereal foods, prepared..... \$                                | 17,244          | 13,434    | 12,112    | 9,158     |
| 24                                                 | Macaroni and vermicelli..... lb.                              | 792             | 978       | 1,072     | 240       |
|                                                    | \$                                                            | 84              | 91        | 129       | 18        |
| 25                                                 | Malt..... lb.                                                 | 45,024          | 1,000     | —         | —         |
|                                                    | \$                                                            | 1,957           | 63        | —         | —         |
| 26                                                 | Sago and tapioca..... lb.                                     | 66,288          | 23,938    | 37,823    | 84,848    |
|                                                    | \$                                                            | 2,083           | 689       | 1,692     | 3,214     |
|                                                    | Totals, Grains and Farinaceous Products <sup>1</sup> ..... \$ | 521,693         | 329,916   | 276,427   | 468,487   |
| Oils, Vegetable, for Food—                         |                                                               |                 |           |           |           |
| 27                                                 | Olive oil, n.o.p..... gal.                                    | 5,355           | 4,364     | 1,964     | 651       |
|                                                    | \$                                                            | 4,783           | 5,090     | 2,402     | 784       |
| 28                                                 | Peanut and soya-bean oils, n.o.p..... gal.                    | 118,480         | 76,586    | 81,307    | 65,841    |
|                                                    | \$                                                            | 80,413          | 37,342    | 41,621    | 54,039    |
|                                                    | Totals, Oils, Vegetable, for Food <sup>1</sup> .. \$          | 205,721         | 147,595   | 110,560   | 116,107   |

<sup>1</sup>Totals include other items not specified.

# DETAILED IMPORTS FOR CONSUMPTION

587

Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |            |            |            | All Countries. |            |            |            | No. |
|----------------|------------|------------|------------|----------------|------------|------------|------------|-----|
| 1931.          | 1932.      | 1933.      | 1934.      | 1931.          | 1932.      | 1933.      | 1934.      |     |
| 7,813          | 14,438     | 2,003      | 50,624     | 1,732,343      | 1,726,851  | 1,597,665  | 1,622,188  | 1   |
| 4,361          | 4,597      | 703        | 12,569     | 441,131        | 373,530    | 816,797    | 382,545    | 2   |
| 184,444        | 487,533    | 127,808    | 136,708    | 4,806,662      | 5,377,410  | 4,115,900  | 4,750,516  |     |
| 70,954         | 181,517    | 35,222     | 36,877     | 1,003,151      | 1,202,559  | 593,678    | 723,380    |     |
| 923,111        | 906,100    | 515,222    | 387,842    | 3,998,144      | 3,646,143  | 2,454,729  | 2,713,675  |     |
| —              | 17,406,180 | 9,911,097  | 13,105,472 | —              | 17,645,544 | 10,293,236 | 13,606,212 | 3   |
| 448,734        | 255,648    | 245,182    | 181,571    | 450,101        | 261,309    | 252,969    | 190,335    |     |
| —              | 10,794,095 | 9,767,320  | 10,917,369 | —              | 11,566,648 | 10,600,451 | 12,345,167 | 4   |
| —              | 246,213    | 263,999    | 183,529    | —              | 265,808    | 279,339    | 209,303    |     |
| 645,728        | 14,737,372 | 11,179,161 | 13,798,491 | 662,934        | 15,033,882 | 12,793,122 | 14,271,153 | 5   |
| —              | 479,002    | 288,172    | 305,652    | —              | 487,864    | 329,998    | 319,291    |     |
| —              | 3,690,765  | 1,236,231  | 1,043,936  | —              | 3,700,547  | 1,253,024  | 1,073,167  | 6   |
| —              | 201,255    | 80,264     | 52,176     | —              | 201,870    | 80,684     | 52,923     |     |
| 928,907        | 30,526,831 | 24,242,873 | 28,052,697 | 928,907        | 30,527,076 | 24,247,571 | 28,052,781 | 7   |
| —              | 865,227    | 529,280    | 580,936    | —              | 865,232    | 529,360    | 580,938    |     |
| 207,261        | 8,726,730  | 3,474,099  | 3,239,090  | —              | 17,724,226 | 17,037,738 | 12,199,254 | 8   |
| 50,621         | 206,118    | 89,968     | 88,775     | 435,317        | 393,003    | 365,285    | 228,410    |     |
| 138,997        | 60,524     | 56,372     | 48,636     | 51,246         | 61,613     | 57,029     | 49,724     | 9   |
| 406,480        | 105,833    | 75,827     | 88,546     | 140,277        | 107,809    | 77,156     | 90,643     |     |
| 690,755        | 190,832    | 107,472    | 96,480     | 407,525        | 192,133    | 112,151    | 108,935    | 10  |
| —              | 277,937    | 160,059    | 143,842    | 693,600        | 281,588    | 172,663    | 162,463    |     |
| —              | —          | —          | 5,814,018  | —              | —          | —          | 5,841,035  | 11  |
| —              | —          | —          | 124,760    | —              | —          | —          | 125,399    |     |
| 1,399,813      | 29,534,294 | 7,809,198  | 9,054,635  | —              | 43,300,666 | 30,280,706 | 26,161,389 | 12  |
| 9,800,064      | 1,321,432  | 415,062    | 421,318    | 1,899,838      | 2,006,030  | 1,309,716  | 800,532    |     |
| 865,750        | 2,642,106  | 1,327,507  | 725,989    | 15,290,617     | 5,550,358  | 2,963,820  | 1,986,882  | 13  |
| 253,552        | 252,329    | 148,040    | 63,804     | 1,328,919      | 499,080    | 288,591    | 179,840    |     |
| 265,503        | 129,591    | 98,334     | 70,673     | 582,774        | 441,686    | 324,989    | 291,765    | 14  |
| —              | 126,942    | 89,036     | 53,200     | 601,937        | 420,925    | 303,399    | 261,286    |     |
| 7,248,456      | 5,153,932  | 3,020,218  | 2,843,206  | 8,934,781      | 6,746,722  | 4,696,649  | 3,818,476  |     |
| 1,353,261      | 865,423    | 661,773    | 693,227    | 8,536,577      | 2,199,798  | 1,599,291  | 1,942,915  | 15  |
| 114,015        | 57,896     | 34,993     | 41,103     | 392,471        | 115,564    | 72,559     | 88,001     |     |
| 3,119,139      | 2,294,195  | 3,214,556  | 3,505,984  | 10,055,152     | 9,050,730  | 7,614,684  | 5,669,371  |     |
| 2,632,509      | 1,066,736  | 1,181,811  | 1,886,541  | 7,417,271      | 3,921,253  | 2,910,476  | 2,738,601  |     |
| 1,349,202      | 1,577,465  | 2,326,172  | 33,407     | 1,349,245      | 1,577,480  | 2,326,642  | 34,286     | 17  |
| 597,284        | 393,027    | 489,836    | 9,282      | 597,318        | 393,053    | 490,161    | 9,872      |     |
| 430,620        | 1,237,877  | 557,519    | 1,267,116  | 8,969,040      | 2,427,925  | 1,588,008  | 2,946,411  | 18  |
| 40,782         | 101,327    | 56,477     | 85,343     | 295,626        | 138,699    | 90,462     | 193,452    |     |
| 256,928        | 188,768    | 165,234    | 156,479    | 617,725        | 670,660    | 514,265    | 683,542    | 19  |
| 675,624        | 399,159    | 266,532    | 305,141    | 1,660,395      | 1,414,756  | 989,872    | 1,213,328  |     |
| 35,517         | 28,414     | 26,325     | 22,615     | 35,517         | 28,690     | 26,335     | 22,615     | 20  |
| 159,830        | 93,958     | 62,765     | 68,067     | 159,830        | 95,109     | 62,784     | 68,067     |     |
| 35,636         | 13,768     | 4,488      | 3,132      | 36,832         | 21,967     | 19,406     | 51,501     | 21  |
| 249,102        | 88,718     | 22,189     | 26,226     | 256,285        | 113,190    | 70,793     | 194,672    |     |
| 1,133,695      | 690,315    | 315,486    | 333,796    | 3,221,384      | 2,295,688  | 1,784,545  | 1,788,407  | 22  |
| 158,530        | 88,452     | 52,973     | 48,022     | 475,408        | 258,084    | 250,393    | 218,453    |     |
| 235,274        | 166,240    | 108,388    | 97,316     | 255,330        | 182,659    | 122,269    | 111,396    | 23  |
| 2,243,447      | 880,414    | 554,711    | 195,616    | 2,696,020      | 969,829    | 682,553    | 272,584    | 24  |
| 168,191        | 65,060     | 44,541     | 16,508     | 198,246        | 70,828     | 52,932     | 21,217     |     |
| 11,703,885     | 2,338,359  | 346,687    | 1,506      | 12,078,909     | 2,642,884  | 679,835    | 275,571    | 25  |
| 276,885        | 57,708     | 9,330      | 63         | 295,226        | 71,755     | 25,370     | 13,195     |     |
| 537,698        | 318,518    | 377,908    | 341,630    | 3,268,929      | 3,078,724  | 2,860,631  | 3,426,481  | 26  |
| 58,557         | 24,172     | 18,057     | 16,663     | 138,828        | 86,028     | 65,497     | 93,374     |     |
| 6,272,049      | 3,406,723  | 2,854,278  | 3,047,023  | 13,339,358     | 7,585,738  | 5,803,602  | 5,499,468  |     |
| 13,713         | 13,062     | 10,612     | 8,978      | 506,512        | 357,546    | 384,609    | 331,793    | 27  |
| 23,371         | 20,120     | 13,998     | 11,720     | 546,896        | 411,412    | 389,953    | 381,435    |     |
| 9,014          | 23,828     | 58,372     | 2,604      | 197,753        | 189,244    | 174,871    | 178,749    | 28  |
| 5,997          | 9,426      | 19,237     | 2,264      | 129,581        | 89,375     | 84,849     | 86,503     |     |
| 81,040         | 99,654     | 95,566     | 46,450     | 848,802        | 679,150    | 604,433    | 561,691    |     |

## 13.—Principal Imports into Canada for Consumption from United

| No.                                               | Item.                                                                         | United Kingdom. |            |            |            |
|---------------------------------------------------|-------------------------------------------------------------------------------|-----------------|------------|------------|------------|
|                                                   |                                                                               | 1931.           | 1932.      | 1933.      | 1934.      |
| <b>I. Agricultural and Vegetable Product—con.</b> |                                                                               |                 |            |            |            |
| A. MAINLY FOOD—concluded.                         |                                                                               |                 |            |            |            |
| Sugar and Its Products—                           |                                                                               |                 |            |            |            |
| 1                                                 | Molasses, 56 degrees or less, imported under preferential tariff.....         | gal.            | —          | —          | —          |
| 2                                                 | Sugar, not above No. 16, D.S.....                                             | cwt.            | —          | —          | —          |
| 3                                                 | Sugar, above No. 16, D.S.....                                                 | cwt.            | 107        | 4,812      | 15,559     |
| 4                                                 | Confectionery.....                                                            | \$              | 710        | 14,094     | 58,458     |
|                                                   |                                                                               | \$              | 547,531    | 434,339    | 429,183    |
|                                                   | Totals, Sugar and Its Products <sup>1</sup> .....                             | \$              | 584,162    | 479,069    | 507,283    |
| 5                                                 | Cocoa beans, not roasted or ground.....                                       | cwt.            | 21,123     | 16,616     | 8,626      |
| 6                                                 | Cocoa butter.....                                                             | lb.             | 170,922    | 97,864     | 60,496     |
| 7                                                 | Other cocoa.....                                                              | \$              | 80,000     | 47,045     | 26,957     |
| 8                                                 | Coffee, green.....                                                            | \$              | 17,866     | 9,774      | 5,093      |
| 9                                                 | Other coffee and chicory.....                                                 | \$              | 23,135     | 8,009      | 9,380      |
| Spices—                                           |                                                                               |                 |            |            |            |
| 10                                                | Mustard, ground.....                                                          | lb.             | 695,312    | 609,421    | 549,651    |
| 11                                                | Pepper, unground.....                                                         | lb.             | 366,241    | 336,258    | 300,708    |
|                                                   |                                                                               | \$              | 294,966    | 394,730    | 334,367    |
|                                                   |                                                                               | \$              | 51,820     | 43,651     | 35,692     |
|                                                   | Totals, Spices <sup>1</sup> .....                                             | \$              | 454,118    | 422,648    | 365,471    |
| 12                                                | Tea.....                                                                      | lb.             | 21,483,822 | 16,302,582 | 10,368,187 |
| 13                                                | Yeast.....                                                                    | lb.             | 5,890,642  | 3,283,730  | 1,783,856  |
| 14                                                | Hops.....                                                                     | lb.             | 19,620     | 44,367     | 66,009     |
| 15                                                | Liquorice paste.....                                                          | lb.             | 2,735      | 5,989      | 8,681      |
| 16                                                | Malt syrup.....                                                               | lb.             | 549,898    | 128,948    | 159,735    |
|                                                   |                                                                               | \$              | 30,381     | 38,571     | 22,587     |
|                                                   |                                                                               | \$              | 960        | 2,234      | 1,680      |
|                                                   |                                                                               | \$              | 136        | 311        | 317        |
|                                                   |                                                                               | \$              | 671,331    | 502,936    | 543,308    |
|                                                   |                                                                               | \$              | 61,501     | 39,121     | 44,777     |
|                                                   | Totals, Agricultural and Vegetable Products—A. MAINLY FOOD <sup>1</sup> ..... | \$              | 9,901,680  | 6,282,512  | 4,265,628  |
| B. OTHER THAN FOOD.                               |                                                                               |                 |            |            |            |
| Beverages, Alcoholic—                             |                                                                               |                 |            |            |            |
| 17                                                | Brewed (beer, etc.).....                                                      | gal.            | 191,567    | 155,270    | 91,477     |
| 18                                                | Brandy.....                                                                   | pf. gal.        | 393,935    | 318,085    | 191,429    |
| 19                                                | Gin.....                                                                      | pf. gal.        | 2,687      | 483        | 384        |
| 20                                                | Rum.....                                                                      | pf. gal.        | 44,614     | 6,744      | 4,851      |
| 21                                                | Whiskey.....                                                                  | pf. gal.        | 203,959    | 150,594    | 56,794     |
| 22                                                | Non-sparkling wines.....                                                      | \$              | 3,858,130  | 2,891,248  | 1,111,836  |
| 23                                                | Sparkling wines.....                                                          | \$              | 181,116    | 135,916    | 70,682     |
|                                                   |                                                                               | \$              | 3,416,866  | 2,581,361  | 1,353,142  |
|                                                   |                                                                               | \$              | 1,017,800  | 738,926    | 387,764    |
|                                                   |                                                                               | \$              | 21,478,527 | 15,631,090 | 8,242,030  |
|                                                   |                                                                               | \$              | 203,089    | 216,024    | 132,989    |
|                                                   |                                                                               | \$              | 2,655      | 217        | 270        |
|                                                   | Totals, Beverages, Alcoholic <sup>1</sup> .....                               | \$              | 29,515,421 | 21,694,549 | 11,080,107 |
| Gums and Resins—                                  |                                                                               |                 |            |            |            |
| 24                                                | Chicle gum, crude.....                                                        | lb.             | —          | —          | —          |
| 25                                                | Lac, crude.....                                                               | cwt.            | 71         | 385        | 1,834      |
| 26                                                | Resin or rosin.....                                                           | cwt.            | 1,570      | 7,823      | 29,152     |
|                                                   |                                                                               | \$              | 390        | 138        | 468        |
|                                                   |                                                                               | \$              | 3,722      | 687        | 1,236      |
|                                                   | Totals, Gums and Resins <sup>1</sup> .....                                    | \$              | 40,843     | 29,352     | 47,741     |
| 27                                                | Oilcake and meal.....                                                         | cwt.            | 5,089      | 4,739      | 2,794      |
|                                                   |                                                                               | \$              | 9,655      | 7,187      | 4,673      |

<sup>1</sup> Totals include other items not specified.



## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |            |            |            | All Countries. |            |            |            | No. |
|----------------|------------|------------|------------|----------------|------------|------------|------------|-----|
| 1931.          | 1932.      | 1933.      | 1934.      | 1931.          | 1932.      | 1933.      | 1934.      |     |
| -              | -          | -          | -          | 5,193,745      | 4,632,067  | 5,968,636  | 10,717,504 | 1   |
| -              | -          | -          | -          | 1,733,201      | 1,431,406  | 1,411,238  | 1,934,120  | 2   |
| -              | 1          | -          | -          | 8,301,800      | 8,112,132  | 6,227,302  | 4,586,593  | 3   |
| -              | 6          | -          | -          | 19,482,796     | 16,292,441 | 9,991,614  | 7,554,778  | 4   |
| 55,897         | 33,086     | 13,500     | 19,782     | 922,076        | 1,605,457  | 2,604,241  | 2,395,272  |     |
| 241,518        | 141,477    | 58,306     | 88,252     | 2,376,209      | 3,550,562  | 4,239,460  | 4,260,170  |     |
| 201,017        | 109,262    | 41,351     | 43,460     | 960,453        | 705,319    | 592,507    | 563,408    |     |
| 1,001,567      | 562,410    | 257,417    | 309,737    | 25,151,230     | 22,398,080 | 16,484,687 | 14,535,640 |     |
| 21,543         | 19,548     | 15,008     | 19,663     | 163,631        | 147,997    | 173,106    | 236,747    | 5   |
| 234,021        | 154,389    | 93,702     | 111,866    | 1,401,582      | 861,151    | 866,073    | 1,124,667  | 6   |
| 276,965        | 94,357     | 1,064,501  | 1,661,049  | 5,348,300      | 4,394,672  | 2,424,909  | 2,090,834  | 7   |
| 53,636         | 14,062     | 126,648    | 193,498    | 1,061,480      | 654,012    | 299,178    | 241,823    |     |
| 92,704         | 101,914    | 78,532     | 60,913     | 178,449        | 182,188    | 142,710    | 105,684    |     |
| 312,517        | 187,477    | 119,035    | 65,495     | 31,501,596     | 32,436,632 | 32,578,011 | 32,380,812 | 8   |
| 42,561         | 22,472     | 18,373     | 7,636      | 4,365,637      | 3,674,413  | 3,639,797  | 3,186,465  | 9   |
| 467,190        | 470,128    | 414,346    | 317,985    | 492,747        | 515,186    | 446,048    | 332,796    |     |
| 193,583        | 121,272    | 82,777     | 82,627     | 988,895        | 731,023    | 632,428    | 612,402    | 10  |
| 21,241         | 15,507     | 10,424     | 11,140     | 387,482        | 351,801    | 311,132    | 295,373    | 11  |
| 54,991         | 15,192     | 69,151     | 61,715     | 1,789,229      | 1,877,605  | 1,927,347  | 2,337,831  |     |
| 10,885         | 2,299      | 6,067      | 5,011      | 331,603        | 217,861    | 192,841    | 196,872    |     |
| 181,608        | 109,713    | 81,334     | 82,732     | 1,135,662      | 863,079    | 741,297    | 705,091    |     |
| 44,898         | 41,165     | 33,122     | 25,251     | 53,464,341     | 42,765,703 | 38,417,276 | 36,192,227 | 12  |
| 16,412         | 13,190     | 7,004      | 4,359      | 13,048,877     | 7,125,314  | 4,720,435  | 7,389,717  | 13  |
| 2,196,651      | 1,619,286  | 1,415,054  | 1,355,751  | 2,224,233      | 1,680,939  | 1,487,781  | 1,548,230  |     |
| 363,884        | 293,896    | 269,417    | 239,381    | 368,720        | 304,826    | 280,731    | 261,679    | 14  |
| 1,019,731      | 212,504    | 36,699     | 136,651    | 2,746,277      | 1,039,434  | 686,075    | 793,370    |     |
| 201,166        | 48,916     | 7,503      | 48,756     | 408,710        | 197,223    | 122,398    | 335,651    | 15  |
| 1,347,774      | 1,255,661  | 1,205,224  | 1,113,572  | 1,359,991      | 1,283,239  | 1,221,362  | 1,147,051  |     |
| 180,138        | 187,028    | 169,028    | 141,289    | 182,468        | 172,513    | 172,183    | 147,724    | 16  |
| 3,159,127      | 1,924,286  | 615,196    | 233,248    | 3,832,309      | 2,428,651  | 1,159,574  | 492,196    |     |
| 256,226        | 183,539    | 61,277     | 12,240     | 318,490        | 226,212    | 108,910    | 44,325     |     |
| 39,971,929     | 27,343,788 | 19,106,313 | 18,311,958 | 104,963,726    | 78,460,065 | 58,981,608 | 57,096,013 |     |
| 2,536          | 52         | -          | 6          | 230,995        | 195,664    | 106,605    | 93,602     | 17  |
| 1,932          | 103        | -          | 12         | 482,357        | 388,319    | 218,269    | 194,234    | 18  |
| -              | -          | -          | -          | 319,203        | 210,957    | 128,584    | 66,808     |     |
| -              | -          | -          | -          | 2,285,360      | 1,563,396  | 945,343    | 541,854    | 19  |
| -              | -          | -          | -          | 330,006        | 237,507    | 99,578     | 77,683     |     |
| -              | -          | -          | -          | 4,589,582      | 3,425,744  | 1,406,252  | 1,289,775  | 20  |
| 162            | -          | -          | -          | 270,081        | 198,788    | 99,179     | 103,884    |     |
| 379            | -          | -          | -          | 3,888,021      | 2,901,810  | 1,494,432  | 1,595,560  | 21  |
| -              | -          | -          | 1          | 1,022,542      | 742,207    | 388,310    | 458,006    |     |
| -              | -          | -          | 4          | 21,532,651     | 15,673,064 | 8,250,624  | 9,542,682  | 22  |
| 262            | 353        | 291        | 96         | 1,763,207      | 1,445,391  | 1,004,433  | 846,842    |     |
| -              | -          | -          | -          | 526,804        | 298,118    | 184,452    | 116,952    | 23  |
| 2,753          | 545        | 291        | 112        | 35,434,637     | 25,929,880 | 13,634,003 | 14,223,899 |     |
| 897,488        | 645,859    | 642,172    | 553,059    | 1,254,463      | 813,226    | 726,238    | 1,023,095  | 24  |
| 357,543        | 235,535    | 200,126    | 137,638    | 531,056        | 316,918    | 231,693    | 276,227    | 25  |
| 11,663         | 8,475      | 6,422      | 4,128      | 11,794         | 8,909      | 9,238      | 9,063      |     |
| 319,205        | 203,722    | 104,599    | 94,197     | 321,714        | 212,438    | 143,338    | 160,029    | 26  |
| 276,884        | 245,872    | 223,698    | 276,192    | 277,532        | 247,495    | 224,621    | 278,376    |     |
| 761,492        | 540,561    | 438,493    | 665,986    | 767,688        | 544,874    | 441,429    | 671,335    |     |
| 2,000,730      | 1,430,200  | 1,042,068  | 1,246,371  | 2,350,076      | 1,601,635  | 1,194,520  | 1,573,726  |     |
| 111,250        | 104,099    | 67,301     | 107,856    | 156,569        | 134,829    | 88,814     | 131,132    | 27  |
| 182,027        | 100,429    | 56,651     | 127,234    | 249,108        | 138,621    | 90,453     | 161,506    |     |

## 13.—Principal Imports into Canada for Consumption from United

| No.                                                 | Item.                                                                                     | United Kingdom.   |                   |                   |                   |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|
|                                                     |                                                                                           | 1931.             | 1932.             | 1933.             | 1934.             |
| <b>I. Agricultural and Vegetable Products—conc.</b> |                                                                                           |                   |                   |                   |                   |
| <b>B. OTHER THAN FOOD—concluded.</b>                |                                                                                           |                   |                   |                   |                   |
| Oils, Vegetable, not Food—                          |                                                                                           |                   |                   |                   |                   |
| 1                                                   | Castor oil..... gal.                                                                      | 74,652            | 85,371            | 146,933           | 206,572           |
|                                                     | \$                                                                                        | 60,144            | 65,420            | 100,313           | 138,564           |
| 2                                                   | Chinawood..... gal.                                                                       | 5                 | 8                 | —                 | —                 |
|                                                     | \$                                                                                        | 115               | 203               | —                 | —                 |
| 3                                                   | Coconut, palm, etc., for mfr. of soap..... gal.                                           | 143,346           | 97,763            | 233,166           | 412,327           |
|                                                     | \$                                                                                        | 77,484            | 47,421            | 105,487           | 160,667           |
| 4                                                   | Cottonseed, crude, for refining..... cwt.                                                 | 42,960            | 79,334            | 107,646           | 58,024            |
|                                                     | \$                                                                                        | 208,771           | 385,780           | 519,808           | 245,973           |
| 5                                                   | Essential, eucalyptus, peppermint..... lb.                                                | 101,662           | 70,299            | 77,290            | 88,034            |
|                                                     | \$                                                                                        | 150,277           | 121,186           | 93,008            | 106,939           |
| 6                                                   | Peanut, for refining for food..... cwt.                                                   | 10,084            | 31,258            | 3,597             | 55,302            |
|                                                     | \$                                                                                        | 58,429            | 169,113           | 22,832            | 275,747           |
| 7                                                   | Peanut and soya, for soap, etc..... gal.                                                  | 59,107            | 15,184            | 9,154             | 122,786           |
|                                                     | \$                                                                                        | 41,928            | 7,493             | 3,503             | 64,945            |
|                                                     | Totals, Oils, Vegetable, not Food <sup>1</sup> ..... \$                                   | 680,857           | 891,067           | 890,623           | 1,118,438         |
| 8                                                   | Plants, trees, shrubs and vines..... \$                                                   | 59,722            | 61,325            | 50,410            | 37,805            |
| Rubber—                                             |                                                                                           |                   |                   |                   |                   |
| 9                                                   | Raw (incl. balata)..... lb.                                                               | 21,486            | 5,054             | 1,402,072         | 105,834           |
|                                                     | \$                                                                                        | 9,261             | 4,902             | 49,910            | 16,635            |
| 10                                                  | Recovered..... cwt.                                                                       | —                 | 10                | —                 | —                 |
|                                                     | \$                                                                                        | —                 | 71                | —                 | —                 |
| 11                                                  | Thread..... lb.                                                                           | 26,555            | 81,053            | 54,999            | 68,854            |
|                                                     | \$                                                                                        | 24,984            | 56,454            | 44,853            | 62,289            |
| 12                                                  | Pneumatic-tire casings..... No.                                                           | 1,197             | 206               | 817               | 1,823             |
|                                                     | \$                                                                                        | 13,088            | 2,929             | 8,987             | 20,708            |
| 13                                                  | Golf balls..... doz.                                                                      | 43,936            | 37,997            | 33,001            | 31,736            |
|                                                     | \$                                                                                        | 115,043           | 115,916           | 99,482            | 91,129            |
|                                                     | Totals, Rubber <sup>1</sup> ..... \$                                                      | 531,504           | 482,424           | 441,219           | 447,505           |
| Seeds—                                              |                                                                                           |                   |                   |                   |                   |
| 14                                                  | Flax..... bush.                                                                           | 156               | 230               | 583               | 243               |
|                                                     | \$                                                                                        | 521               | 786               | 1,622             | 784               |
| 15                                                  | Timothy..... lb.                                                                          | 12,320            | —                 | 30,251            | —                 |
|                                                     | \$                                                                                        | 1,897             | —                 | 1,008             | —                 |
|                                                     | Totals, Seeds <sup>1</sup> ..... \$                                                       | 245,146           | 152,426           | 179,408           | 143,685           |
| Tobacco—                                            |                                                                                           |                   |                   |                   |                   |
| 16                                                  | Unmanufactured..... lb.                                                                   | 74,646            | 380               | 1,155             | 4,943             |
|                                                     | \$                                                                                        | 37,282            | 816               | 1,416             | 7,343             |
| 17                                                  | Cut..... lb.                                                                              | 99,263            | 85,634            | 56,277            | 54,703            |
|                                                     | \$                                                                                        | 346,089           | 302,780           | 201,112           | 192,413           |
|                                                     | Totals, Tobacco <sup>1</sup> ..... \$                                                     | 658,165           | 516,593           | 332,939           | 327,805           |
| 18                                                  | Broom corn..... \$                                                                        | —                 | 92                | —                 | —                 |
| 19                                                  | Starch, including corn and potato starch..... lb.                                         | 108,937           | 119,475           | 153,359           | 395,428           |
|                                                     | \$                                                                                        | 7,466             | 9,040             | 10,465            | 20,056            |
| 20                                                  | Turpentine, spirits of..... gal.                                                          | 311               | 140               | 1,619             | 530               |
|                                                     | \$                                                                                        | 321               | 173               | 978               | 464               |
|                                                     | <b>Totals, Agricultural and Vegetable Products—B. OTHER THAN FOOD<sup>1</sup>..... \$</b> | <b>31,859,857</b> | <b>23,937,385</b> | <b>13,122,304</b> | <b>14,804,482</b> |
|                                                     | <b>Totals, Agricultural and Vegetable Products..... \$</b>                                | <b>41,761,537</b> | <b>30,219,897</b> | <b>17,387,932</b> | <b>20,341,396</b> |
| <b>II. Animals and Animal Products.</b>             |                                                                                           |                   |                   |                   |                   |
| Animals, Living—                                    |                                                                                           |                   |                   |                   |                   |
| 21                                                  | For exhibition..... \$                                                                    | 660               | 240               | 640               | —                 |
| 22                                                  | For improvement of stock..... \$                                                          | 211,882           | 71,761            | 39,009            | 37,708            |
|                                                     | Totals, Animals, Living <sup>1</sup> ..... \$                                             | 236,592           | 92,261            | 51,532            | 46,792            |
| 23                                                  | Bone dust and ash, charred bone..... cwt.                                                 | 8,123             | 5,217             | 4,352             | 4,596             |
|                                                     | \$                                                                                        | 20,859            | 9,561             | 11,592            | 8,711             |
| 24                                                  | Bone, ivory and shell products, n.o.p..... \$                                             | 13,606            | 7,861             | 10,262            | 36,087            |
| 25                                                  | Feathers and quills..... \$                                                               | 124,171           | 132,834           | 133,404           | 65,674            |

<sup>1</sup> Totals include other items not specified.

# DETAILED IMPORTS FOR CONSUMPTION

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Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |            |            |            | All Countries. |             |            |            | No. |
|----------------|------------|------------|------------|----------------|-------------|------------|------------|-----|
| 1931.          | 1932.      | 1933.      | 1934.      | 1931.          | 1932.       | 1933.      | 1934.      |     |
| 16,882         | 11,116     | 8,326      | 10,679     | 157,161        | 164,936     | 208,454    | 241,336    | 1   |
| 20,700         | 14,343     | 10,332     | 11,764     | 133,205        | 128,759     | 140,217    | 166,887    | 2   |
| 48,364         | 40,813     | 29,390     | 40,559     | 48,369         | 41,280      | 34,596     | 43,495     | 3   |
| 450,444        | 268,374    | 173,569    | 254,999    | 450,559        | 271,695     | 176,511    | 265,034    | 4   |
| 2,601,095      | 2,620,087  | 2,415,525  | 1,774,613  | 3,080,061      | 3,073,477   | 3,287,870  | 4,007,189  | 5   |
| 1,737,096      | 1,258,288  | 877,717    | 544,430    | 2,015,972      | 1,475,540   | 1,175,359  | 1,182,840  | 6   |
| 129,293        | 306,901    | 299,409    | 107,233    | 174,711        | 386,275     | 407,055    | 165,257    | 7   |
| 804,001        | 1,216,186  | 981,887    | 368,246    | 1,025,235      | 1,602,172   | 1,501,695  | 614,219    |     |
| 284,613        | 266,606    | 282,247    | 363,124    | 572,636        | 511,420     | 527,191    | 587,676    |     |
| 499,022        | 379,212    | 351,683    | 392,116    | 895,356        | 720,359     | 617,869    | 670,450    |     |
| 365,393        | 80,580     | 4,270      | 25,815     | 599,385        | 378,056     | 7,867      | 410,780    |     |
| 2,516,679      | 443,204    | 14,953     | 118,539    | 4,249,550      | 1,818,432   | 37,785     | 1,661,939  |     |
| 524,535        | 120,828    | 117,986    | 2,202      | 902,379        | 848,675     | 322,305    | 570,262    |     |
| 348,562        | 55,513     | 34,236     | 776        | 596,343        | 331,335     | 126,195    | 268,629    |     |
| 6,898,762      | 4,128,085  | 2,823,288  | 2,102,439  | 10,021,904     | 6,964,867   | 4,228,061  | 5,566,620  |     |
| 349,134        | 247,427    | 145,030    | 116,538    | 1,629,504      | 1,105,567   | 814,509    | 633,141    | 8   |
| 58,892,977     | 54,020,066 | 38,963,462 | 50,548,744 | 59,559,131     | 55,269,390  | 41,093,896 | 51,168,102 | 9   |
| 6,080,821      | 3,482,090  | 1,603,603  | 3,862,843  | 6,781,261      | 3,572,854   | 1,697,288  | 3,929,839  | 10  |
| 133,343        | 91,797     | 42,631     | 56,686     | 133,343        | 91,807      | 42,631     | 56,686     | 11  |
| 661,485        | 426,100    | 169,504    | 223,321    | 661,485        | 426,171     | 169,504    | 223,321    | 12  |
| 257,398        | 171,732    | 44,821     | 43,486     | 294,721        | 761,500     | 116,285    | 115,222    | 13  |
| 217,867        | 149,253    | 35,132     | 29,812     | 250,180        | 210,514     | 93,006     | 95,199     |     |
| 41,394         | 36,618     | 15,641     | 11,171     | 42,613         | 36,853      | 16,486     | 13,028     |     |
| 321,489        | 236,462    | 103,482    | 106,485    | 334,890        | 239,645     | 112,805    | 127,797    |     |
| 1,205          | 1,752      | 1,136      | 194        | 45,141         | 39,749      | 34,138     | 31,930     |     |
| 2,308          | 3,495      | 1,499      | 259        | 117,351        | 119,411     | 100,989    | 91,388     |     |
| 9,797,939      | 5,565,781  | 2,680,396  | 5,046,185  | 10,564,737     | 6,271,708   | 3,308,986  | 5,895,034  |     |
| 1,896          | 818        | 1          | 160        | 525,295        | 383,720     | 418,859    | 229,900    | 14  |
| 6,159          | 954        | 4          | 348        | 1,183,542      | 353,273     | 309,262    | 283,170    | 15  |
| 11,478,574     | 7,198,501  | 5,718,991  | 3,569,285  | 11,523,643     | 7,208,401   | 5,749,242  | 3,569,490  |     |
| 1,012,701      | 450,581    | 248,111    | 199,385    | 1,017,593      | 451,667     | 249,119    | 199,410    |     |
| 1,629,371      | 835,532    | 484,456    | 466,117    | 3,395,757      | 1,643,165   | 1,176,058  | 1,149,847  |     |
| 15,092,356     | 12,216,403 | 9,629,218  | 7,689,377  | 16,580,394     | 13,075,335  | 10,199,212 | 8,129,142  | 16  |
| 4,335,903      | 3,197,283  | 2,530,725  | 1,915,480  | 5,488,949      | 3,861,465   | 2,886,883  | 2,147,001  | 17  |
| 144,661        | 95,210     | 58,150     | 47,946     | 270,661        | 201,450     | 135,029    | 120,961    |     |
| 167,239        | 117,417    | 75,374     | 60,325     | 523,115        | 427,383     | 284,871    | 259,403    |     |
| 4,580,117      | 3,372,720  | 2,636,756  | 1,988,109  | 6,463,747      | 4,631,552   | 3,370,432  | 2,576,802  |     |
| 339,784        | 200,905    | 161,702    | 291,876    | 339,784        | 202,467     | 161,826    | 297,590    | 18  |
| 2,582,334      | 2,581,000  | 1,317,903  | 1,675,639  | 6,961,051      | 5,066,904   | 2,110,518  | 6,063,426  | 19  |
| 139,232        | 112,128    | 61,047     | 72,260     | 230,797        | 165,786     | 84,755     | 183,663    |     |
| 1,134,074      | 999,970    | 851,421    | 975,377    | 1,134,500      | 1,000,222   | 853,042    | 975,922    | 20  |
| 476,932        | 430,939    | 384,816    | 477,153    | 477,722        | 431,610     | 385,796    | 477,750    |     |
| 27,582,383     | 17,220,483 | 11,105,971 | 12,675,831 | 72,633,738     | 50,139,256  | 29,307,358 | 33,732,797 |     |
| 67,554,312     | 44,564,271 | 30,212,284 | 30,987,789 | 177,597,464    | 128,599,321 | 88,288,966 | 90,828,810 |     |
| 1,264,656      | 1,273,519  | 1,178,108  | 700,584    | 1,272,316      | 1,273,759   | 1,179,148  | 704,234    | 21  |
| 298,891        | 113,344    | 53,699     | 82,727     | 525,882        | 195,594     | 95,256     | 120,735    | 22  |
| 1,966,665      | 1,580,564  | 1,360,578  | 938,582    | 2,251,160      | 1,722,489   | 1,439,267  | 1,030,439  |     |
| 34,401         | 36,542     | 26,437     | 20,696     | 44,509         | 49,581      | 42,579     | 25,292     | 23  |
| 88,967         | 97,123     | 71,330     | 40,400     | 118,113        | 133,443     | 118,912    | 49,111     |     |
| 168,908        | 127,566    | 97,406     | 142,917    | 262,447        | 164,149     | 172,082    | 278,930    | 24  |
| 71,558         | 118,214    | 33,733     | 32,604     | 249,630        | 298,179     | 195,244    | 130,480    | 25  |

## 13.—Principal Imports into Canada for Consumption from United

| No.                                        | Item.                                                     | United Kingdom. |           |           |           |
|--------------------------------------------|-----------------------------------------------------------|-----------------|-----------|-----------|-----------|
|                                            |                                                           | 1931.           | 1932.     | 1933.     | 1934.     |
| II. Animals and Animal Products—continued. |                                                           |                 |           |           |           |
| Fishery Products, n.o.p. <sup>2</sup> —    |                                                           |                 |           |           |           |
| 1                                          | Fish, Fresh—                                              |                 |           |           |           |
|                                            | Oysters, shelled..... gal.                                | —               | —         | —         | —         |
|                                            | Totals, Fresh Fish <sup>1</sup> ..... \$                  | 2,245           | 1,277     | 2,108     | 1,353     |
| 2                                          | Dried, Salted, Smoked or Pickled—                         |                 |           |           |           |
|                                            | Cod..... lb.                                              | 400             | —         | 1,000     | —         |
| 3                                          | Herring..... lb.                                          | 1,448,875       | 1,320,122 | 1,387,049 | 1,160,994 |
|                                            | Totals, Dried, Salted, etc. <sup>1</sup> ..... \$         | 104,899         | 96,833    | 96,057    | 67,948    |
|                                            | Totals, Fishery Products, n.o.p. <sup>1, 2</sup> ..... \$ | 121,493         | 101,665   | 96,724    | 69,156    |
| 4                                          | Canned—                                                   |                 |           |           |           |
|                                            | Sardines, 8 oz. or less..... box                          | 130,829         | 206,599   | 307,360   | 146,428   |
|                                            | Totals, Canned <sup>1</sup> ..... \$                      | 7,956           | 10,266    | 13,351    | 6,450     |
|                                            | Totals, Fishery Products, n.o.p. <sup>1, 2</sup> ..... \$ | 105,064         | 59,041    | 48,764    | 35,341    |
|                                            | Totals, Fishery Products, n.o.p. <sup>1, 2</sup> ..... \$ | 235,661         | 168,006   | 153,617   | 112,346   |
| Furs and Fur Skins—                        |                                                           |                 |           |           |           |
| 5                                          | Undressed (including marine)..... \$                      | 366,065         | 239,025   | 310,067   | 336,502   |
| 6                                          | Other unmanufactured..... \$                              | 92,983          | 58,202    | 47,469    | 107,407   |
| 7                                          | Manufactured..... \$                                      | 24,432          | 23,705    | 19,785    | 11,607    |
|                                            | Totals, Furs and Fur Skins..... \$                        | 483,480         | 320,932   | 377,321   | 455,516   |
| 8                                          | Bristles, animal..... lb.                                 | 7,843           | 10,184    | 1,725     | 5,824     |
|                                            | Hair and mfrs. of, n.o.p..... \$                          | 14,396          | 10,806    | 4,562     | 7,129     |
| 9                                          | Hides and Skins—                                          | 9,264           | 9,275     | 4,895     | 4,709     |
| 10                                         | Calf..... cwt.                                            | —               | 2         | 2,272     | 2,580     |
| 11                                         | Cattle..... cwt.                                          | —               | 122       | 27,040    | 19,031    |
| 12                                         | Sheep..... cwt.                                           | 1,687           | 173       | 5,037     | 7,286     |
|                                            | Totals, Hides and Skins <sup>1</sup> ..... cwt.           | 19,962          | 1,868     | 18,241    | 46,807    |
|                                            | Totals, Hides and Skins <sup>1</sup> ..... cwt.           | —               | 207       | 670       | 4,600     |
|                                            | Totals, Hides and Skins <sup>1</sup> ..... cwt.           | —               | 11,363    | 5,075     | 59,761    |
|                                            | Totals, Hides and Skins <sup>1</sup> ..... cwt.           | 1,849           | 477       | 9,437     | 17,768    |
|                                            | Totals, Hides and Skins <sup>1</sup> ..... \$             | 21,979          | 14,223    | 60,394    | 146,609   |
| Leather—                                   |                                                           |                 |           |           |           |
| 13                                         | Unmanufactured..... \$                                    | 668,814         | 530,483   | 603,264   | 882,598   |
| 14                                         | Men's boots and shoes, n.o.p..... pair                    | 229,670         | 113,202   | 93,320    | 92,719    |
| 15                                         | Women's boots and shoes, n.o.p..... pair                  | 592,306         | 334,583   | 222,249   | 203,997   |
| 16                                         | Gloves..... \$                                            | 63,451          | 20,219    | 32,548    | 24,794    |
|                                            | Totals, Leather <sup>1</sup> ..... \$                     | 80,619          | 36,977    | 38,974    | 30,406    |
|                                            | Totals, Leather <sup>1</sup> ..... \$                     | 121,505         | 70,349    | 39,133    | 49,843    |
|                                            | Totals, Leather <sup>1</sup> ..... \$                     | 1,747,599       | 1,169,145 | 1,084,125 | 1,340,664 |
| Meats—                                     |                                                           |                 |           |           |           |
| 17                                         | Fresh meats..... \$                                       | 8,298           | 5,482     | 3,214     | 5,735     |
| 18                                         | Bacon and hams..... lb.                                   | 1,195           | 40        | 15        | —         |
| 19                                         | Canned meats..... lb.                                     | 519             | 12        | 3         | —         |
| 20                                         | Pork, barrelled in brine..... lb.                         | 1,057,094       | 174,612   | 76,958    | 86,205    |
| 21                                         | Soups, all kinds..... \$                                  | 192,590         | 39,156    | 32,343    | 24,101    |
|                                            | Totals, Meats <sup>1</sup> ..... \$                       | 400             | —         | 36,267    | —         |
|                                            | Totals, Meats <sup>1</sup> ..... \$                       | 22              | —         | 1,365     | —         |
|                                            | Totals, Meats <sup>1</sup> ..... \$                       | 1,087           | 10,396    | 2,445     | 8,122     |
|                                            | Totals, Meats <sup>1</sup> ..... \$                       | 325,161         | 167,608   | 119,662   | 127,247   |
| Milk and Its Products—                     |                                                           |                 |           |           |           |
| 22                                         | Butter..... lb.                                           | 291,380         | 546       | 39,952    | 1,858,304 |
| 23                                         | Cheese..... lb.                                           | 75,553          | 134       | 7,425     | 279,701   |
|                                            | Totals, Milk and Its Products <sup>1</sup> ..... \$       | 52,779          | 54,634    | 91,403    | 40,065    |
|                                            | Totals, Milk and Its Products <sup>1</sup> ..... \$       | 20,144          | 18,294    | 27,253    | 13,277    |
|                                            | Totals, Milk and Its Products <sup>1</sup> ..... \$       | 99,797          | 20,986    | 37,821    | 294,582   |

<sup>1</sup>Totals include other items not specified. and ambergris.<sup>2</sup> Not including turtles, shell products, seal skins, fish oils



## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |           |           |           | All Countries. |           |           |           | No. |
|----------------|-----------|-----------|-----------|----------------|-----------|-----------|-----------|-----|
| 1931.          | 1932.     | 1933.     | 1934.     | 1931.          | 1932.     | 1933.     | 1934.     |     |
| 125,985        | 103,118   | 86,020    | 94,954    | 125,985        | 103,118   | 86,020    | 94,954    | 1   |
| 303,724        | 229,667   | 146,666   | 154,353   | 303,724        | 229,667   | 146,666   | 154,353   |     |
| 539,947        | 362,172   | 252,943   | 232,283   | 811,356        | 540,762   | 389,826   | 382,821   |     |
| 17,143         | 9,069     | 2,470     | 8,838     | 7,796,040      | 5,462,303 | 2,810,014 | 891,140   | 2   |
| 1,953          | 894       | 238       | 646       | 282,171        | 153,278   | 70,279    | 29,486    |     |
| 705,853        | 370,078   | 485,981   | 346,044   | 6,396,878      | 5,233,001 | 3,525,274 | 3,215,502 | 3   |
| 45,544         | 21,432    | 25,622    | 16,222    | 300,183        | 190,983   | 151,795   | 126,626   |     |
| 72,733         | 43,233    | 45,295    | 28,347    | 728,161        | 464,460   | 282,987   | 225,286   |     |
| 87,727         | 20,036    | 7,948     | 11,253    | 6,070,765      | 5,293,293 | 3,778,320 | 3,829,504 | 4   |
| 8,835          | 1,855     | 759       | 1,009     | 453,192        | 360,277   | 232,782   | 233,770   |     |
| 266,756        | 176,861   | 136,091   | 165,645   | 1,132,042      | 876,091   | 594,063   | 673,192   |     |
| 973,126        | 647,220   | 485,781   | 463,912   | 2,885,203      | 2,039,609 | 1,385,256 | 1,387,817 |     |
| 5,084,581      | 2,775,334 | 1,740,119 | 3,147,925 | 5,925,411      | 3,255,847 | 2,230,248 | 3,770,095 | 5   |
| 1,737,006      | 957,935   | 409,304   | 523,785   | 2,636,421      | 1,645,055 | 872,509   | 1,207,787 |     |
| 169,881        | 110,298   | 29,389    | 35,787    | 221,448        | 169,106   | 64,475    | 68,559    | 7   |
| 6,991,468      | 3,843,567 | 2,178,812 | 3,707,497 | 8,783,280      | 5,070,008 | 3,167,232 | 5,046,441 |     |
| 202,903        | 178,756   | 154,155   | 132,721   | 276,358        | 197,409   | 166,255   | 139,640   | 8   |
| 241,065        | 156,263   | 122,620   | 135,200   | 315,416        | 176,384   | 135,376   | 143,675   |     |
| 239,411        | 142,262   | 39,453    | 69,907    | 280,847        | 175,358   | 67,984    | 82,132    | 9   |
| 36,217         | 21,433    | 7,393     | 11,668    | 46,599         | 38,998    | 35,740    | 39,128    |     |
| 932,880        | 425,296   | 74,237    | 178,897   | 1,223,285      | 626,350   | 375,457   | 638,279   | 10  |
| 133,436        | 107,456   | 152,397   | 82,429    | 251,699        | 207,374   | 195,383   | 225,793   |     |
| 1,270,522      | 826,958   | 711,510   | 611,534   | 2,731,898      | 1,784,658 | 989,190   | 1,877,728 | 11  |
| 28,533         | 20,025    | 22,142    | 18,128    | 29,299         | 23,423    | 29,929    | 39,382    |     |
| 361,490        | 166,669   | 134,898   | 232,176   | 371,057        | 211,966   | 182,621   | 513,476   | 12  |
| 212,006        | 157,664   | 187,748   | 117,859   | 345,439        | 281,316   | 268,355   | 313,482   |     |
| 2,831,309      | 1,582,401 | 971,125   | 1,126,175 | 4,704,924      | 2,867,945 | 1,608,144 | 3,159,646 |     |
| 3,490,686      | 2,115,121 | 1,144,351 | 1,308,349 | 4,311,261      | 2,868,887 | 1,950,878 | 2,289,195 | 13  |
| 91,507         | 38,665    | 11,643    | 6,438     | 330,243        | 153,005   | 110,149   | 102,028   |     |
| 214,371        | 74,837    | 23,882    | 20,595    | 824,499        | 410,443   | 253,470   | 228,061   | 14  |
| 474,626        | 262,885   | 91,195    | 77,934    | 612,125        | 323,967   | 174,816   | 160,510   |     |
| 1,326,311      | 627,774   | 209,487   | 226,592   | 1,594,831      | 757,985   | 331,093   | 340,427   | 15  |
| 16,206         | 6,155     | 2,908     | 3,342     | 1,425,073      | 1,549,893 | 651,701   | 728,778   |     |
| 5,736,383      | 3,207,616 | 1,597,601 | 1,787,730 | 9,171,686      | 6,198,308 | 3,602,416 | 4,015,475 | 16  |
| 415,905        | 118,214   | 38,414    | 59,193    | 709,105        | 268,220   | 69,674    | 85,157    |     |
| 6,323,422      | 265,036   | 15,616    | 10,169    | 6,333,430      | 265,076   | 15,631    | 10,169    | 17  |
| 926,756        | 64,672    | 4,913     | 2,853     | 929,758        | 64,684    | 4,916     | 2,853     |     |
| 393,158        | 119,185   | 44,672    | 24,910    | 8,292,069      | 6,122,319 | 4,249,339 | 6,127,263 | 18  |
| 87,037         | 25,269    | 7,267     | 4,527     | 1,134,836      | 657,935   | 337,710   | 359,823   |     |
| 7,531,037      | 3,669,422 | 2,318,277 | 4,133,175 | 7,533,637      | 3,669,622 | 2,354,544 | 4,133,175 | 19  |
| 775,589        | 256,890   | 119,596   | 225,575   | 1,775,863      | 256,910   | 120,961   | 225,575   |     |
| 1,472,636      | 172,943   | 3,975     | 5,016     | 1,479,070      | 184,416   | 8,492     | 14,155    | 20  |
| 4,104,059      | 760,555   | 227,543   | 336,967   | 5,584,055      | 1,689,749 | 678,873   | 832,644   |     |
| 26,156         | 19,380    | 7,799     | 6,764     | 16,500,801     | 879,670   | 876,894   | 2,602,744 | 21  |
| 10,658         | 6,393     | 1,893     | 1,709     | 4,786,521      | 268,336   | 138,637   | 413,949   |     |
| 269,207        | 158,766   | 104,991   | 142,631   | 1,685,045      | 1,377,344 | 1,103,391 | 957,478   | 22  |
| 82,528         | 50,965    | 36,610    | 52,357    | 465,666        | 387,258   | 296,725   | 271,879   |     |
| 159,338        | 127,669   | 63,070    | 77,888    | 5,346,092      | 732,870   | 464,081   | 713,583   |     |

## 13.—Principal Imports into Canada for Consumption from United

| No.                                               | Item.                                                                   | United Kingdom.        |           |           |           |
|---------------------------------------------------|-------------------------------------------------------------------------|------------------------|-----------|-----------|-----------|
|                                                   |                                                                         | 1931.                  | 1932.     | 1933.     | 1934.     |
| <b>II. Animals and Animal Products—concluded.</b> |                                                                         |                        |           |           |           |
|                                                   | Oils, Fats, Greases and Waxes—                                          |                        |           |           |           |
| 1                                                 | Cod-liver oil..... gal.                                                 | 3,140                  | 1,370     | 8,285     | 4,116     |
|                                                   | \$                                                                      | 1,890                  | 1,447     | 6,500     | 12,721    |
| 2                                                 | Grease, rough, for mfr. of soaps and oils... cwt.                       | 1,845                  | 2,206     | 324       | 559       |
|                                                   | \$                                                                      | 14,745                 | 14,875    | 1,833     | 1,839     |
| 3                                                 | Lard..... lb.                                                           | 14,888                 | 7,190     | 12,434    | 7,789     |
|                                                   | \$                                                                      | 1,320                  | 594       | 961       | 521       |
|                                                   | Totals, Oils, Fats, etc. <sup>1</sup> ..... \$                          | 34,999                 | 45,302    | 49,776    | 46,609    |
| 4                                                 | Eggs..... \$                                                            | 5,211                  | 3,145     | 1,960     | 1,870     |
| 5                                                 | Gelatine..... lb.                                                       | 480,241                | 570,959   | 552,176   | 719,270   |
|                                                   | \$                                                                      | 108,615                | 115,827   | 116,195   | 179,267   |
| 6                                                 | Glue, powdered or sheet..... lb.                                        | 1,598,310              | 1,383,426 | 836,002   | 1,110,174 |
|                                                   | \$                                                                      | 167,187                | 114,355   | 62,601    | 78,521    |
| 7                                                 | Sausage casings..... \$                                                 | 48,278                 | 139,265   | 52,902    | 84,448    |
|                                                   | Totals, Animals and Animal Products <sup>1</sup> . \$                   | 3,783,222              | 2,614,531 | 2,406,007 | 3,102,972 |
| <b>III. Fibres and Textiles.</b>                  |                                                                         |                        |           |           |           |
| 8                                                 | Cotton—<br>Raw, merely ginned..... lb.                                  | 1,033,506              | 269,472   | 59,698    | 14,604    |
|                                                   | \$                                                                      | 187,704                | 38,797    | 8,773     | 1,781     |
| 9                                                 | Linters, merely ginned..... lb.                                         | 2,000                  | —         | —         | 148,092   |
|                                                   | \$                                                                      | 184                    | —         | —         | 953       |
| 10                                                | Yarns, Thread and Cordage—<br>Roving, yarns and warps, singles..... lb. | 682,512                | 169,256   | 260,742   | 508,956   |
|                                                   | \$                                                                      | 389,942                | 53,150    | 81,162    | 155,141   |
| 11                                                | Yarns, etc., for sewing, packaging, etc... lb.                          | 193,748                | 118,365   | 162,681   | 220,745   |
|                                                   | \$                                                                      | 73,495                 | 47,392    | 65,654    | 80,838    |
| 12                                                | Yarn, No. 40 and finer, mercerized..... lb.                             | 152,712                | 335,293   | 560,342   | 482,893   |
|                                                   | \$                                                                      | 126,095                | 228,879   | 433,857   | 381,371   |
| 13                                                | Yarn in hanks for mfr. of thread..... lb.                               | 424,941                | 435,492   | 422,544   | 506,012   |
|                                                   | \$                                                                      | 319,929                | 265,450   | 259,308   | 276,715   |
| 14                                                | Yarn, singles, for mfr. of thread..... lb.                              | —                      | 701,025   | 868,150   | 1,185,373 |
|                                                   | \$                                                                      | —                      | 314,841   | 375,591   | 499,412   |
| 15                                                | Yarn, for mfr. of mercerized yarn..... lb.                              | —                      | —         | —         | 573,471   |
|                                                   | \$                                                                      | —                      | —         | —         | 357,394   |
|                                                   | Totals, Yarns, Thread, etc. <sup>1</sup> ..... lb.                      | 1,630,147              | 1,822,224 | 2,349,122 | 3,662,376 |
|                                                   | \$                                                                      | 998,251                | 951,466   | 1,268,019 | 1,835,971 |
| 16                                                | Piece Goods—<br>Not bleached..... lb.                                   | 6,534,743 <sup>2</sup> | 913,930   | 763,738   | 2,621,133 |
|                                                   | \$                                                                      | 516,703                | 343,904   | 281,967   | 836,967   |
| 17                                                | Canton flannel, sheetings, etc., not coloured lb.                       | 464,123 <sup>2</sup>   | 154,559   | 172,934   | 212,511   |
|                                                   | \$                                                                      | 78,061                 | 71,718    | 72,749    | 82,995    |
| 18                                                | Bleached or mercerized, not coloured... lb.                             | 5,155,541 <sup>2</sup> | 982,363   | 974,728   | 1,425,239 |
|                                                   | \$                                                                      | 736,663                | 575,332   | 525,754   | 703,349   |
| 19                                                | Printed, n.o.p..... lb.                                                 | 7,049,373 <sup>2</sup> | 1,661,416 | 1,515,851 | 1,806,002 |
|                                                   | \$                                                                      | 1,189,440              | 1,056,684 | 938,881   | 1,077,276 |
| 20                                                | Piece dyed..... lb.                                                     | 7,837,798 <sup>2</sup> | 1,944,670 | 1,998,220 | 2,714,357 |
|                                                   | \$                                                                      | 1,369,811              | 1,161,476 | 1,128,669 | 1,431,181 |
| 21                                                | Yarn dyed..... lb.                                                      | 1,139,358              | 199,289   | 170,314   | 446,390   |
|                                                   | \$                                                                      | 214,239                | 147,235   | 102,637   | 253,461   |
| 22                                                | With cut pile (velveteens and corduroys) lb.                            | 855,070 <sup>2</sup>   | 247,826   | 333,812   | 489,047   |
|                                                   | \$                                                                      | 398,387                | 248,871   | 278,682   | 343,181   |
|                                                   | Totals, Piece Goods <sup>1</sup> ..... \$                               | 4,567,888              | 3,652,728 | 3,372,547 | 4,879,616 |
| 23                                                | Lace and embroidery..... \$                                             | 511,919                | 269,476   | 311,533   | 381,507   |
| 24                                                | Wearing Apparel—<br>Gloves of cotton..... \$                            | 37,251                 | 32,322    | 18,882    | 16,808    |
|                                                   | Totals, Wearing Apparel <sup>1</sup> ..... \$                           | 341,909                | 242,681   | 186,979   | 176,846   |
| 25                                                | Curtains..... \$                                                        | 196,581                | 129,378   | 148,439   | 167,966   |
| 26                                                | Handkerchiefs..... \$                                                   | 562,259                | 357,071   | 355,842   | 330,531   |
| 27                                                | Quilts, etc., not coloured..... \$                                      | 85,509                 | 78,991    | 52,432    | 50,884    |
| 28                                                | Sheets and pillow-cases, not coloured..... \$                           | 308,161                | 236,677   | 168,636   | 138,495   |
| 29                                                | Towels of cotton..... \$                                                | 108,012                | 207,523   | 196,834   | 236,030   |
|                                                   | Totals, Cotton <sup>1</sup> ..... \$                                    | 8,419,654              | 6,391,155 | 6,211,060 | 8,373,034 |

<sup>1</sup> Totals include other items not specified.<sup>2</sup> Quantities in yards in 1931.

## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States.          |            |            |             | All Countries.          |            |            |             | No. |
|-------------------------|------------|------------|-------------|-------------------------|------------|------------|-------------|-----|
| 1931.                   | 1932.      | 1933.      | 1934.       | 1931.                   | 1932.      | 1933.      | 1934.       |     |
| 15,364                  | 18,345     | 18,011     | 20,190      | 218,571                 | 212,296    | 255,083    | 212,175     | 1   |
| 24,650                  | 22,222     | 23,202     | 21,853      | 189,681                 | 142,374    | 136,810    | 153,014     | 2   |
| 219,235                 | 257,400    | 213,722    | 237,121     | 222,462                 | 260,453    | 234,344    | 247,591     | 3   |
| 1,146,778               | 976,197    | 667,958    | 815,741     | 1,169,661               | 995,281    | 732,023    | 849,932     | 4   |
| 928,102                 | 151,558    | 1,209,007  | 2,987,930   | 944,221                 | 158,748    | 1,221,441  | 2,995,719   | 5   |
| 99,941                  | 8,837      | 54,612     | 149,462     | 101,436                 | 9,431      | 55,573     | 149,983     | 6   |
| 1,610,099               | 1,219,374  | 863,832    | 1,106,135   | 1,961,524               | 1,470,864  | 1,121,670  | 1,395,607   | 7   |
| 311,091                 | 60,057     | 18,914     | 17,118      | 733,039                 | 90,363     | 53,742     | 44,027      | 8   |
| 195,201                 | 187,654    | 161,798    | 159,541     | 1,904,880               | 1,680,618  | 2,422,081  | 1,762,187   | 9   |
| 128,086                 | 133,731    | 94,201     | 89,894      | 610,917                 | 448,353    | 382,957    | 458,501     | 10  |
| 323,697                 | 177,220    | 100,414    | 65,450      | 2,835,860               | 2,226,432  | 1,266,617  | 1,260,917   | 11  |
| 43,288                  | 30,333     | 14,749     | 9,391       | 287,928                 | 200,640    | 99,954     | 95,255      | 12  |
| 104,517                 | 100,929    | 119,613    | 170,544     | 1,890,517               | 700,500    | 380,316    | 634,342     | 13  |
| 26,153,450              | 14,184,754 | 8,574,474  | 10,459,740  | 45,995,756              | 24,563,470 | 15,438,634 | 19,841,877  | 14  |
| 96,494,746              | 91,259,880 | 92,384,848 | 128,289,546 | 97,557,586              | 93,035,016 | 94,705,651 | 132,456,924 | 15  |
| 11,889,792              | 7,564,726  | 7,171,361  | 13,746,651  | 12,080,188              | 7,802,044  | 7,448,536  | 14,763,617  | 16  |
| 9,162,655               | 7,867,247  | 6,201,677  | 6,802,928   | 9,164,655               | 7,867,247  | 6,201,677  | 6,996,747   | 17  |
| 340,514                 | 242,725    | 166,947    | 246,631     | 340,698                 | 242,725    | 166,947    | 247,777     | 18  |
| 350,374                 | 189,835    | 73,367     | 56,491      | 1,032,908               | 360,608    | 335,383    | 575,447     | 19  |
| 141,959                 | 53,075     | 22,144     | 32,921      | 531,904                 | 106,906    | 103,765    | 188,062     | 20  |
| 391,720                 | 251,883    | 159,997    | 151,160     | 592,162                 | 373,481    | 327,221    | 377,838     | 21  |
| 199,768                 | 136,376    | 70,390     | 72,094      | 278,431                 | 189,819    | 140,109    | 161,029     | 22  |
| 2,382,314               | 1,644,380  | 1,273,184  | 98,802      | 2,535,160               | 1,979,673  | 1,833,526  | 581,695     | 23  |
| 1,854,248               | 1,158,009  | 858,882    | 77,111      | 1,980,561               | 1,386,888  | 1,292,739  | 458,482     | 24  |
| 167,375                 | 121,565    | 82,543     | 87,140      | 592,316                 | 557,057    | 505,087    | 593,152     | 25  |
| 126,250                 | 80,219     | 50,805     | 57,858      | 446,179                 | 345,669    | 310,113    | 334,573     | 26  |
| -                       | 20,960     | 21,169     | 2,782       | -                       | 721,985    | 889,319    | 1,188,155   | 27  |
| -                       | 16,159     | 14,843     | 1,937       | -                       | 331,000    | 390,434    | 501,349     | 28  |
| -                       | -          | -          | 923,253     | -                       | -          | -          | 1,496,724   | 29  |
| -                       | -          | -          | 440,043     | -                       | -          | -          | 797,437     | 30  |
| 3,490,834               | 2,322,460  | 1,812,558  | 1,379,706   | 5,170,584               | 4,174,815  | 4,179,150  | 5,060,632   | 31  |
| 2,458,938               | 1,497,550  | 1,107,312  | 718,683     | 3,563,625               | 2,514,930  | 2,412,924  | 2,603,065   | 32  |
| 20,276,446 <sup>2</sup> | 4,369,835  | 3,349,947  | 3,128,123   | 26,847,811 <sup>2</sup> | 5,301,595  | 4,125,924  | 5,773,148   | 33  |
| 1,861,676               | 883,037    | 698,314    | 821,102     | 2,402,068               | 1,236,298  | 987,690    | 1,673,368   | 34  |
| 609,827 <sup>2</sup>    | 69,602     | 20,557     | 10,321      | 1,093,541 <sup>2</sup>  | 230,547    | 193,872    | 222,832     | 35  |
| 62,329                  | 38,208     | 10,509     | 7,132       | 141,874                 | 111,571    | 83,432     | 90,127      | 36  |
| 7,773,924 <sup>2</sup>  | 1,029,042  | 596,761    | 442,508     | 13,196,049 <sup>2</sup> | 2,072,255  | 1,600,545  | 1,949,365   | 37  |
| 582,244                 | 425,961    | 277,467    | 243,441     | 1,362,529               | 1,048,849  | 842,411    | 1,100,611   | 38  |
| 12,031,958 <sup>2</sup> | 1,528,454  | 621,114    | 416,128     | 19,636,624 <sup>2</sup> | 3,504,121  | 2,263,729  | 2,332,401   | 39  |
| 1,667,383               | 1,151,635  | 495,330    | 404,833     | 3,015,086               | 2,375,951  | 1,518,459  | 1,576,135   | 40  |
| 7,068,824 <sup>2</sup>  | 1,440,962  | 687,977    | 593,359     | 16,327,497 <sup>2</sup> | 4,670,079  | 3,430,866  | 4,015,833   | 41  |
| 974,976                 | 832,054    | 434,924    | 380,283     | 2,738,749               | 2,522,215  | 1,876,968  | 2,183,944   | 42  |
| 1,905,111 <sup>2</sup>  | 165,090    | 146,818    | 142,106     | 3,879,186 <sup>2</sup>  | 743,108    | 462,285    | 746,031     | 43  |
| 381,641                 | 124,706    | 98,351     | 79,175      | 966,779                 | 444,563    | 273,101    | 415,774     | 44  |
| 379,378 <sup>2</sup>    | 241,174    | 96,007     | 49,559      | 1,419,843 <sup>2</sup>  | 557,381    | 500,810    | 576,055     | 45  |
| 172,139                 | 148,987    | 60,207     | 35,303      | 690,573                 | 450,232    | 381,361    | 405,174     | 46  |
| 5,857,168               | 3,668,611  | 2,100,571  | 1,998,354   | 12,540,822              | 8,301,634  | 6,032,645  | 7,614,333   | 47  |
| 251,304                 | 146,977    | 63,413     | 29,033      | 1,087,373               | 667,348    | 571,358    | 708,839     | 48  |
| 52,912                  | 7,230      | 7,792      | 2,254       | 642,307                 | 604,724    | 486,700    | 574,815     | 49  |
| 1,041,917               | 580,576    | 205,326    | 176,823     | 2,381,589               | 1,571,118  | 1,041,061  | 975,905     | 50  |
| 81,232                  | 73,934     | 28,144     | 3,989       | 418,978                 | 316,867    | 292,721    | 246,285     | 51  |
| 6,464                   | 9,304      | 2,357      | 2,374       | 834,382                 | 565,488    | 568,914    | 477,262     | 52  |
| 11,968                  | 33,191     | 31,561     | 30,019      | 105,793                 | 137,018    | 102,936    | 102,474     | 53  |
| 18,825                  | 7,140      | 3,273      | 5,899       | 335,613                 | 287,939    | 213,668    | 183,216     | 54  |
| 123,694                 | 119,260    | 48,033     | 34,503      | 241,318                 | 345,461    | 255,793    | 273,892     | 55  |
| 23,380,263              | 14,706,363 | 11,387,256 | 17,538,117  | 35,174,433              | 23,942,066 | 19,845,323 | 28,609,485  | 56  |

## 13.—Principal Imports into Canada for Consumption from United

| No.                                 | Item.                                                   | United Kingdom.           |           |           |           |
|-------------------------------------|---------------------------------------------------------|---------------------------|-----------|-----------|-----------|
|                                     |                                                         | 1931.                     | 1932.     | 1933.     | 1934.     |
| III. Fibres and Textiles—continued. |                                                         |                           |           |           |           |
| 1                                   | Flax, Hemp and Jute—                                    |                           |           |           |           |
|                                     | Hemp, dressed or undressed.....cwt.                     | \$ —                      | —         | —         | 350       |
| 2                                   | Other raw flax, etc.....                                | \$ 7,503                  | 5,221     | 8,621     | 4,104     |
| 3                                   | Yarns, etc., for weaving or insulating wire. lb.        | 1,461,528                 | 1,228,230 | 1,042,626 | 2,115,820 |
| 4                                   | Linen thread, for sewing.....lb.                        | 235,952                   | 174,708   | 138,732   | 240,209   |
| 5                                   | Other yarn, thread, etc.....                            | \$ 201,887                | 210,837   | 190,797   | 273,679   |
| 6                                   | Fabrics, in web, except towelling <sup>2</sup> .....lb. | \$ 236,893                | 155,723   | 185,136   | 264,742   |
| 7                                   | Fabrics, flax.....                                      | \$ —                      | —         | 130,949   | 157,839   |
| 8                                   | Fabrics, jute, woven.....yd.                            | \$ 934,002                | 474,996   | 453,787   | 1,332,124 |
| 9                                   | Other fabrics.....                                      | \$ 7,314,761              | 6,077,698 | 4,866,728 | 729,824   |
| 10                                  | Bags.....                                               | \$ 672,936                | 484,528   | 370,652   | 416,720   |
| 11                                  | Handkerchiefs.....                                      | \$ 179,966                | 476,192   | 353,305   | 313,639   |
| 12                                  | Household linen.....                                    | \$ 2,379                  | 20,393    | 7,059     | 1,057     |
|                                     |                                                         | \$ 482,659                | 327,519   | 317,630   | 426,077   |
|                                     |                                                         | \$ 1,002,551              | 712,907   | 722,889   | 878,060   |
|                                     | Totals, Flax, Hemp and Jute <sup>1</sup> .....          | \$ 4,631,011              | 3,301,003 | 2,818,276 | 3,542,066 |
| Silk—                               |                                                         |                           |           |           |           |
| 13                                  | Raw, singles, not degummed.....lb.                      | \$ —                      | —         | —         | —         |
| 14                                  | Yarns and thread.....                                   | \$ 139,694                | 71,749    | 51,384    | 86,288    |
| 15                                  | Fabrics, unfinished.....yd.                             | \$ —                      | —         | —         | —         |
| Piece Goods—                        |                                                         |                           |           |           |           |
| 16                                  | Woven fabrics, n.o.p.....yd.                            | 158,488                   | 53,647    | 21,426    | 18,268    |
| 17                                  | Velvets and plushes.....yd.                             | \$ 131,383                | 53,688    | 23,785    | 24,644    |
| 18                                  | Ribbons.....                                            | \$ 124,702                | 56,734    | 15,614    | 14,656    |
| 19                                  | Fabrics, for neckties.....                              | \$ 108,650                | 53,104    | 16,286    | 16,043    |
|                                     |                                                         | \$ 15,116                 | 9,659     | 5,486     | 4,044     |
|                                     |                                                         | \$ 19,042                 | 21,686    | 28,307    | 15,612    |
|                                     | Totals, Piece Goods <sup>1</sup> .....                  | \$ 274,772                | 138,661   | 75,594    | 73,743    |
| 20                                  | Apparel.....                                            | \$ 230,471                | 124,450   | 83,538    | 84,267    |
|                                     | Totals, Silk <sup>1</sup> .....                         | \$ 786,458                | 383,541   | 237,660   | 278,639   |
| Wool—                               |                                                         |                           |           |           |           |
| 21                                  | Raw, hair of the camel, etc.....lb.                     | 5,491,266                 | 4,883,517 | 4,039,108 | 7,816,531 |
| 22                                  | Worsted tops, n.o.p.....lb.                             | \$ 1,810,386              | 1,375,645 | 922,808   | 1,903,520 |
| 23                                  | Noils.....lb.                                           | \$ 5,815,098              | 5,786,067 | 6,105,381 | 9,143,174 |
| 24                                  | Yarns.....lb.                                           | \$ 2,244,863              | 2,036,430 | 2,175,319 | 4,050,468 |
|                                     |                                                         | \$ 189,673                | 158,208   | 766,070   | 942,606   |
|                                     |                                                         | \$ 57,764                 | 50,686    | 254,048   | 346,114   |
|                                     |                                                         | \$ 5,146,116              | 3,364,883 | 2,901,586 | 4,334,871 |
|                                     |                                                         | \$ 4,282,182              | 2,452,633 | 2,077,335 | 3,212,535 |
| Piece Goods—                        |                                                         |                           |           |           |           |
| 25                                  | Fabrics, to be finished.....lb.                         | 1,518,503 <sup>3</sup>    | 558,413   | 676,050   | 1,114,752 |
| 26                                  | Flannels.....lb.                                        | \$ 546,255                | 559,127   | 636,388   | 1,157,938 |
| 27                                  | Lustres, Italian linings.....lb.                        | \$ 70,713 <sup>3</sup>    | 103,339   | 149,796   | 336,947   |
| 28                                  | Overcoatings.....lb.                                    | \$ 37,591                 | 103,013   | 136,601   | 250,003   |
| 29                                  | Tweeds.....lb.                                          | \$ 328,240 <sup>3</sup>   | 64,764    | 47,161    | 60,764    |
| 30                                  | Worsted, serges, coatings.....lb.                       | \$ 191,181                | 79,578    | 50,566    | 64,600    |
|                                     |                                                         | \$ 665,883 <sup>3</sup>   | 310,856   | 164,324   | 94,074    |
|                                     |                                                         | \$ 829,079                | 255,801   | 146,802   | 85,696    |
|                                     |                                                         | \$ 1,455,070 <sup>3</sup> | 639,470   | 472,759   | 972,272   |
|                                     |                                                         | \$ 1,413,941              | 621,767   | 463,071   | 901,528   |
|                                     |                                                         | \$ 5,383,201 <sup>3</sup> | 3,364,428 | 2,202,564 | 2,055,963 |
|                                     |                                                         | \$ 6,639,043              | 3,870,563 | 2,549,643 | 2,542,081 |
|                                     | Totals, Piece Goods <sup>1</sup> .....                  | \$ 12,065,767             | 6,613,424 | 5,124,228 | 7,238,399 |
| 31                                  | Carpets and rugs.....sq. ft.                            | \$ —                      | 593,475   | 209,674   | 412,615   |
|                                     |                                                         | \$ 712,810                | 288,926   | 90,708    | 155,321   |
| Apparel—                            |                                                         |                           |           |           |           |
| 32                                  | Socks and stockings.....doz. pr.                        | 424,766                   | 179,461   | 99,939    | 87,233    |
| 33                                  | Underwear, knitted.....                                 | \$ 1,752,223              | 735,733   | 391,022   | 340,516   |
| 34                                  | Women's and children's outer garments..                 | \$ 312,599                | 215,834   | 197,595   | 180,509   |
|                                     |                                                         | \$ 176,138                | 84,218    | 68,970    | 92,729    |
|                                     | Totals, Apparel <sup>1</sup> .....                      | \$ 3,202,286              | 1,586,750 | 1,049,784 | 982,733   |

<sup>1</sup>Totals include other items not specified. <sup>2</sup> New classification in 1934. <sup>3</sup> Quantities in yards in 1931.



# DETAILED IMPORTS FOR CONSUMPTION

597

Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States.      |           |           |           | All Countries.         |            |            |            | No. |
|---------------------|-----------|-----------|-----------|------------------------|------------|------------|------------|-----|
| 1931.               | 1932.     | 1933.     | 1934.     | 1931.                  | 1932.      | 1933.      | 1934.      |     |
| 25,402              | 16,247    | 6,621     | 4,304     | 28,423                 | 18,348     | 15,810     | 23,498     | 1   |
| 154,374             | 73,416    | 37,861    | 23,378    | 176,772                | 81,324     | 64,655     | 82,457     | 2   |
| 123,591             | 78,448    | 46,150    | 51,237    | 133,448                | 90,477     | 60,748     | 63,981     | 3   |
| 713,328             | 166,005   | 701       | 7,531     | 2,198,486              | 1,433,444  | 1,052,456  | 2,132,614  | 4   |
| 99,557              | 20,019    | 191       | 1,326     | 339,817                | 200,853    | 140,456    | 243,711    | 5   |
| 10,296              | 4,816     | 1,114     | 1,884     | 197,613                | 224,719    | 193,768    | 276,061    | 6   |
| 13,999              | 4,553     | 1,143     | 2,285     | 217,955                | 232,308    | 187,439    | 267,525    | 7   |
| 20,304              | 14,974    | 8,505     | 5,584     | 280,756                | 192,048    | 150,673    | 184,622    | 8   |
| -                   | -         | -         | 3,435     | -                      | -          | -          | 1,347,703  | 9   |
| -                   | -         | -         | 4,456     | -                      | -          | -          | 743,500    | 10  |
| 19,269              | 9,709     | 2,403     | -         | 1,011,266              | 518,171    | 479,990    | -          | 11  |
| 1,831,654           | 860,679   | 408,631   | 445,609   | 85,048,023             | 70,817,875 | 60,866,988 | 72,331,707 | 12  |
| 92,295              | 45,483    | 17,956    | 23,927    | 4,013,257              | 2,928,288  | 2,113,542  | 3,084,921  | 13  |
| 94,159              | 47,463    | 39,625    | 37,691    | 318,486                | 581,550    | 465,306    | 369,056    | 14  |
| 184,850             | 127,334   | 58,211    | 56,360    | 255,928                | 166,239    | 78,916     | 73,096     | 15  |
| 27,892              | 1,844     | 932       | 872       | 656,440                | 438,782    | 400,842    | 513,210    | 16  |
| 15,874              | 25,817    | 10,106    | 4,947     | 1,100,805              | 1,242,697  | 1,022,780  | 1,030,331  | 17  |
| 1,691,715           | 894,659   | 455,018   | 422,576   | 10,561,171             | 7,671,578  | 5,845,324  | 7,295,514  | 18  |
| 1,354,245           | 2,043,912 | 2,250,277 | 2,411,960 | 1,954,395              | 2,539,133  | 2,572,949  | 2,505,200  | 19  |
| 4,665,973           | 5,224,090 | 4,035,919 | 4,327,621 | 6,695,844              | 6,499,154  | 4,783,327  | 4,534,182  | 20  |
| 189,545             | 144,168   | 62,064    | 74,415    | 337,940                | 242,550    | 122,203    | 181,712    | 21  |
| 879                 | 2,794     | -         | 599       | 2,497,478              | 405,537    | 51,454     | 41,565     | 22  |
| 935                 | 2,083     | -         | 602       | 1,043,164              | 96,872     | 11,471     | 9,060      | 23  |
| 1,798,552           | 852,504   | 283,048   | 251,088   | 8,712,234              | 4,161,640  | 1,123,367  | 864,609    | 24  |
| 1,739,376           | 749,183   | 210,453   | 197,721   | 4,492,284              | 1,851,161  | 478,884    | 385,355    | 25  |
| 53,093              | 18,039    | 13,292    | 21,108    | 825,878                | 925,503    | 596,109    | 698,585    | 26  |
| 102,294             | 26,974    | 16,902    | 27,129    | 854,466                | 796,604    | 550,870    | 664,161    | 27  |
| 102,612             | 82,931    | 34,083    | 21,438    | 343,229                | 261,924    | 104,050    | 61,686     | 28  |
| 239,542             | 155,657   | 117,836   | 144,065   | 1,181,154              | 1,009,724  | 732,884    | 762,640    | 29  |
| 2,229,737           | 1,051,265 | 421,400   | 428,024   | 7,976,050              | 4,060,391  | 1,926,993  | 1,981,104  | 30  |
| 2,154,253           | 1,037,326 | 517,205   | 522,136   | 3,188,580              | 1,749,586  | 854,582    | 778,095    | 31  |
| 9,488,568           | 7,569,868 | 5,065,905 | 5,371,147 | 18,885,963             | 12,903,962 | 7,829,712  | 7,685,217  | 32  |
| 1,943,026           | 1,356,595 | 67,055    | 2,011     | 10,744,883             | 9,624,484  | 8,355,731  | 17,215,256 | 33  |
| 496,927             | 244,252   | 10,712    | 701       | 3,065,691              | 2,262,261  | 1,553,328  | 3,747,155  | 34  |
| 29,786              | 14,218    | 3,745     | -         | 6,413,180              | 7,208,244  | 7,231,491  | 10,719,961 | 35  |
| 12,430              | 7,083     | 1,662     | -         | 2,669,832              | 2,725,529  | 2,602,164  | 4,849,598  | 36  |
| 46,415              | 707       | 979       | -         | 236,088                | 161,156    | 775,588    | 1,211,721  | 37  |
| 7,194               | 471       | 1,223     | -         | 64,958                 | 52,555     | 266,538    | 406,158    | 38  |
| 142,846             | 60,695    | 56,995    | 12,371    | 5,356,805              | 3,536,017  | 3,011,734  | 4,370,779  | 39  |
| 142,447             | 63,590    | 48,013    | 15,021    | 4,495,916              | 2,642,966  | 2,193,754  | 3,273,695  | 40  |
| 700 <sup>a</sup>    | 2         | 129       | -         | 2,471,637 <sup>a</sup> | 848,954    | 846,841    | 1,168,932  | 41  |
| 357                 | 4         | 261       | -         | 879,285                | 860,603    | 785,806    | 1,203,979  | 42  |
| 1,371 <sup>b</sup>  | 379       | 244       | 107       | 99,039 <sup>b</sup>    | 115,654    | 156,315    | 339,165    | 43  |
| 1,519               | 714       | 395       | 359       | 51,202                 | 116,673    | 144,142    | 253,032    | 44  |
| 90 <sup>c</sup>     | 61        | -         | 51        | 329,666 <sup>c</sup>   | 65,250     | 47,214     | 60,815     | 45  |
| 128                 | 93        | -         | 119       | 191,987                | 80,451     | 50,611     | 64,719     | 46  |
| 2,770 <sup>d</sup>  | 521       | 16        | 509       | 1,028,305 <sup>d</sup> | 467,090    | 185,501    | 99,804     | 47  |
| 5,573               | 901       | 20        | 904       | 1,269,103              | 402,048    | 165,428    | 97,038     | 48  |
| 38,207 <sup>e</sup> | 2,877     | 92        | 1,100     | 1,790,512 <sup>e</sup> | 763,782    | 483,728    | 984,215    | 49  |
| 44,129              | 4,842     | 262       | 2,374     | 1,742,921              | 759,160    | 477,079    | 921,627    | 50  |
| 25,895 <sup>f</sup> | 6,577     | 2,142     | 5,976     | 6,472,918 <sup>f</sup> | 4,052,062  | 2,529,948  | 2,118,048  | 51  |
| 54,586              | 20,658    | 5,940     | 16,100    | 7,914,472              | 4,666,859  | 2,895,502  | 2,644,730  | 52  |
| 371,224             | 194,673   | 50,364    | 92,708    | 16,266,776             | 8,882,920  | 5,929,652  | 7,703,269  | 53  |
| -                   | 33,193    | 14,929    | 22,433    | -                      | 1,089,974  | 628,895    | 1,052,020  | 54  |
| 106,073             | 29,890    | 8,376     | 12,171    | 1,765,940              | 617,253    | 286,662    | 481,212    | 55  |
| 6,036               | 774       | 176       | 57        | 440,398                | 183,298    | 102,641    | 88,860     | 56  |
| 19,168              | 4,303     | 969       | 343       | 1,823,653              | 759,510    | 403,778    | 349,705    | 57  |
| 6,687               | 1,379     | 730       | 447       | 343,149                | 234,749    | 210,889    | 195,463    | 58  |
| 225,515             | 119,572   | 69,743    | 71,068    | 454,545                | 240,512    | 172,244    | 191,233    | 59  |
| 421,890             | 213,877   | 104,783   | 103,450   | 3,810,110              | 1,926,233  | 1,238,230  | 1,167,800  | 60  |

## 13.—Principal Imports into Canada for Consumption from United

| No.                                     | Item.                                             | United Kingdom.        |            |            |            |
|-----------------------------------------|---------------------------------------------------|------------------------|------------|------------|------------|
|                                         |                                                   | 1931.                  | 1932.      | 1933.      | 1934.      |
| III. Fibres and Textiles—concluded.     |                                                   |                        |            |            |            |
| Wool—concluded.                         |                                                   |                        |            |            |            |
| 1                                       | Blankets..... lb.                                 | 114,463 <sup>2</sup>   | 285,420    | 159,202    | 160,680    |
|                                         | \$                                                | 591,064                | 149,587    | 78,923     | 74,324     |
| 2                                       | Felt, pressed..... lb.                            | 46,532                 | 13,983     | 10,456     | 5,664      |
|                                         | \$                                                | 17,638                 | 16,508     | 10,805     | 5,099      |
|                                         | Totals, Wool <sup>1</sup> ..... \$                | 25,320,303             | 14,710,046 | 11,855,783 | 18,084,105 |
| Artificial Silk (Rayon)—                |                                                   |                        |            |            |            |
| 3                                       | Rovings, yarns, warps, etc..... lb.               | 312,701                | 229,710    | 106,181    | 365,868    |
|                                         | \$                                                | 274,069                | 240,217    | 83,687     | 314,442    |
| 4                                       | Woven fabrics, except ribbons..... lb.            | 7,839,044 <sup>2</sup> | 1,131,861  | 932,534    | 898,818    |
|                                         | \$                                                | 3,441,024              | 1,664,264  | 1,201,018  | 1,035,267  |
|                                         | Totals, Artificial Silk <sup>1</sup> ..... \$     | 4,016,649              | 2,012,769  | 1,355,141  | 1,411,276  |
| Other Fibres—                           |                                                   |                        |            |            |            |
| 5                                       | Manila..... cwt.                                  | 762                    | —          | —          | —          |
|                                         | \$                                                | 4,751                  | —          | —          | —          |
| 6                                       | Sisal, istle and tampico..... cwt.                | 1,537                  | 131        | 239        | 9,208      |
|                                         | \$                                                | 11,302                 | 2,099      | 3,377      | 36,139     |
| 7                                       | Binder twine..... cwt.                            | 22,600                 | 26,396     | 37,388     | 72,536     |
|                                         | \$                                                | 277,334                | 226,640    | 239,713    | 476,881    |
|                                         | Totals, Other Fibres <sup>1</sup> ..... \$        | 348,240                | 273,591    | 290,085    | 559,829    |
| Coated Textiles—                        |                                                   |                        |            |            |            |
| 8                                       | Cotton fabrics, coated, rubberized, etc.... \$    | 265,847                | 199,962    | 152,312    | 185,968    |
| 9                                       | Oilcloths, all kinds..... lb.                     | 493,572 <sup>2</sup>   | 1,272,170  | 964,373    | 824,351    |
|                                         | \$                                                | 371,802                | 216,654    | 140,413    | 94,810     |
|                                         | Totals, Coated Textiles <sup>1</sup> ..... \$     | 741,465                | 473,793    | 394,873    | 390,781    |
| Mixed Textile Products—                 |                                                   |                        |            |            |            |
| 10                                      | Rags, wastes, etc..... \$                         | 212,696                | 138,915    | 105,623    | 141,672    |
| 11                                      | Fishing lines, nets, ropes, etc..... \$           | 1,064,916              | 566,037    | 635,897    | 809,713    |
| 12                                      | Twine and cordage, n.o.p..... lb.                 | 1,915,016              | 1,236,986  | 1,534,733  | 1,568,729  |
|                                         | \$                                                | 257,204                | 126,382    | 148,251    | 143,481    |
| 13                                      | Embroideries, lace, etc., n.o.p..... \$           | 625,709                | 375,027    | 269,934    | 219,772    |
| 14                                      | Garments, knitted, n.o.p. (incl. underwear). \$   | 898,088                | 659,565    | 524,068    | 463,310    |
| 15                                      | Gloves, knitted or fabric..... \$                 | 332,229                | 220,445    | 112,621    | 100,874    |
| 16                                      | Hat shapes, crowns, etc..... \$                   | 140,155                | 70,803     | 37,848     | 1,219      |
| 17                                      | Hats, felt..... \$                                | 303,876                | 203,247    | 130,284    | 152,895    |
| 18                                      | Hats, caps, etc., n.o.p..... \$                   | 219,047                | 108,013    | 70,685     | 67,379     |
| 19                                      | Braids, etc., for hats..... \$                    | 17,907                 | 9,081      | 884        | 2,292      |
| 20                                      | Surgical dressings, etc..... \$                   | 199,496                | 167,053    | 146,632    | 176,078    |
|                                         | Totals, Mixed Textiles <sup>1</sup> ..... \$      | 5,684,805              | 3,477,832  | 2,812,190  | 2,874,370  |
|                                         | Totals, Fibres and Textiles <sup>1</sup> ..... \$ | 49,207,120             | 30,509,937 | 25,580,195 | 35,123,319 |
| IV. Wood, Wood Products and Paper.      |                                                   |                        |            |            |            |
| Wood, Unmanufactured or Partially Mfd.— |                                                   |                        |            |            |            |
| 21                                      | Logs, poles, posts, ties..... \$                  | —                      | 12         | —          | —          |
| Lumber and Timber—                      |                                                   |                        |            |            |            |
| 22                                      | Chestnut..... M ft.                               | —                      | —          | —          | —          |
|                                         | \$                                                | —                      | —          | —          | —          |
| 23                                      | Gumwood..... M ft.                                | —                      | —          | —          | —          |
|                                         | \$                                                | —                      | —          | —          | —          |
| 24                                      | Oak..... M ft.                                    | 8                      | —          | 2          | —          |
|                                         | \$                                                | 2,770                  | —          | 927        | —          |
| 25                                      | Pitch pine..... M ft.                             | —                      | —          | —          | —          |
|                                         | \$                                                | —                      | —          | —          | —          |
| 26                                      | Yellow poplar..... M ft.                          | —                      | —          | —          | —          |
|                                         | \$                                                | —                      | —          | —          | —          |
| 27                                      | Walnut..... M ft.                                 | —                      | —          | —          | —          |
|                                         | \$                                                | —                      | —          | 44         | —          |
|                                         | Totals, Lumber and Timber <sup>1</sup> ..... \$   | 21,169                 | 3,096      | 6,026      | 1,550      |
| 28                                      | Veneers..... \$                                   | 5,142                  | 6,154      | 3,409      | 3,656      |
|                                         | Totals, Wood, Unmfd., etc. <sup>1</sup> ..... \$  | 28,953                 | 10,701     | 11,650     | 16,026     |

<sup>1</sup> Totals include other items not specified.  
1931. <sup>4</sup>Quantities in sq. yards in 1931.

<sup>2</sup> Quantities in pairs in 1931.

<sup>3</sup> Quantities in yards in

## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States.         |            |            |            | All Countries.          |            |            |            | No. |
|------------------------|------------|------------|------------|-------------------------|------------|------------|------------|-----|
| 1931.                  | 1932.      | 1933.      | 1934.      | 1931.                   | 1932.      | 1933.      | 1934.      |     |
| 38,965 <sup>a</sup>    | 8,908      | 2,808      | 2,214      | 769 <sup>a</sup>        | 296,039    | 162,181    | 163,266    | 1   |
| 122,086                | 6,916      | 2,001      | 2,263      | 729,848                 | 157,913    | 81,011     | 76,916     |     |
| 86,984                 | 13,148     | 5,315      | 5,151      | 357,751                 | 119,794    | 79,892     | 54,825     | 2   |
| 61,474                 | 20,045     | 8,007      | 7,982      | 216,817                 | 106,141    | 61,426     | 31,554     |     |
| 1,904,194              | 847,084    | 266,311    | 259,064    | 33,637,656              | 19,597,697 | 14,314,665 | 21,920,847 |     |
| 64,215                 | 54,120     | 21,448     | 23,712     | 2,569,574               | 1,501,739  | 958,047    | 2,082,202  | 3   |
| 105,435                | 50,099     | 25,809     | 32,680     | 1,760,829               | 927,742    | 540,169    | 1,323,782  |     |
| 3,141,720 <sup>b</sup> | 191,280    | 57,163     | 76,481     | 21,474,671 <sup>c</sup> | 2,482,722  | 1,190,648  | 1,109,677  | 4   |
| 1,269,659              | 387,347    | 108,136    | 161,206    | 8,000,416               | 3,375,691  | 1,573,299  | 1,371,340  |     |
| 1,957,050              | 637,788    | 217,342    | 302,854    | 11,521,404              | 5,045,161  | 2,447,377  | 3,003,250  |     |
| 134,348                | 31,051     | 58,721     | 75,835     | 147,400                 | 48,030     | 73,524     | 126,119    | 5   |
| 801,518                | 152,946    | 230,681    | 268,998    | 877,752                 | 230,034    | 282,544    | 440,248    |     |
| 336,520                | 412,265    | 655,210    | 373,090    | 339,635                 | 421,797    | 679,826    | 573,538    | 6   |
| 2,193,681              | 1,602,403  | 1,797,637  | 1,301,563  | 2,215,795               | 1,646,650  | 1,869,102  | 1,938,887  |     |
| 17,933                 | 1,589      | 56,144     | 14         | 106,109                 | 220,981    | 252,649    | 201,470    | 7   |
| 234,814                | 18,162     | 383,410    | 80         | 1,159,570               | 1,521,773  | 1,445,810  | 1,163,819  |     |
| 3,401,715              | 1,883,041  | 2,479,002  | 1,646,029  | 4,720,188               | 3,654,231  | 3,792,370  | 3,786,972  |     |
| 907,219                | 543,453    | 355,838    | 392,784    | 1,188,159               | 750,946    | 511,468    | 581,174    | 8   |
| 840,930 <sup>d</sup>   | 273,557    | 115,707    | 64,546     | 1,337,367 <sup>e</sup>  | 1,553,102  | 1,109,678  | 890,784    | 9   |
| 279,590                | 63,970     | 29,648     | 17,972     | 652,035                 | 281,284    | 170,425    | 113,365    |     |
| 1,558,373              | 881,588    | 566,098    | 573,906    | 2,323,713               | 1,365,237  | 969,896    | 972,177    |     |
| 1,377,824              | 961,024    | 650,187    | 1,102,721  | 1,945,078               | 1,289,847  | 923,721    | 1,474,559  | 10  |
| 600,586                | 326,627    | 233,002    | 283,141    | 1,738,703               | 968,866    | 916,706    | 1,188,091  | 11  |
| 634,398                | 496,290    | 240,720    | 364,024    | 2,790,376               | 2,115,387  | 1,941,625  | 2,102,921  | 12  |
| 126,532                | 68,094     | 38,121     | 66,597     | 414,202                 | 227,513    | 200,757    | 224,775    |     |
| 125,923                | 59,970     | 35,113     | 31,489     | 1,562,148               | 825,495    | 487,017    | 392,025    | 13  |
| 140,840                | 142,686    | 66,429     | 42,449     | 1,470,648               | 1,238,780  | 812,303    | 591,861    | 14  |
| 26,525                 | 15,585     | 3,821      | 2,280      | 472,499                 | 346,767    | 199,974    | 191,986    | 15  |
| 10,301                 | 6,098      | 2,441      | 500        | 326,939                 | 295,466    | 114,483    | 19,533     | 16  |
| 184,115                | 111,152    | 50,546     | 59,144     | 868,799                 | 589,445    | 296,209    | 307,226    | 17  |
| 554,821                | 319,218    | 141,315    | 157,953    | 1,173,832               | 807,052    | 484,550    | 357,961    | 18  |
| 178,008                | 233,735    | 152,631    | 75,878     | 758,060                 | 564,907    | 321,671    | 213,255    | 19  |
| 283,459                | 227,871    | 134,052    | 55,531     | 492,089                 | 397,345    | 287,411    | 233,371    | 20  |
| 6,420,914              | 4,405,224  | 2,608,188  | 3,013,944  | 16,216,207              | 11,064,667 | 7,140,053  | 7,171,185  |     |
| 48,244,419             | 30,944,027 | 22,479,022 | 28,553,731 | 130,717,022             | 83,879,362 | 61,214,824 | 79,372,470 |     |
| 1,621,547              | 536,226    | 308,020    | 589,288    | 1,622,070               | 553,255    | 308,049    | 589,474    | 21  |
| 4,976                  | 3,390      | 688        | 557        | 4,976                   | 3,390      | 688        | 557        | 22  |
| 248,956                | 180,122    | 33,275     | 24,936     | 248,956                 | 180,122    | 33,275     | 24,936     |     |
| 14,679                 | 9,339      | 3,136      | 2,945      | 14,679                  | 9,344      | 3,136      | 2,945      | 23  |
| 611,835                | 353,691    | 99,700     | 125,346    | 611,835                 | 354,076    | 99,700     | 125,346    |     |
| 25,385                 | 20,202     | 10,192     | 13,538     | 25,435                  | 20,388     | 10,256     | 13,590     | 24  |
| 1,457,227              | 1,044,673  | 483,534    | 657,913    | 1,464,905               | 1,058,479  | 490,225    | 663,199    |     |
| 10,939                 | 4,787      | 2,653      | 2,649      | 10,939                  | 4,787      | 2,653      | 2,649      | 25  |
| 332,131                | 135,061    | 74,278     | 86,806     | 332,131                 | 135,061    | 74,278     | 86,806     |     |
| 6,193                  | 4,013      | 1,218      | 1,020      | 6,193                   | 4,013      | 1,218      | 1,020      | 26  |
| 312,185                | 161,929    | 44,643     | 51,962     | 312,185                 | 161,929    | 44,643     | 51,962     |     |
| 5,612                  | 4,745      | 2,694      | 3,645      | 5,612                   | 4,745      | 2,694      | 3,645      | 27  |
| 610,026                | 357,752    | 193,541    | 255,213    | 610,026                 | 357,752    | 193,585    | 255,213    |     |
| 5,849,266              | 3,489,893  | 1,429,639  | 2,051,059  | 5,931,757               | 3,510,462  | 1,452,222  | 2,071,345  |     |
| 875,242                | 765,422    | 231,597    | 231,484    | 890,384                 | 775,958    | 250,536    | 273,425    | 28  |
| 9,482,480              | 5,610,189  | 2,376,236  | 3,086,108  | 9,808,816               | 5,755,866  | 2,440,516  | 3,172,625  |     |

## 13.—Principal Imports into Canada for Consumption from United

| No.                                            | Item.                                                       | United Kingdom.      |                  |                  |                  |
|------------------------------------------------|-------------------------------------------------------------|----------------------|------------------|------------------|------------------|
|                                                |                                                             | 1931.                | 1932.            | 1933.            | 1934.            |
| <b>IV. Wood, Wood Products and Paper—conc.</b> |                                                             |                      |                  |                  |                  |
| Wood, Manufactured—                            |                                                             |                      |                  |                  |                  |
| 1                                              | Cooperage—                                                  |                      |                  |                  |                  |
|                                                | Staves, of oak..... M                                       | —                    | —                | —                | 1                |
|                                                | \$                                                          | —                    | —                | —                | 122              |
|                                                | Totals, Cooperage <sup>1</sup> ..... \$                     | 242                  | 31               | 80               | 186              |
| Cork Manufactures—                             |                                                             |                      |                  |                  |                  |
| 2                                              | Corks..... lb.                                              | 24,884               | 25,797           | 51,485           | 84,347           |
|                                                | \$                                                          | 13,800               | 13,670           | 27,873           | 35,207           |
|                                                | Totals, Cork Manufactures <sup>1</sup> ..... \$             | 17,655               | 20,900           | 56,236           | 61,864           |
| 3                                              | Turned and carved wood..... \$                              | 13,725               | 41,688           | 5,791            | 5,574            |
| 4                                              | Wood-pulp..... cwt.                                         | —                    | —                | —                | 643              |
|                                                | \$                                                          | 1,319                | 1,100            | —                | 2,961            |
| 5                                              | Doors..... \$                                               | —                    | —                | 397              | —                |
| 6                                              | Fibre, kartavert, and manufactures of..... \$               | 1,000                | 987              | 2,673            | 5,252            |
| 7                                              | Furniture..... \$                                           | 330,156              | 168,505          | 83,874           | 75,504           |
|                                                | Totals, Wood, Manufactured <sup>1</sup> ..... \$            | 559,926              | 305,671          | 253,685          | 215,885          |
|                                                | Totals, Wood and Wood Products <sup>1</sup> .... \$         | 588,879              | 316,372          | 265,335          | 231,911          |
| Paper—                                         |                                                             |                      |                  |                  |                  |
| 8                                              | Paper and pulp boards..... \$                               | 28,697               | 36,727           | 38,022           | 29,782           |
| Printing Papers—                               |                                                             |                      |                  |                  |                  |
| 9                                              | Book paper for magazines..... lb.                           | 24,581               | 25,617           | 127,866          | 93,218           |
|                                                | \$                                                          | 2,569                | 1,572            | 5,660            | 3,711            |
| 10                                             | Book and printing paper, not coated, {                      |                      |                  |                  |                  |
|                                                | n.o.p..... lb.                                              | 2,046,312            | 1,657,499        | 1,949,800        | 2,419,474        |
|                                                | \$                                                          | 171,552              | 136,054          | 142,996          | 139,532          |
| 11                                             | Surface-coated paper..... lb.                               | 181,441              | 57,911           | 207,510          | 136,371          |
|                                                | \$                                                          | 29,604               | 9,804            | 25,153           | 17,369           |
|                                                | Totals, Printing Papers <sup>1</sup> ..... \$               | 255,428              | 185,580          | 204,764          | 177,379          |
| 12                                             | Wrapping and packing paper..... \$                          | 159,624              | 111,766          | 143,431          | 145,505          |
| 13                                             | Writing paper and stationery, n.o.p..... \$                 | 89,493               | 68,727           | 59,884           | 55,724           |
| 14                                             | Envelopes..... M                                            | 7,304                | 5,276            | 5,972            | 5,614            |
|                                                | \$                                                          | 24,640               | 15,933           | 16,249           | 12,217           |
| 15                                             | Wall paper..... lb.                                         | 336,463 <sup>2</sup> | 375,251          | 247,332          | 267,774          |
|                                                | \$                                                          | 74,565               | 48,860           | 32,072           | 40,869           |
| 16                                             | Paper boxes and containers..... \$                          | 29,806               | 15,156           | 20,724           | 22,761           |
| 17                                             | Paper bags and sacks..... \$                                | 97,122               | 80,545           | 61,891           | 57,537           |
| 18                                             | Cigarette paper..... \$                                     | 136,682              | 72,037           | 101,984          | 138,544          |
| 19                                             | Paper matrix for printing..... \$                           | 6,284                | 6,774            | 8,987            | 9,614            |
|                                                | Totals, Paper <sup>1</sup> ..... \$                         | 1,467,176            | 1,180,763        | 1,153,052        | 1,067,682        |
| Books and Printed Matter—                      |                                                             |                      |                  |                  |                  |
| 20                                             | Music, printed..... \$                                      | 49,003               | 41,905           | 37,241           | 32,823           |
| 21                                             | Newspapers and magazines..... \$                            | 40,402               | 77,778           | 124,532          | 198,889          |
| 22                                             | Photographs, chromos, engravings, prints..... \$            | 160,603              | 53,905           | 29,170           | 37,238           |
| 23                                             | Advertising printed matter..... \$                          | 197,190              | 159,187          | 147,992          | 191,538          |
| 24                                             | Bank notes, bonds, cheques, etc..... \$                     | 45,664               | 40,131           | 39,491           | 35,104           |
| 25                                             | Pictorial postcards, greeting cards, etc..... \$            | —                    | 43,694           | 66,855           | 47,775           |
| 26                                             | Labels, tags, tickets, etc..... \$                          | 49,038               | 37,162           | 31,939           | 25,195           |
| 27                                             | Bibles, hymn books, etc..... \$                             | 158,765              | 191,697          | 122,585          | 108,925          |
| 28                                             | Text books..... \$                                          | 525,108              | 559,059          | 443,345          | 388,416          |
|                                                | Totals, Books and Printed Matter <sup>1</sup> .... \$       | 2,485,999            | 2,330,989        | 1,979,843        | 1,944,312        |
|                                                | <b>Totals, Wood, Wood Products and Paper<sup>1</sup> \$</b> | <b>4,542,054</b>     | <b>3,828,124</b> | <b>3,398,230</b> | <b>3,243,905</b> |
| <b>V. Iron and Its Products.</b>               |                                                             |                      |                  |                  |                  |
| 29                                             | Iron ore..... ton                                           | —                    | —                | —                | —                |
|                                                | \$                                                          | —                    | —                | —                | —                |
| Pigs, Ingots, Blooms and Billets—              |                                                             |                      |                  |                  |                  |
| 30                                             | Pig iron..... ton                                           | 3,016                | 4,350            | 3,568            | 2,624            |
|                                                | \$                                                          | 53,661               | 70,083           | 51,430           | 38,276           |
| 31                                             | Ferro-silicon and ferro-manganese..... cwt.                 | 58,001               | 8,375            | 3,118            | 773              |
|                                                | \$                                                          | 162,634              | 14,716           | 9,944            | 17,445           |
|                                                | Totals, Pigs, Ingots, Blooms and Billets <sup>1</sup> \$    | 261,524              | 136,482          | 87,448           | 77,169           |

<sup>1</sup> Totals include other items not specified.<sup>2</sup> Quantities in rolls in 1931.



## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |            |            |            | All Countries. |            |            |            | No. |
|----------------|------------|------------|------------|----------------|------------|------------|------------|-----|
| 1931.          | 1932.      | 1933.      | 1934.      | 1931.          | 1932.      | 1933.      | 1934.      |     |
| 4,355          | 3,130      | 2,628      | 7,711      | 4,355          | 3,130      | 2,628      | 7,712      | 1   |
| 266,476        | 151,551    | 77,642     | 473,678    | 266,476        | 151,551    | 77,642     | 473,800    |     |
| 629,730        | 406,611    | 223,900    | 563,589    | 632,761        | 408,154    | 226,218    | 563,848    |     |
| 84,397         | 67,844     | 40,253     | 14,725     | 355,298        | 317,268    | 265,051    | 229,453    | 2   |
| 97,069         | 83,715     | 34,530     | 16,583     | 269,543        | 218,695    | 145,969    | 113,878    |     |
| 405,942        | 372,650    | 188,511    | 178,255    | 856,644        | 648,530    | 500,072    | 407,285    |     |
| 300,409        | 193,003    | 113,798    | 155,283    | 320,110        | 253,877    | 121,945    | 163,576    | 3   |
| —              | —          | —          | 77,892     | —              | —          | —          | 79,309     | 4   |
| 611,479        | 687,125    | 409,188    | 124,278    | 678,679        | 703,247    | 418,182    | 134,284    | 5   |
| 347,927        | 139,823    | 12,209     | 2,056      | 347,937        | 140,210    | 12,606     | 2,056      |     |
| 270,999        | 197,991    | 140,522    | 122,606    | 274,503        | 200,184    | 147,089    | 130,149    |     |
| 1,896,028      | 698,863    | 235,057    | 272,303    | 2,526,139      | 1,006,876  | 387,914    | 435,482    | 7   |
| 6,470,512      | 3,965,678  | 2,009,027  | 1,994,217  | 8,045,156      | 4,839,775  | 2,717,234  | 2,570,567  | 8   |
| 15,952,992     | 9,575,867  | 4,385,263  | 5,080,325  | 17,853,972     | 10,595,641 | 5,157,750  | 5,743,192  |     |
| 1,432,407      | 1,250,909  | 474,248    | 392,990    | 1,486,851      | 1,305,059  | 518,410    | 431,658    |     |
| 4,696,743      | 50,352     | 133,374    | 2,531,439  | 4,721,324      | 75,969     | 261,240    | 2,624,657  | 9   |
| 238,005        | 2,078      | 6,048      | 99,042     | 240,574        | 3,650      | 11,708     | 102,753    |     |
| 4,523,568      | 4,300,825  | 4,403,699  | 1,739,818  | 6,742,136      | 6,077,447  | 6,437,358  | 2,826,582  |     |
| 411,865        | 298,781    | 229,399    | 102,129    | 596,531        | 443,185    | 377,440    | 247,090    | 10  |
| 1,469,444      | 1,196,840  | 1,214,218  | 665,426    | 2,143,398      | 1,734,881  | 1,918,622  | 1,371,472  |     |
| 363,389        | 305,398    | 292,305    | 117,322    | 433,435        | 358,153    | 361,839    | 184,905    |     |
| 1,197,894      | 718,628    | 633,210    | 407,266    | 1,518,875      | 960,700    | 897,641    | 657,540    | 11  |
| 1,014,885      | 526,524    | 373,476    | 466,701    | 1,497,004      | 825,955    | 665,972    | 741,377    |     |
| 136,806        | 82,717     | 54,562     | 115,908    | 261,806        | 180,267    | 138,488    | 188,390    |     |
| 54,158         | 38,768     | 27,113     | 24,167     | 69,278         | 51,505     | 39,023     | 31,930     | 12  |
| 136,673        | 114,878    | 70,042     | 48,545     | 179,266        | 147,478    | 98,823     | 66,323     |     |
| 2,348,543      | 1,047,410  | 435,006    | 419,468    | 2,758,990      | 1,519,327  | 770,898    | 723,403    |     |
| 250,249        | 95,788     | 53,651     | 50,910     | 344,092        | 157,851    | 98,136     | 98,625     | 13  |
| 968,423        | 649,765    | 454,387    | 284,421    | 1,028,278      | 686,790    | 490,243    | 321,663    |     |
| 250,412        | 179,771    | 41,417     | 43,211     | 349,371        | 260,467    | 103,737    | 101,179    |     |
| 16,773         | 19,983     | 24,051     | 2,591      | 527,299        | 595,874    | 550,863    | 414,161    | 14  |
| 116,376        | 113,634    | 103,439    | 103,269    | 123,210        | 120,994    | 112,843    | 113,425    |     |
| 9,350,363      | 6,403,568  | 4,002,399  | 3,456,692  | 12,082,870     | 8,825,141  | 6,179,897  | 5,242,168  |     |
| 331,455        | 268,381    | 186,486    | 173,572    | 381,383        | 314,410    | 227,830    | 209,969    | 15  |
| 4,171,958      | 3,689,115  | 2,718,670  | 2,498,484  | 4,220,855      | 3,779,540  | 2,855,559  | 2,704,837  |     |
| 1,118,132      | 480,555    | 269,783    | 193,341    | 1,436,476      | 585,387    | 315,664    | 243,636    |     |
| 2,044,226      | 1,217,027  | 804,072    | 649,217    | 2,300,960      | 1,421,352  | 991,103    | 869,556    | 16  |
| 721,348        | 499,952    | 414,201    | 408,494    | 778,266        | 551,996    | 464,110    | 452,968    |     |
| —              | 304,661    | 187,278    | 198,125    | —              | 140,861    | 315,037    | 280,971    |     |
| 223,884        | 144,806    | 91,949     | 67,494     | 288,186        | 194,738    | 133,545    | 104,574    | 17  |
| 161,306        | 150,667    | 139,650    | 122,443    | 463,170        | 480,762    | 361,043    | 329,560    |     |
| 702,187        | 603,534    | 525,248    | 462,469    | 1,331,503      | 1,237,836  | 1,045,065  | 944,508    |     |
| 12,860,742     | 9,619,969  | 6,716,940  | 6,010,010  | 16,136,501     | 12,609,325 | 9,168,487  | 8,372,627  | 18  |
| 38,164,097     | 25,599,404 | 15,104,602 | 14,547,027 | 46,073,343     | 32,039,107 | 20,506,134 | 19,357,987 |     |
| 868,972        | 544,909    | 58,396     | 176,369    | 1,428,970      | 802,163    | 66,514     | 205,811    |     |
| 2,103,470      | 1,213,794  | 143,311    | 344,682    | 3,266,402      | 1,698,983  | 180,911    | 402,034    | 19  |
| 6,463          | 3,309      | 732        | 645        | 10,445         | 8,039      | 4,786      | 3,286      |     |
| 116,337        | 56,862     | 14,244     | 12,732     | 184,214        | 132,510    | 70,729     | 51,242     |     |
| 48,149         | 4,821      | 5,797      | 4,177      | 116,581        | 18,264     | 11,626     | 7,636      | 20  |
| 368,517        | 31,911     | 61,782     | 126,966    | 600,417        | 64,525     | 89,459     | 166,416    |     |
| 804,224        | 357,071    | 130,861    | 298,935    | 1,217,833      | 606,093    | 304,480    | 445,326    |     |

## 13.—Principal Imports into Canada for Consumption from United

| No.                                 | Item.                                                | United Kingdom. |           |           |           |
|-------------------------------------|------------------------------------------------------|-----------------|-----------|-----------|-----------|
|                                     |                                                      | 1931.           | 1932.     | 1933.     | 1934.     |
| V. Iron and Its Products—continued. |                                                      |                 |           |           |           |
| 1                                   | Scrap iron or steel..... ton                         | —               | 70        | —         | 5         |
|                                     | \$                                                   | —               | 163       | —         | 75        |
| Castings and Forgings—              |                                                      |                 |           |           |           |
| 2                                   | Axles, parts and blanks..... \$                      | 10,622          | 11,443    | 7,508     | 7,535     |
| 3                                   | Wheel tires, locomotive and car..... cwt.            | 50,651          | 30,777    | 54,976    | 41,277    |
|                                     | \$                                                   | 244,964         | 147,362   | 256,701   | 194,696   |
|                                     | Totals, Castings and Forgings <sup>1</sup> ..... \$  | 316,286         | 202,903   | 294,021   | 225,185   |
| Rolling-Mill Products—              |                                                      |                 |           |           |           |
| 4                                   | Band and hoop..... \$                                | 218,977         | 65,211    | 85,465    | 178,553   |
| 5                                   | Railway rails..... ton                               | 64              | 21        | 2,280     | 41        |
|                                     | \$                                                   | 2,716           | 817       | 91,420    | 1,480     |
| 6                                   | Other bars and rails..... cwt.                       | 93,685          | 78,090    | 53,900    | 68,078    |
|                                     | \$                                                   | 580,110         | 431,981   | 310,639   | 387,852   |
| Plates and Sheets—                  |                                                      |                 |           |           |           |
| 7                                   | Plates..... cwt.                                     | 315,872         | 514,612   | 203,046   | 110,015   |
|                                     | \$                                                   | 551,436         | 980,286   | 410,372   | 230,046   |
| 8                                   | Sheets, galvanized..... cwt.                         | 251,415         | 171,334   | 242,248   | 70,235    |
|                                     | \$                                                   | 897,328         | 541,398   | 724,026   | 226,367   |
| 9                                   | Sheets for galvanizing..... cwt.                     | 209,838         | 149,716   | 184,211   | 263,705   |
|                                     | \$                                                   | 559,369         | 304,697   | 377,592   | 593,381   |
| 10                                  | Sheets for tinning..... cwt.                         | —               | —         | 33        | 38,910    |
|                                     | \$                                                   | —               | —         | 101       | 117,898   |
| 11                                  | Sheets, other..... cwt.                              | 262,148         | 179,411   | 278,812   | 247,451   |
|                                     | \$                                                   | 755,461         | 456,940   | 745,954   | 649,918   |
| 12                                  | Tin-plate..... cwt.                                  | 723,016         | 806,008   | 782,602   | 1,663,436 |
|                                     | \$                                                   | 3,314,665       | 3,073,057 | 3,106,402 | 7,347,131 |
| 13                                  | Skelp for pipe..... cwt.                             | 142,028         | 46,495    | 49,573    | 16,402    |
|                                     | \$                                                   | 370,652         | 120,360   | 133,734   | 43,602    |
| 14                                  | Rods..... cwt.                                       | 236             | 11,200    | 38,094    | 3,472     |
|                                     | \$                                                   | 547             | 15,208    | 53,466    | 4,951     |
| 15                                  | Structural iron..... \$                              | 441,562         | 345,731   | 259,477   | 217,858   |
|                                     | Totals, Rolling-Mill Products <sup>1</sup> ..... \$  | 7,692,823       | 6,335,686 | 6,298,648 | 9,999,037 |
| Tubes, Pipe and Fittings—           |                                                      |                 |           |           |           |
| 16                                  | Boiler tubes..... \$                                 | 109,151         | 80,745    | 155,773   | 135,741   |
| 17                                  | Cast iron pipe..... ton                              | 4,209           | 2,595     | 790       | 177       |
|                                     | \$                                                   | 128,913         | 77,646    | 25,598    | 7,752     |
| 18                                  | Pipe fittings..... \$                                | 21,047          | 1,446     | 3,707     | 1,799     |
|                                     | Totals, Tubes, Pipe and Fittings <sup>1</sup> ... \$ | 474,406         | 266,221   | 345,112   | 293,575   |
| Wire—                               |                                                      |                 |           |           |           |
| 19                                  | Barbed fencing..... cwt.                             | 1,706           | 2,213     | 5,807     | 10,066    |
|                                     | \$                                                   | 9,312           | 10,382    | 28,578    | 44,764    |
| 20                                  | Woven or welded wire fencing..... \$                 | 198,316         | 59,530    | 18,039    | 23,295    |
| 21                                  | Steel wire for rope..... cwt.                        | 115,866         | 82,400    | 40,727    | 67,594    |
|                                     | \$                                                   | 726,622         | 532,480   | 260,639   | 431,282   |
| 22                                  | Wire, twisted, braided, etc., wire rope.... \$       | 242,401         | 152,274   | 57,752    | 94,183    |
|                                     | Totals, Wire <sup>1</sup> ..... \$                   | 1,227,287       | 793,981   | 400,200   | 652,972   |
| 23                                  | Chains..... \$                                       | 162,593         | 81,559    | 51,950    | 63,065    |
| Engines and Boilers—                |                                                      |                 |           |           |           |
| 24                                  | Boilers and parts..... \$                            | 15,772          | 4,051     | 42,007    | 2,802     |
| 25                                  | Engines, aircraft..... No.                           | 70              | 12        | 8         | 1         |
|                                     | \$                                                   | 247,315         | 54,245    | 19,108    | 8,512     |
| 26                                  | Engines for trucks, gasoline or steam..... No.       | —               | —         | 272       | 150       |
|                                     | \$                                                   | —               | —         | 22,703    | 9,919     |
| 27                                  | Engines, automobile, n.o.p..... No.                  | 2               | —         | 179       | 42        |
|                                     | \$                                                   | 12,046          | 8,667     | 32,728    | 15,472    |
| 28                                  | Engines, diesel, and parts..... No.                  | 47              | 64        | 56        | 102       |
|                                     | \$                                                   | 213,875         | 159,765   | 138,344   | 186,242   |
| 29                                  | Outboard motors and parts..... No.                   | 3               | 1         | 6         | 12        |
|                                     | \$                                                   | 388             | 90        | 864       | 1,404     |
| 30                                  | Engines, internal combustion, n.o.p..... No.         | 257             | 63        | 104       | 86        |
|                                     | \$                                                   | 145,772         | 43,087    | 57,958    | 46,100    |
| 31                                  | Locomotives and parts..... No.                       | —               | —         | —         | —         |
|                                     | \$                                                   | —               | —         | —         | —         |
|                                     | Totals, Engines and Boilers <sup>1</sup> ..... \$    | 740,909         | 317,587   | 334,920   | 304,476   |

<sup>1</sup> Totals include other items not specified.

## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |            |           |           | All Countries. |            |            |            | No. |
|----------------|------------|-----------|-----------|----------------|------------|------------|------------|-----|
| 1931.          | 1932.      | 1933.     | 1934.     | 1931.          | 1932.      | 1933.      | 1934.      |     |
| 102,229        | 50,127     | 52,314    | 52,427    | 104,388        | 51,908     | 61,135     | 52,576     | 1   |
| 976,689        | 430,366    | 335,391   | 359,690   | 996,275        | 442,347    | 375,550    | 360,442    |     |
| 404,915        | 358,200    | 261,742   | 291,425   | 415,892        | 369,718    | 269,250    | 298,960    | 2   |
| 89,375         | 67,732     | 41,731    | 37,927    | 140,026        | 98,509     | 96,707     | 79,204     |     |
| 379,428        | 296,560    | 197,146   | 168,383   | 624,392        | 443,922    | 453,847    | 363,079    | 3   |
| 2,439,717      | 1,610,246  | 1,091,086 | 1,215,591 | 2,769,782      | 1,827,548  | 1,385,514  | 1,443,221  |     |
| 1,948,420      | 1,014,370  | 701,525   | 887,031   | 2,365,878      | 1,184,365  | 885,527    | 1,175,442  | 4   |
| 15,006         | 9,874      | 2,044     | 909       | 15,916         | 10,266     | 4,581      | 1,620      | 5   |
| 501,212        | 370,941    | 61,986    | 31,502    | 521,939        | 378,547    | 157,815    | 48,029     |     |
| 671,014        | 267,502    | 193,331   | 335,801   | 1,338,513      | 540,706    | 330,489    | 442,937    | 6   |
| 2,226,951      | 810,520    | 572,921   | 916,420   | 3,375,738      | 1,524,214  | 1,037,148  | 1,440,533  |     |
| 1,175,646      | 501,166    | 53,733    | 74,412    | 1,591,046      | 1,128,017  | 307,520    | 194,492    | 7   |
| 2,256,633      | 938,926    | 126,880   | 163,717   | 2,953,185      | 2,049,181  | 600,532    | 409,254    |     |
| 272,975        | 93,407     | 28,095    | 62,704    | 528,038        | 268,199    | 272,019    | 129,822    | 8   |
| 955,954        | 364,658    | 108,547   | 182,025   | 1,864,835      | 915,409    | 843,135    | 432,213    |     |
| 890,757        | 123,979    | 21,734    | 6,860     | 1,100,595      | 273,695    | 205,945    | 270,365    | 9   |
| 2,355,811      | 349,864    | 53,460    | 14,719    | 2,915,180      | 654,561    | 431,052    | 608,100    |     |
| 285,927        | 485,897    | 276,108   | 18,427    | 285,927        | 485,897    | 276,141    | 57,337     | 10  |
| 964,738        | 1,642,355  | 1,038,275 | 66,058    | 964,738        | 1,642,355  | 1,038,376  | 183,956    |     |
| 1,303,119      | 702,833    | 374,164   | 601,210   | 1,659,458      | 938,759    | 681,824    | 878,367    | 11  |
| 4,187,604      | 2,249,625  | 1,198,977 | 1,635,250 | 5,095,015      | 2,784,492  | 1,986,029  | 2,337,506  |     |
| 1,064,781      | 44,682     | 15,084    | 56,637    | 1,787,797      | 851,149    | 797,852    | 1,721,472  | 12  |
| 5,470,952      | 211,850    | 75,773    | 262,824   | 8,785,617      | 3,285,420  | 3,182,945  | 7,614,023  |     |
| 2,390,354      | 998,226    | 458,241   | 612,634   | 2,533,515      | 1,092,761  | 863,012    | 992,542    | 13  |
| 4,192,155      | 1,857,001  | 808,180   | 1,051,717 | 4,564,676      | 2,028,601  | 1,272,266  | 1,523,062  |     |
| 482,023        | 234,079    | 24,407    | 11,200    | 714,693        | 428,750    | 67,551     | 15,148     | 14  |
| 783,006        | 424,885    | 49,785    | 21,420    | 1,093,769      | 667,891    | 111,683    | 28,392     |     |
| 5,187,118      | 2,744,870  | 494,800   | 438,239   | 6,120,485      | 3,404,695  | 884,721    | 733,333    | 15  |
| 31,031,554     | 12,981,865 | 5,291,109 | 5,670,922 | 40,621,055     | 20,519,731 | 12,431,229 | 16,533,843 |     |
| 673,214        | 397,579    | 138,016   | 110,945   | 874,656        | 552,849    | 320,149    | 280,018    | 16  |
| 898            | 208        | 33        | 45        | 8,871          | 3,403      | 838        | 222        | 17  |
| 68,570         | 13,516     | 2,124     | 2,982     | 287,143        | 106,967    | 28,336     | 10,734     |     |
| 909,947        | 389,110    | 161,470   | 130,699   | 932,304        | 402,014    | 165,794    | 134,798    | 18  |
| 2,804,607      | 1,255,536  | 512,694   | 515,070   | 3,528,079      | 1,654,609  | 890,868    | 855,444    |     |
| 63,426         | 14,210     | 42        | 5         | 122,608        | 47,724     | 41,757     | 11,125     | 19  |
| 187,192        | 39,076     | 171       | 20        | 334,214        | 125,010    | 115,053    | 48,227     |     |
| 190,712        | 99,106     | 27,224    | 32,079    | 447,315        | 178,306    | 74,814     | 64,816     | 20  |
| 4,828          | 396        | 167       | 1,468     | 121,125        | 82,796     | 40,894     | 69,062     | 21  |
| 30,360         | 2,819      | 1,239     | 10,875    | 759,849        | 535,299    | 261,878    | 442,157    |     |
| 106,167        | 28,425     | 5,376     | 17,711    | 367,642        | 215,205    | 73,486     | 114,816    | 22  |
| 944,231        | 380,576    | 135,773   | 232,721   | 2,436,687      | 1,347,425  | 695,981    | 923,493    |     |
| 321,094        | 131,672    | 61,044    | 105,468   | 510,363        | 227,009    | 117,154    | 174,690    | 23  |
| 342,561        | 130,058    | 31,634    | 28,635    | 365,207        | 134,109    | 73,641     | 31,533     | 24  |
| 65             | 38         | 14        | 9         | 136            | 52         | 23         | 10         | 25  |
| 198,632        | 107,770    | 39,446    | 14,915    | 451,350        | 167,768    | 60,718     | 23,671     |     |
| 1,444          | 2,499      | 2,154     | 9,036     | 1,444          | 2,499      | 2,426      | 9,186      | 26  |
| 209,229        | 285,818    | 176,796   | 588,156   | 209,229        | 285,818    | 199,499    | 598,075    |     |
| 27,955         | 22,786     | 21,289    | 20,684    | 27,957         | 22,786     | 21,469     | 20,726     | 27  |
| 5,270,749      | 4,646,781  | 3,814,114 | 3,706,151 | 5,283,597      | 4,656,513  | 3,848,661  | 3,721,929  |     |
| 166            | 88         | 51        | 24        | 242            | 181        | 164        | 208        | 28  |
| 1,041,679      | 534,322    | 247,180   | 121,790   | 1,408,480      | 761,091    | 457,475    | 463,421    |     |
| 1,206          | 923        | 573       | 521       | 1,214          | 927        | 585        | 534        | 29  |
| 137,443        | 131,246    | 77,328    | 71,938    | 138,378        | 131,844    | 80,046     | 73,514     |     |
| 3,689          | 2,125      | 1,365     | 1,481     | 3,952          | 2,195      | 1,476      | 1,581      | 30  |
| 766,217        | 607,672    | 391,155   | 290,345   | 914,678        | 652,723    | 453,852    | 340,890    |     |
| 78             | 17         | 1         | 1         | 78             | 17         | 1          | 1          | 31  |
| 546,702        | 166,236    | 1,239     | 1,915     | 546,702        | 166,236    | 1,239      | 1,915      |     |
| 9,115,354      | 6,797,307  | 4,879,166 | 4,948,596 | 10,033,964     | 7,210,249  | 5,297,109  | 5,417,082  |     |

## 13.—Principal Imports into Canada for Consumption from United

| No.                                 | Item.                                                         | United Kingdom. |           |           |           |
|-------------------------------------|---------------------------------------------------------------|-----------------|-----------|-----------|-----------|
|                                     |                                                               | 1931.           | 1932.     | 1933.     | 1934.     |
| V. Iron and Its Products—continued. |                                                               |                 |           |           |           |
| Farm Implements and Machinery—      |                                                               |                 |           |           |           |
| 1                                   | Cream separators..... No.                                     | —               | —         | 32        | 794       |
| 2                                   | Other dairy machinery..... \$                                 | —               | —         | 1,374     | 34,702    |
| 3                                   | Harvesters..... \$                                            | 6,862           | 34,623    | 27,571    | 23,771    |
| 4                                   | Other harvesting implements..... \$                           | 20              | —         | —         | —         |
| 5                                   | Planting and Tillage—                                         | 8,601           | 6,533     | 13,401    | 13,199    |
| 6                                   | Drills and parts..... \$                                      | 81              | —         | 211       | 74        |
| 7                                   | Harrows and parts..... \$                                     | 277             | 136       | 202       | 65        |
| 8                                   | Ploughs and parts..... \$                                     | 692             | 49        | 121       | 307       |
| 9                                   | Other planting..... \$                                        | 1,119           | 1,480     | 920       | 1,126     |
| Seed Separation—                    |                                                               |                 |           |           |           |
| 10                                  | Threshing machine separators and parts. No.                   | —               | —         | —         | —         |
| 11                                  | Combined harvester-threshers and parts. No.                   | —               | —         | 107       | 56        |
| 12                                  | Spraying and dusting machines..... \$                         | 1,179           | 5,469     | 2,212     | 1,860     |
| 13                                  | Traction engines, farm, \$1,400 or less..... No.              | 15              | 3         | 5         | 1         |
| 14                                  | Other farm tractors, parts and repairs..... \$                | 9,013           | 1,187     | 152       | 1,384     |
| 15                                  | Totals, Farm Implements and Mach'y <sup>1</sup> ..... \$      | 24,242          | 8,419     | 5,443     | 10,578    |
| 16                                  | Hardware and Cutlery—                                         | 121,091         | 108,605   | 94,567    | 131,992   |
| 17                                  | Cutlery..... \$                                               | 566,500         | 403,757   | 468,927   | 571,250   |
| 18                                  | Needles and pins..... \$                                      | 198,229         | 220,301   | 222,560   | 232,645   |
| 19                                  | Nuts and bolts..... cwt.                                      | 4,042           | 2,084     | 2,368     | 2,661     |
| 20                                  | Screws..... \$                                                | 26,166          | 14,247    | 12,287    | 12,979    |
| 21                                  | Locks..... \$                                                 | 981             | 711       | 954       | 917       |
| 22                                  | Totals, Hardware and Cutlery <sup>1</sup> ..... \$            | 11,987          | 7,218     | 4,315     | 3,723     |
| 23                                  |                                                               | 868,390         | 678,979   | 743,835   | 856,619   |
| Machinery (except Agricultural)—    |                                                               |                 |           |           |           |
| 24                                  | Cleaners, vacuum, electric..... No.                           | 6               | —         | 6         | 757       |
| 25                                  | Cleaners, vacuum, hand..... \$                                | 317             | —         | 170       | 12,955    |
| 26                                  | Sewing machines..... No.                                      | —               | 26        | 273       | 2,392     |
| 27                                  | Sewing-machine parts and attachments..... \$                  | 5,960           | 1,000     | 1,719     | 2,572     |
| 28                                  | Washing machines, domestic..... No.                           | 113,553         | 38,555    | 45,227    | 59,128    |
| 29                                  | Diamond drills and parts..... \$                              | 99,676          | 40,834    | 25,701    | 36,520    |
| 30                                  | Ore crushers, stamp mills, etc..... \$                        | 1               | 2         | 1         | —         |
| 31                                  | Rock drills..... \$                                           | 35              | 1,075     | 1,175     | 10        |
| 32                                  | Well-drilling machinery and equipment..... \$                 | 7,435           | —         | 22,215    | 50,657    |
| 33                                  | Other mining and metallurgical machinery..... \$              | 258,227         | 210,011   | 241,880   | 215,873   |
| 34                                  | Office or Business—                                           | 73,560          | 98,690    | 54,885    | 116,887   |
| 35                                  | Adding machines..... No.                                      | 8,524           | 840       | 753       | 1,580     |
| 36                                  | Cash registers and parts..... \$                              | 181,015         | 67,923    | 65,418    | 105,897   |
| 37                                  | Typewriters..... No.                                          | 3               | 5         | —         | 1         |
| 38                                  | Typewriter parts..... \$                                      | 405             | 518       | 13        | 1,569     |
| 39                                  | Totals, Office or Business <sup>1</sup> ..... \$              | —               | —         | —         | —         |
| 40                                  | Printing and Bookbinding—                                     | 541             | 184       | 142       | 64        |
| 41                                  | Printing presses..... \$                                      | 33,818          | 11,698    | 8,742     | 3,594     |
| 42                                  | Typesetting machines..... \$                                  | 428             | 959       | 1,963     | 466       |
| 43                                  | Totals, Printing, etc. <sup>1</sup> ..... \$                  | 34,651          | 16,692    | 15,438    | 9,013     |
| 44                                  | Air compressors..... \$                                       | 188,631         | 122,843   | 135,124   | 140,964   |
| 45                                  | Coke and gas machinery..... \$                                | 1,517           | 898       | 327       | 18        |
| 46                                  | Ice-making and refrigerating machinery..... \$                | 333,513         | 174,001   | 231,425   | 197,510   |
| 47                                  | Logging equipment..... \$                                     | 81,069          | 64,653    | 45,914    | 23,359    |
| 48                                  | Metal-working machines, n.o.p..... \$                         | 70,262          | 26,784    | 261,775   | 185,703   |
| 49                                  | Paper- and pulp-mill machinery..... \$                        | 2,250           | —         | 3,511     | —         |
| 50                                  | Pumps, power, and parts..... \$                               | 34,481          | 326       | —         | 1,499     |
| 51                                  | Road machinery (incl. rollers and scrapers)..... \$           | 511,736         | 273,101   | 80,095    | 92,343    |
| 52                                  | Rolling-mill machines and rolls..... \$                       | 14,863          | 4,803     | 12,596    | 20,791    |
| 53                                  | Shovels, steam and electric..... \$                           | 66,733          | 38,450    | 36,241    | 16,695    |
| 54                                  | Textile machinery..... \$                                     | 27,238          | 12,205    | 1,190     | 81        |
| 55                                  | Shoe machinery..... \$                                        | 6,252           | 15,404    | 6,633     | 6,366     |
| 56                                  | Totals, Machinery (except Agricultural) <sup>1</sup> ..... \$ | 7,357           | 82        | 2,085     | 12,132    |
| 57                                  |                                                               | 595,684         | 783,325   | 419,772   | 627,790   |
| 58                                  |                                                               | 11,254          | 613       | 4,050     | 10,196    |
| 59                                  |                                                               | 3,772,636       | 2,599,929 | 1,896,217 | 2,271,846 |

<sup>1</sup>Totals include other items not specified.



## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |            |            |            | All Countries. |            |            |            | No. |
|----------------|------------|------------|------------|----------------|------------|------------|------------|-----|
| 1931.          | 1932.      | 1933.      | 1934.      | 1931.          | 1932.      | 1933.      | 1934.      |     |
| 14,763         | 5,920      | 3,177      | 4,848      | 23,838         | 10,530     | 6,193      | 10,995     | 1   |
| 859,311        | 338,323    | 205,508    | 330,210    | 1,089,904      | 455,721    | 262,548    | 457,335    | 2   |
| 178,455        | 154,205    | 59,545     | 72,286     | 188,170        | 191,686    | 87,536     | 96,710     | 3   |
| 1,439,502      | 54,399     | 87,975     | 70,759     | 1,439,947      | 54,399     | 88,884     | 71,138     | 4   |
| 395,735        | 65,755     | 39,264     | 27,073     | 434,595        | 82,136     | 68,909     | 65,520     | 5   |
| 210,488        | 13,714     | 8,832      | 15,708     | 210,569        | 13,714     | 9,223      | 15,864     | 6   |
| 315,530        | 18,852     | 3,164      | 8,662      | 317,069        | 19,122     | 3,450      | 8,826      | 7   |
| 994,308        | 22,914     | 41,907     | 15,214     | 997,793        | 23,449     | 42,398     | 16,335     | 8   |
| 189,723        | 51,013     | 15,325     | 32,135     | 191,062        | 53,156     | 16,974     | 34,561     | 9   |
| 854            | 54         | 44         | 68         | 855            | 54         | 44         | 68         | 10  |
| 973,364        | 69,804     | 62,328     | 71,237     | 973,743        | 69,804     | 62,435     | 71,293     | 11  |
| 1,524          | 13         | 1          | —          | 1,524          | 13         | 1          | —          | 12  |
| 2,215,159      | 17,008     | 1,870      | 20         | 2,215,159      | 17,008     | 1,964      | 20         | 13  |
| 140,610        | 90,655     | 48,457     | 34,692     | 143,458        | 96,567     | 45,241     | 37,265     | 14  |
| 5,479          | 471        | 116        | 198        | 6,550          | 474        | 136        | 199        | 15  |
| 4,179,964      | 334,445    | 89,219     | 121,447    | 4,816,839      | 334,568    | 107,650    | 122,831    | 16  |
| 2,243,439      | 578,491    | 699,405    | 638,630    | 2,325,881      | 600,339    | 722,202    | 650,430    | 17  |
| 15,408,492     | 3,049,102  | 1,997,286  | 2,017,558  | 16,495,217     | 3,315,542  | 2,208,028  | 2,283,771  | 18  |
| 326,346        | 229,745    | 110,843    | 151,334    | 1,294,512      | 981,768    | 815,081    | 929,400    | 19  |
| 212,338        | 163,606    | 130,199    | 108,254    | 450,695        | 426,817    | 381,547    | 374,506    | 20  |
| 29,472         | 19,189     | 10,676     | 16,407     | 34,101         | 21,676     | 13,216     | 19,081     | 21  |
| 329,076        | 224,309    | 143,726    | 211,649    | 357,620        | 240,443    | 157,237    | 224,872    | 22  |
| 108,189        | 86,008     | 53,860     | 65,296     | 117,917        | 88,389     | 55,404     | 66,259     | 23  |
| 365,722        | 162,446    | 57,966     | 42,105     | 408,928        | 193,640    | 85,501     | 75,836     | 24  |
| 1,968,829      | 1,300,361  | 727,009    | 843,278    | 3,404,989      | 2,469,475  | 1,790,528  | 1,996,244  | 25  |
| 17,527         | 7,237      | 1,890      | 1,895      | 17,560         | 7,745      | 8,746      | 13,317     | 26  |
| 774,907        | 241,105    | 57,075     | 26,738     | 779,358        | 249,556    | 174,117    | 297,041    | 27  |
| —              | 515,384    | 460,746    | 264,824    | —              | 517,269    | 462,373    | 269,796    | 28  |
| 9,119          | 5,425      | 4,039      | 3,393      | 15,389         | 6,441      | 6,094      | 6,309      | 29  |
| 356,921        | 257,799    | 158,400    | 166,462    | 472,138        | 297,700    | 214,444    | 237,014    | 30  |
| 142,451        | 106,924    | 86,868     | 115,244    | 243,195        | 150,426    | 115,477    | 155,082    | 31  |
| 14,807         | 6,919      | 1,775      | 1,442      | 14,809         | 6,921      | 1,779      | 1,442      | 32  |
| 1,040,286      | 521,261    | 232,023    | 183,228    | 1,040,381      | 522,342    | 233,327    | 183,238    | 33  |
| 170,236        | 27,851     | 27,447     | 59,456     | 177,671        | 26,931     | 59,974     | 111,629    | 34  |
| 974,555        | 440,006    | 200,661    | 185,797    | 1,340,246      | 674,282    | 456,920    | 408,379    | 35  |
| 419,280        | 236,997    | 207,954    | 309,934    | 493,296        | 335,904    | 263,093    | 427,824    | 36  |
| 1,738,555      | 276,929    | 52,374     | 83,929     | 1,859,936      | 279,645    | 53,127     | 85,509     | 37  |
| 2,161,822      | 843,187    | 387,690    | 488,002    | 2,446,668      | 935,976    | 477,343    | 600,092    | 38  |
| 5,061          | 1,966      | 655        | 773        | 5,113          | 2,030      | 681        | 787        | 39  |
| 594,879        | 445,678    | 347,150    | 482,804    | 603,167        | 454,632    | 351,464    | 487,612    | 40  |
| 353,518        | 100,880    | 187,576    | 208,290    | 353,522        | 100,880    | 187,576    | 208,290    | 41  |
| 10,533         | 8,112      | 4,209      | 5,745      | 11,155         | 8,316      | 4,362      | 5,813      | 42  |
| 499,302        | 285,620    | 143,991    | 139,185    | 534,427        | 297,561    | 153,364    | 142,880    | 43  |
| 258,521        | 338,714    | 620,862    | 326,855    | 258,949        | 339,788    | 622,832    | 327,321    | 44  |
| 1,963,992      | 1,254,950  | 1,363,763  | 1,223,599  | 2,008,219      | 1,280,434  | 1,384,140  | 1,235,952  | 45  |
| 1,376,223      | 1,135,537  | 524,205    | 317,163    | 1,668,796      | 1,343,785  | 708,610    | 495,409    | 46  |
| 715,987        | 453,893    | 198,408    | 229,073    | 718,205        | 454,965    | 198,735    | 229,091    | 47  |
| 2,950,925      | 2,131,641  | 1,079,844  | 946,187    | 3,455,865      | 2,453,181  | 1,434,587  | 1,239,806  | 48  |
| 609,350        | 304,773    | 101,474    | 133,487    | 693,006        | 377,627    | 147,561    | 158,633    | 49  |
| 289,433        | 29,251     | 10,999     | 10,933     | 359,695        | 56,167     | 272,774    | 196,636    | 50  |
| 313,442        | 485,070    | 302,948    | 207,222    | 315,692        | 485,070    | 306,466    | 207,222    | 51  |
| 276,588        | 127,107    | 50,311     | 173,271    | 318,313        | 127,859    | 51,225     | 191,648    | 52  |
| 3,196,889      | 2,316,199  | 1,376,251  | 647,973    | 3,776,434      | 2,632,975  | 1,485,934  | 760,073    | 53  |
| 1,088,177      | 299,802    | 204,277    | 257,256    | 1,110,701      | 310,789    | 238,124    | 308,929    | 54  |
| 838,701        | 447,581    | 234,356    | 191,168    | 916,095        | 487,445    | 270,807    | 208,548    | 55  |
| 1,085,147      | 188,124    | 24,688     | 20,862     | 1,113,474      | 200,329    | 25,924     | 21,392     | 56  |
| 911,656        | 201,429    | 74,104     | 92,286     | 931,548        | 218,753    | 81,271     | 98,652     | 57  |
| 1,007,973      | 399,412    | 91,295     | 47,913     | 1,015,330      | 402,615    | 93,845     | 60,046     | 58  |
| 3,003,389      | 2,621,379  | 1,592,583  | 2,243,525  | 3,661,193      | 3,513,243  | 2,088,556  | 3,095,628  | 59  |
| 150,454        | 120,130    | 88,280     | 84,647     | 170,629        | 130,748    | 97,846     | 99,818     | 60  |
| 39,467,849     | 21,115,345 | 11,519,475 | 10,766,912 | 44,348,948     | 24,375,861 | 13,997,759 | 13,847,326 | 61  |

## 13.—Principal Imports into Canada for Consumption from United

| No.                                 | Item.                                               | United Kingdom. |            |            |            |
|-------------------------------------|-----------------------------------------------------|-----------------|------------|------------|------------|
|                                     |                                                     | 1931.           | 1932.      | 1933.      | 1934.      |
| V. Iron and Its Products—concluded. |                                                     |                 |            |            |            |
| 1                                   | Springs..... \$                                     | 4,250           | 2,629      | 498        | 22         |
| 2                                   | Stamped and Coated Products—                        |                 |            |            |            |
| 3                                   | Tin cans for canning..... \$                        | 4,546           | —          | —          | —          |
| 4                                   | Hollow-ware, enamelled..... \$                      | 72,047          | 74,748     | 81,366     | 75,392     |
|                                     | Other tin-plate containers..... \$                  | —               | —          | —          | 48,362     |
|                                     | Totals, Stamped and Coated <sup>1</sup> ..... \$    | 216,646         | 184,675    | 178,218    | 178,464    |
| 5                                   | Tools and hand implements..... \$                   | 244,508         | 186,221    | 159,634    | 221,217    |
|                                     | Vehicles—                                           |                 |            |            |            |
| 6                                   | Automobiles, freight..... No.                       | 102             | 34         | 41         | 162        |
|                                     | ..... \$                                            | 255,703         | 90,428     | 52,522     | 106,863    |
| 7                                   | Automobiles, passenger..... No.                     | 49              | 74         | 70         | 284        |
|                                     | ..... \$                                            | 199,664         | 248,241    | 100,248    | 210,997    |
| 8                                   | Automobile parts..... \$                            | 74,615          | 41,045     | 64,788     | 69,122     |
| 9                                   | Railway cars, all kinds..... No.                    | 114             | —          | 73         | 140        |
|                                     | ..... \$                                            | 22,262          | —          | 4,533      | 7,070      |
| 10                                  | Railway cars, parts of..... \$                      | 184,185         | 16,272     | 10,888     | 24,667     |
|                                     | Totals, Vehicles <sup>1</sup> ..... \$              | 967,833         | 606,802    | 419,357    | 735,933    |
| 11                                  | Drums, tanks, cylinders..... \$                     | 60,152          | 46,742     | 34,943     | 38,972     |
| 12                                  | Furniture..... \$                                   | 22,722          | 17,088     | 11,265     | 4,554      |
| 13                                  | Scales, balances, weighing apparatus, etc..... \$   | 37,133          | 49,974     | 12,948     | 34,244     |
| 14                                  | Stoves, apparatus for cooking and heating..... \$   | 32,568          | 22,444     | 3,636      | 10,574     |
| 15                                  | Valves..... \$                                      | 52,356          | 80,542     | 53,788     | 18,480     |
|                                     | Totals, Iron and Its Products <sup>1</sup> ..... \$ | 18,039,899      | 13,381,747 | 11,936,542 | 16,711,935 |
| VI. Non-Ferrous Metals.             |                                                     |                 |            |            |            |
|                                     | Aluminium—                                          |                 |            |            |            |
| 16                                  | Bauxite (ore)..... cwt.                             | —               | —          | 263,893    | 224,403    |
|                                     | ..... \$                                            | —               | —          | 494,821    | 428,819    |
| 17                                  | Cryolite..... cwt.                                  | —               | —          | —          | 40         |
|                                     | ..... \$                                            | —               | —          | —          | 441        |
| 18                                  | Plates, sheets and strips..... cwt.                 | 9,354           | 14,117     | 10,403     | 9,489      |
|                                     | ..... \$                                            | 235,657         | 340,637    | 259,466    | 274,426    |
| 19                                  | Leaf and foil..... \$                               | 20,562          | 5,191      | 3,661      | 2,650      |
| 20                                  | Household hollow-ware..... \$                       | 10,297          | 6,505      | 4,946      | 4,811      |
|                                     | Totals, Aluminium <sup>1</sup> ..... \$             | 533,994         | 425,244    | 857,896    | 780,643    |
|                                     | Brass—                                              |                 |            |            |            |
| 21                                  | Bars and rods..... cwt.                             | 3,013           | 2,756      | 882        | 1,441      |
|                                     | ..... \$                                            | 44,854          | 37,280     | 12,369     | 16,191     |
| 22                                  | Strips, sheets, plates..... cwt.                    | 1,042           | 697        | 424        | 657        |
|                                     | ..... \$                                            | 19,400          | 10,928     | 6,668      | 11,053     |
| 23                                  | Tubing..... lb.                                     | 727,055         | 573,190    | 321,448    | 207,926    |
|                                     | ..... \$                                            | 150,969         | 101,321    | 52,095     | 37,341     |
| 24                                  | Valves..... \$                                      | 4,846           | 2,426      | 23,555     | 3,255      |
| 25                                  | Wire, plain..... lb.                                | 36,524          | 60,083     | 176,556    | 337,415    |
|                                     | ..... \$                                            | 8,326           | 13,478     | 37,475     | 77,399     |
|                                     | Totals, Brass <sup>1</sup> ..... \$                 | 694,287         | 452,480    | 338,024    | 302,845    |
|                                     | Copper—                                             |                 |            |            |            |
| 26                                  | Bars and rods..... cwt.                             | 224             | 179        | 335        | 110        |
|                                     | ..... \$                                            | 4,159           | 2,537      | 4,926      | 1,789      |
| 27                                  | Strips, sheets, plates..... cwt.                    | 1,273           | 1,494      | 1,063      | 713        |
|                                     | ..... \$                                            | 26,330          | 26,103     | 17,042     | 11,498     |
| 28                                  | Tubing..... lb.                                     | 208,879         | 166,571    | 235,865    | 70,870     |
|                                     | ..... \$                                            | 46,549          | 33,499     | 40,949     | 12,762     |
|                                     | Totals, Copper <sup>1</sup> ..... \$                | 179,647         | 140,992    | 114,373    | 115,884    |
| 29                                  | Lead and its products..... \$                       | 189,957         | 78,404     | 34,329     | 41,784     |
|                                     | Nickel—                                             |                 |            |            |            |
| 30                                  | Bars, rods, sheets, etc..... lb.                    | 111,939         | 157,743    | —          | —          |
|                                     | ..... \$                                            | 17,910          | 37,221     | —          | —          |
| 31                                  | Nickel-plated ware..... \$                          | 154,809         | 139,659    | 113,645    | 67,336     |
| 32                                  | German-silver manufactures..... \$                  | 32,148          | 32,354     | 23,765     | 16,883     |
|                                     | Totals, Nickel <sup>1</sup> ..... \$                | 246,415         | 212,082    | 137,825    | 84,465     |

<sup>1</sup> Totals include other items not specified.

## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |            |            |            | All Countries. |            |            |            | No. |
|----------------|------------|------------|------------|----------------|------------|------------|------------|-----|
| 1931.          | 1932.      | 1933.      | 1934.      | 1931.          | 1932.      | 1933.      | 1934.      |     |
| 149,500        | 131,566    | 60,920     | 57,915     | 154,099        | 134,197    | 62,007     | 59,983     | 1   |
| 452,920        | 78,351     | 132,813    | 139,238    | 457,890        | 78,351     | 132,813    | 139,238    | 2   |
| 225,755        | 132,883    | 37,890     | 42,782     | 425,589        | 299,887    | 174,650    | 152,006    | 3   |
| —              | —          | —          | 163,594    | —              | —          | —          | 219,064    | 4   |
| 1,930,416      | 1,143,317  | 845,292    | 750,575    | 2,311,180      | 1,443,449  | 1,105,421  | 984,413    |     |
| 1,528,208      | 708,723    | 368,495    | 537,705    | 2,078,213      | 1,078,492  | 709,361    | 967,225    | 5   |
| 2,883          | 764        | 225        | 683        | 2,987          | 799        | 266        | 848        | 6   |
| 3,656,587      | 848,542    | 193,722    | 438,586    | 3,913,361      | 939,306    | 246,244    | 554,384    | 7   |
| 16,990         | 4,708      | 841        | 947        | 17,058         | 4,796      | 912        | 1,234      | 8   |
| 13,115,908     | 3,550,050  | 565,462    | 561,817    | 13,358,529     | 3,816,447  | 667,550    | 776,867    | 9   |
| 19,399,181     | 13,361,750 | 9,889,555  | 13,677,898 | 19,597,213     | 13,451,825 | 10,022,832 | 13,760,242 | 10  |
| 874            | 233        | 174        | 127        | 1,006          | 233        | 257        | 267        | 11  |
| 345,095        | 147,567    | 127,085    | 56,565     | 367,968        | 147,567    | 132,276    | 63,635     | 12  |
| 1,112,418      | 136,236    | 105,853    | 117,866    | 1,296,603      | 153,333    | 116,741    | 142,533    | 13  |
| 39,146,757     | 18,593,333 | 11,074,290 | 15,134,358 | 40,313,897     | 19,280,121 | 11,568,023 | 15,902,094 | 14  |
| 877,410        | 403,587    | 234,356    | 155,299    | 1,104,177      | 585,737    | 333,534    | 235,796    | 15  |
| 952,909        | 419,521    | 154,517    | 119,880    | 991,858        | 442,691    | 172,061    | 130,734    | 16  |
| 343,293        | 162,839    | 92,479     | 99,202     | 384,661        | 217,796    | 107,860    | 137,755    | 17  |
| 1,618,275      | 870,239    | 373,692    | 432,473    | 1,658,076      | 897,041    | 381,965    | 450,430    | 18  |
| 866,245        | 435,259    | 253,841    | 164,531    | 923,959        | 513,796    | 308,594    | 183,281    | 19  |
| 166,793,795    | 80,538,800 | 43,934,110 | 49,098,932 | 192,614,200    | 98,297,622 | 58,917,834 | 69,126,641 | 20  |
| 2,167,172      | 1,636,609  | 368,046    | 632,370    | 2,173,892      | 1,636,609  | 742,169    | 1,193,745  | 21  |
| 3,323,990      | 2,730,764  | 700,370    | 712,306    | 3,325,955      | 2,730,764  | 1,387,310  | 1,815,462  | 22  |
| 1,385          | 2,633      | 2,455      | 2,178      | 46,296         | 47,333     | 2,653      | 47,018     | 23  |
| 10,699         | 21,613     | 20,718     | 17,867     | 190,799        | 191,813    | 22,361     | 201,492    | 24  |
| 1,582          | 339        | 2,214      | 152        | 10,941         | 14,713     | 12,617     | 9,642      | 25  |
| 65,490         | 16,927     | 36,366     | 7,405      | 301,257        | 359,778    | 295,832    | 281,880    | 26  |
| 29,008         | 16,120     | 12,288     | 6,725      | 222,648        | 105,754    | 101,487    | 55,595     | 27  |
| 322,432        | 132,555    | 73,543     | 61,356     | 355,464        | 152,798    | 86,841     | 68,788     | 28  |
| 5,196,573      | 4,019,571  | 1,454,313  | 1,251,550  | 6,135,570      | 4,746,334  | 2,619,797  | 2,967,437  | 29  |
| 3,465          | 1,482      | 468        | 297        | 6,478          | 4,238      | 1,350      | 1,740      | 30  |
| 73,813         | 22,487     | 7,619      | 6,219      | 118,667        | 59,767     | 19,988     | 22,448     | 31  |
| 7,077          | 4,277      | 1,439      | 636        | 8,119          | 4,975      | 1,863      | 1,293      | 32  |
| 132,658        | 71,662     | 25,668     | 11,884     | 152,058        | 82,608     | 32,336     | 22,937     | 33  |
| 2,773,540      | 1,975,240  | 669,991    | 111,591    | 3,516,084      | 2,565,654  | 991,439    | 319,517    | 34  |
| 529,221        | 313,994    | 107,437    | 29,195     | 684,265        | 418,912    | 159,532    | 66,536     | 35  |
| 342,007        | 271,793    | 167,714    | 151,667    | 356,065        | 274,805    | 191,852    | 155,010    | 36  |
| 504,921        | 206,498    | 72,571     | 164,211    | 544,786        | 268,402    | 266,240    | 503,234    | 37  |
| 108,738        | 45,869     | 16,803     | 38,471     | 117,999        | 59,822     | 58,425     | 116,324    | 38  |
| 3,765,108      | 2,463,365  | 1,345,321  | 1,231,806  | 4,768,722      | 3,195,481  | 1,836,598  | 1,699,857  | 39  |
| 307,246        | 45,291     | 6,168      | 4,278      | 307,470        | 45,470     | 6,503      | 4,388      | 40  |
| 3,935,938      | 474,809    | 71,438     | 54,129     | 3,940,097      | 477,346    | 76,364     | 55,918     | 41  |
| 18,320         | 5,626      | 1,029      | 572        | 19,883         | 7,503      | 2,092      | 1,285      | 42  |
| 374,186        | 95,374     | 17,307     | 11,954     | 406,135        | 127,424    | 34,349     | 23,452     | 43  |
| 1,823,558      | 1,530,369  | 541,768    | 183,541    | 2,035,672      | 1,699,401  | 778,972    | 254,467    | 44  |
| 389,965        | 284,238    | 98,600     | 43,108     | 437,113        | 318,213    | 139,774    | 55,877     | 45  |
| 6,867,135      | 1,421,418  | 461,930    | 361,196    | 7,070,753      | 1,580,955  | 584,458    | 497,919    | 46  |
| 130,014        | 66,721     | 46,902     | 47,081     | 373,810        | 200,918    | 112,611    | 105,112    | 47  |
| 758,730        | 421,831    | 258,620    | 409,043    | 870,669        | 579,574    | 258,620    | 409,043    | 48  |
| 298,178        | 179,398    | 121,825    | 130,919    | 316,088        | 216,619    | 121,825    | 130,919    | 49  |
| 1,350,123      | 798,947    | 451,668    | 397,601    | 1,778,039      | 1,130,199  | 726,593    | 623,714    | 50  |
| 346,056        | 168,106    | 103,078    | 128,509    | 384,708        | 220,639    | 133,871    | 146,494    | 51  |
| 2,063,453      | 1,215,044  | 739,442    | 914,775    | 2,590,182      | 1,639,533  | 1,045,900  | 1,159,769  | 52  |

## 13.—Principal Imports into Canada for Consumption from United

| No.                                      | Item.                                                    | United Kingdom. |           |           |           |
|------------------------------------------|----------------------------------------------------------|-----------------|-----------|-----------|-----------|
|                                          |                                                          | 1931.           | 1932.     | 1933.     | 1934.     |
| <b>VI. Non-Ferrous Metals—concluded.</b> |                                                          |                 |           |           |           |
| Precious Metals—                         |                                                          |                 |           |           |           |
| 1                                        | Electro-plated ware..... \$                              | 749,371         | 411,500   | 249,582   | 207,036   |
| 2                                        | Silver in bars, blocks, etc..... \$                      | 26,006          | 85,931    | 87,126    | 71,489    |
|                                          | Totals, Precious Metals <sup>1</sup> ..... \$            | 971,261         | 627,385   | 438,143   | 411,237   |
| Tin—                                     |                                                          |                 |           |           |           |
| 3                                        | Tin blocks, bars, pigs..... cwt.                         | 8,224           | 4,295     | 5,497     | 5,808     |
|                                          | \$                                                       | 238,631         | 109,384   | 156,933   | 255,507   |
|                                          | Totals, Tin <sup>1</sup> ..... \$                        | 263,760         | 148,956   | 195,802   | 290,788   |
| 4                                        | Zinc sheets and plates..... cwt.                         | 691             | 499       | 588       | 430       |
|                                          | \$                                                       | 3,905           | 2,370     | 2,498     | 3,065     |
|                                          | Totals, Zinc <sup>1</sup> ..... \$                       | 30,438          | 12,467    | 5,158     | 5,455     |
| 5                                        | Phosphor tin and bronze..... lb.                         | 198,276         | 100,505   | 99,366    | 312,929   |
|                                          | \$                                                       | 61,690          | 29,377    | 29,216    | 83,599    |
| 6                                        | Clocks and watches..... \$                               | 51,620          | 41,581    | 26,745    | 17,299    |
| Electric Apparatus—                      |                                                          |                 |           |           |           |
| 7                                        | Batteries, primary..... \$                               | 2,094           | 1,601     | 1,566     | 1,506     |
| 8                                        | Batteries, storage (and parts)..... \$                   | 358,688         | 183,960   | 92,105    | 29,242    |
| 9                                        | Electric heating and cooking apparatus..... \$           | 751             | 1,471     | 1,274     | 706       |
| 10                                       | Dynamos, generators..... \$                              | 336,897         | 117,541   | 23,866    | 21,385    |
| 11                                       | Incandescent lamps..... \$                               | 1,811           | 2,177     | 1,162     | 1,021     |
| 12                                       | Flash lights, head lights, etc..... \$                   | 4,512           | 3,100     | 2,116     | 2,629     |
| 13                                       | Electric light fixtures..... \$                          | 22,154          | 14,015    | 9,997     | 12,912    |
| 14                                       | Meters..... \$                                           | 88,857          | 41,496    | 23,491    | 18,599    |
| 15                                       | Motors..... \$                                           | 567,147         | 304,639   | 168,576   | 128,244   |
| 16                                       | Spark plugs, etc..... \$                                 | 5,181           | 21,262    | 48,110    | 14,191    |
| 17                                       | Switches, etc..... \$                                    | 154,900         | 71,601    | 26,344    | 40,139    |
| 18                                       | Telegraph instruments..... \$                            | 59,781          | 28,103    | 4,751     | 2,575     |
| 19                                       | Telephone instruments..... \$                            | 420,308         | 260,153   | 49,379    | 29,759    |
| 20                                       | Transformers..... \$                                     | 386,418         | 319,305   | 242,900   | 12,113    |
| 21                                       | Radio tubes..... \$                                      | 20,784          | 9,997     | 5,409     | 223       |
| 22                                       | Wireless and radio apparatus, n.o.p..... \$              | 66,284          | 32,291    | 36,192    | 63,609    |
|                                          | Totals, Electric Apparatus, n.o.p. <sup>1</sup> ..... \$ | 2,768,802       | 1,653,346 | 854,283   | 537,963   |
| 23                                       | Gas apparatus..... \$                                    | 5,931           | 2,978     | 3,534     | 4,294     |
| Printing Materials (except Machinery)—   |                                                          |                 |           |           |           |
| 24                                       | Stereotypes..... sq. in.                                 | 27,890          | 58,745    | 104,829   | 124,883   |
|                                          | \$                                                       | 2,515           | 2,562     | 2,796     | 3,582     |
|                                          | Totals, Printing Materials <sup>1</sup> ..... \$         | 17,924          | 50,821    | 14,762    | 20,324    |
| 25                                       | Manganese oxide..... cwt.                                | 31              | 31        | 28        | 22        |
|                                          | \$                                                       | 80              | 99        | 85        | 68        |
| 26                                       | Antimony, not ground..... lb.                            | 6,720           | 81,976    | 34,328    | 157,920   |
|                                          | \$                                                       | 589             | 5,995     | 2,117     | 9,092     |
| 27                                       | Mercury..... lb.                                         | 2,152           | 850       | 13,217    | 14,938    |
|                                          | \$                                                       | 2,721           | 1,134     | 9,789     | 9,650     |
| 28                                       | Buckles, clasps, fasteners..... \$                       | 5,806           | 7,659     | 12,373    | 51,537    |
| 29                                       | Lamps and lanterns..... \$                               | 17,341          | 7,161     | 2,205     | 2,275     |
| 30                                       | Articles for shipbuilding..... \$                        | 144,075         | 238,475   | 89,659    | 61,870    |
|                                          | Totals, Non-Ferrous Metals <sup>1</sup> ..... \$         | 6,340,567       | 4,275,877 | 3,314,548 | 2,967,035 |
| <b>VII. Non-Metallic Minerals.</b>       |                                                          |                 |           |           |           |
| 31                                       | Asbestos, other than crude..... \$                       | 118,756         | 101,692   | 100,431   | 180,217   |
| Clay and Clay Products—                  |                                                          |                 |           |           |           |
| 32                                       | China clay..... cwt.                                     | 268,407         | 204,272   | 224,458   | 263,912   |
| 33                                       | Fire clay..... cwt.                                      | 133,103         | 81,171    | 86,882    | 108,700   |
|                                          | \$                                                       | 25,843          | 14,526    | 13,457    | 18,639    |
|                                          | \$                                                       | 6,874           | 7,403     | 5,572     | 6,168     |
| 34                                       | Bricks, fire..... \$                                     | 179,002         | 176,678   | 104,686   | 112,636   |
| 35                                       | Brick and tile, n.o.p..... \$                            | 358,312         | 251,138   | 108,138   | 67,153    |
| 36                                       | Pottery and chinaware..... \$                            | 2,742,533       | 2,512,620 | 2,425,276 | 2,194,305 |
| 37                                       | Artificial teeth..... \$                                 | 412             | 551       | 662       | —         |
| 38                                       | Bathtubs, etc..... \$                                    | 354,128         | 256,361   | 113,648   | 90,038    |
| 39                                       | Insulators, porcelain..... \$                            | 7,590           | 6,652     | 7,432     | 1,680     |
|                                          | Totals, Clay and Clay Products <sup>1</sup> ..... \$     | 3,822,307       | 3,328,963 | 2,873,325 | 2,618,084 |

<sup>1</sup>Totals include other items not specified.



## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |            |            |            | All Countries. |            |            |            | No. |
|----------------|------------|------------|------------|----------------|------------|------------|------------|-----|
| 1931.          | 1932.      | 1933.      | 1934.      | 1931.          | 1932.      | 1933.      | 1934.      |     |
| 158,181        | 85,620     | 43,417     | 68,714     | 943,405        | 521,413    | 308,636    | 288,603    | 1   |
| 524,605        | 433,513    | 430,256    | 714,538    | 550,878        | 520,241    | 517,382    | 786,027    | 2   |
| 902,588        | 632,606    | 540,084    | 1,090,524  | 1,956,014      | 1,310,956  | 1,025,075  | 1,545,244  |     |
| 39,707         | 32,790     | 21,363     | 23,942     | 49,727         | 38,095     | 28,763     | 31,322     | 3   |
| 1,161,730      | 837,209    | 543,757    | 1,168,970  | 1,458,362      | 975,274    | 749,017    | 1,499,613  |     |
| 1,218,154      | 871,979    | 577,582    | 1,215,244  | 1,540,550      | 1,048,928  | 822,642    | 1,581,483  |     |
| 29,234         | 28,705     | 26,894     | 27,024     | 46,123         | 39,781     | 40,116     | 39,072     | 4   |
| 237,857        | 228,296    | 260,546    | 198,545    | 323,611        | 274,634    | 268,586    | 264,811    |     |
| 470,837        | 374,835    | 313,918    | 309,341    | 687,191        | 434,847    | 380,001    | 403,525    |     |
| 331,689        | 157,960    | 81,466     | 86,006     | 794,143        | 520,539    | 312,109    | 574,868    | 5   |
| 121,506        | 48,402     | 19,681     | 19,282     | 260,872        | 155,686    | 78,631     | 154,574    |     |
| 819,287        | 607,662    | 256,622    | 262,006    | 2,551,866      | 1,763,763  | 918,240    | 1,024,092  | 6   |
| 136,687        | 141,791    | 101,893    | 95,628     | 143,035        | 145,912    | 104,684    | 97,309     | 7   |
| 254,874        | 208,184    | 76,596     | 80,738     | 615,815        | 392,331    | 168,709    | 110,114    | 8   |
| 469,069        | 298,190    | 174,244    | 67,736     | 471,882        | 306,639    | 178,060    | 68,923     | 9   |
| 682,001        | 293,448    | 158,672    | 150,551    | 1,263,378      | 446,112    | 187,159    | 429,093    | 10  |
| 49,459         | 25,338     | 38,915     | 63,946     | 124,108        | 78,661     | 76,984     | 81,982     | 11  |
| 240,766        | 305,244    | 182,572    | 322,232    | 251,178        | 325,005    | 205,575    | 330,272    | 12  |
| 949,607        | 641,698    | 160,138    | 149,768    | 1,012,336      | 696,995    | 187,947    | 176,764    | 13  |
| 261,880        | 139,477    | 59,275     | 56,252     | 354,664        | 184,142    | 84,110     | 76,883     | 14  |
| 2,128,875      | 1,413,784  | 683,543    | 543,039    | 2,742,463      | 1,750,859  | 878,384    | 682,806    | 15  |
| 442,777        | 210,017    | 208,572    | 203,546    | 458,330        | 239,937    | 261,190    | 218,915    | 16  |
| 1,318,914      | 815,441    | 369,469    | 302,436    | 1,533,265      | 892,990    | 404,121    | 343,803    | 17  |
| 322,563        | 276,651    | 20,088     | 89,625     | 382,344        | 304,754    | 25,261     | 92,395     | 18  |
| 2,123,521      | 850,937    | 315,783    | 177,458    | 2,544,619      | 1,111,663  | 387,603    | 297,906    | 19  |
| 389,948        | 163,211    | 51,084     | 34,518     | 780,439        | 483,208    | 294,425    | 47,440     | 20  |
| 216,145        | 82,832     | 56,039     | 97,400     | 236,929        | 92,829     | 61,448     | 97,667     | 21  |
| 7,737,067      | 4,004,418  | 1,005,459  | 1,244,416  | 7,845,188      | 4,067,380  | 1,043,345  | 1,308,472  | 22  |
| 23,413,446     | 12,646,875 | 5,029,203  | 5,036,487  | 26,804,362     | 14,672,423 | 6,048,542  | 5,915,024  |     |
| 196,935        | 90,438     | 95,538     | 79,943     | 209,561        | 94,838     | 100,125    | 90,677     | 23  |
| 5,588,762      | 7,372,578  | 10,339,478 | 10,123,773 | 5,618,652      | 7,434,367  | 10,446,142 | 10,256,115 | 24  |
| 323,791        | 423,146    | 414,794    | 325,449    | 326,738        | 426,107    | 417,838    | 329,316    |     |
| 416,978        | 659,262    | 625,744    | 560,514    | 598,066        | 714,723    | 642,852    | 585,448    |     |
| 20,757         | 52,854     | 24,956     | 28,090     | 1,973,139      | 532,506    | 36,997     | 679,454    | 25  |
| 49,896         | 88,281     | 65,774     | 66,219     | 1,983,942      | 279,576    | 71,303     | 291,645    |     |
| 1,202,132      | 613,617    | 322,239    | 541,223    | 1,308,576      | 783,048    | 447,266    | 759,681    | 26  |
| 75,228         | 37,823     | 18,315     | 29,538     | 82,631         | 49,004     | 25,125     | 41,640     |     |
| 52,127         | 17,227     | 19,759     | 67,374     | 59,190         | 24,528     | 40,298     | 93,723     | 27  |
| 77,313         | 19,978     | 16,456     | 50,470     | 88,821         | 27,938     | 31,989     | 66,441     |     |
| 151,161        | 120,694    | 122,654    | 147,902    | 162,250        | 136,260    | 146,923    | 221,288    | 28  |
| 488,675        | 123,219    | 29,271     | 21,040     | 593,592        | 162,709    | 40,979     | 32,489     | 29  |
| 910,472        | 290,349    | 82,035     | 102,034    | 1,134,544      | 546,959    | 179,699    | 178,638    | 30  |
| 50,043,844     | 27,493,878 | 12,940,862 | 14,142,239 | 61,899,298     | 34,802,350 | 18,095,404 | 20,171,000 |     |
| 727,020        | 441,051    | 313,493    | 328,085    | 856,880        | 556,352    | 428,232    | 518,965    | 31  |
| 185,515        | 125,289    | 116,696    | 293,912    | 454,267        | 330,160    | 341,163    | 560,248    | 32  |
| 138,162        | 85,440     | 57,828     | 117,715    | 271,550        | 167,198    | 144,723    | 229,525    |     |
| 1,043,620      | 735,872    | 374,158    | 651,578    | 1,070,717      | 750,643    | 387,627    | 671,200    | 33  |
| 200,247        | 147,389    | 83,604     | 107,462    | 208,230        | 155,066    | 89,181     | 114,834    |     |
| 1,526,678      | 933,668    | 491,503    | 967,405    | 1,708,942      | 1,111,402  | 596,671    | 1,079,884  | 34  |
| 700,033        | 369,499    | 52,798     | 33,650     | 1,228,860      | 824,480    | 211,851    | 128,402    | 35  |
| 295,820        | 191,144    | 76,951     | 90,477     | 4,399,784      | 3,557,152  | 3,173,160  | 2,899,367  | 36  |
| 389,623        | 513,047    | 295,407    | 212,921    | 390,259        | 518,099    | 311,222    | 235,859    | 37  |
| 191,477        | 77,237     | 37,231     | 24,135     | 546,853        | 336,302    | 151,221    | 114,392    | 38  |
| 240,178        | 172,308    | 118,157    | 42,061     | 292,063        | 216,792    | 141,794    | 51,782     | 39  |
| 4,024,077      | 2,756,898  | 1,441,180  | 1,877,971  | 9,432,135      | 7,195,457  | 5,072,380  | 5,178,936  |     |

## 13.—Principal Imports into Canada for Consumption from United

| No.                                           | Item.                                            | United Kingdom. |            |            |            |
|-----------------------------------------------|--------------------------------------------------|-----------------|------------|------------|------------|
|                                               |                                                  | 1931.           | 1932.      | 1933.      | 1934.      |
| <b>VII. Non-Metallic Minerals—concluded.</b>  |                                                  |                 |            |            |            |
| <b>Coal and Coal Products—</b>                |                                                  |                 |            |            |            |
| 1                                             | Coal, anthracite..... ton                        | 918,252         | 886,938    | 1,456,715  | 1,576,562  |
|                                               | \$                                               | 5,658,951       | 4,764,291  | 7,283,189  | 7,939,706  |
| 2                                             | Coal, bituminous..... ton                        | 145,375         | 118,998    | 357,447    | 357,680    |
|                                               | \$                                               | 485,562         | 330,078    | 851,169    | 880,758    |
| 3                                             | Coal for ships' stores..... ton                  | —               | —          | —          | —          |
| 4                                             | Coal tar, crude..... gal.                        | 504             | 1,750      | 500        | 10,812     |
|                                               | \$                                               | 290             | 359        | 204        | 821        |
| 5                                             | Carbolic oil..... gal.                           | 13,059          | 749,730    | 247,761    | 18,051     |
|                                               | \$                                               | 6,308           | 77,983     | 20,392     | 3,313      |
| 6                                             | Coke..... ton                                    | 16,443          | 2,957      | 40,399     | 22,120     |
|                                               | \$                                               | 65,806          | 16,342     | 153,268    | 76,143     |
|                                               | Totals, Coal and Coal Products <sup>1</sup> .... | \$ 6,217,375    | 5,191,735  | 8,309,104  | 8,901,363  |
| <b>Glass and Glassware—</b>                   |                                                  |                 |            |            |            |
| 7                                             | Carboys, bottles, jars, milk bottles, etc..      | \$ 77,854       | 77,112     | 43,909     | 65,161     |
| 8                                             | Tableware.....                                   | \$ 59,831       | 50,670     | 33,841     | 47,260     |
| 9                                             | Incandescent lamp bulbs and tubing for..         | \$ —            | 99         | —          | —          |
| 10                                            | Lamp chimneys, shades and globes.....            | \$ 8,337        | 1,558      | 10,128     | 7,553      |
| 11                                            | Window glass, common.....sq.ft.                  | 1,830,095       | 590,331    | 1,491,822  | 7,247,061  |
|                                               | \$                                               | 89,953          | 29,947     | 55,913     | 232,600    |
| 12                                            | Plate glass, not over 7 sq.ft.....sq.ft.         | 552,532         | 429,743    | 293,292    | 502,168    |
|                                               | \$                                               | 177,887         | 123,753    | 84,507     | 148,956    |
| 13                                            | Plate glass, other, not bevelled.....sq.ft.      | 647,256         | 434,068    | 294,884    | 308,734    |
|                                               | \$                                               | 287,476         | 196,239    | 135,536    | 149,060    |
|                                               | Totals, Glass and Glassware <sup>1</sup> .....   | \$ 988,124      | 670,139    | 502,921    | 845,266    |
| 14                                            | Graphite and its products.....                   | \$ 38,625       | 32,119     | 29,657     | 35,517     |
| <b>Petroleum, Asphalt and Their Products—</b> |                                                  |                 |            |            |            |
| 15                                            | Asphalt, solid..... cwt.                         | —               | 5          | 159        | 24         |
|                                               | \$                                               | —               | 28         | 412        | 41         |
| 16                                            | Crude Petroleum—                                 |                 |            |            |            |
|                                               | For refining..... gal.                           | —               | —          | —          | —          |
| 17                                            | Other, .8235 specific gravity and heavier gal.   | —               | —          | —          | 4,200      |
|                                               | \$                                               | —               | —          | —          | 210        |
| 18                                            | Fuel oil for ships' stores..... gal.             | —               | —          | —          | —          |
|                                               | \$                                               | —               | —          | —          | 210        |
|                                               | Totals, Crude Petroleum.....                     | \$ —            | —          | —          | —          |
| 19                                            | Coal, and kerosene oil, refined..... gal.        | 155             | —          | —          | —          |
|                                               | \$                                               | 24              | —          | —          | —          |
| 20                                            | Gasolene, casinghead, for blending..... gal.     | —               | —          | —          | —          |
|                                               | \$                                               | —               | —          | —          | —          |
| 21                                            | Gasolene, n.o.p..... gal.                        | —               | 800        | —          | —          |
|                                               | \$                                               | —               | 381        | —          | —          |
| 22                                            | Lubricating oils..... gal.                       | 352,890         | 263,340    | 123,913    | 97,872     |
|                                               | \$                                               | 235,429         | 150,673    | 67,405     | 50,909     |
|                                               | Totals, Petroleum, Asphalt, etc. <sup>1</sup> .. | \$ 263,580      | 168,663    | 81,409     | 66,791     |
| <b>Stone and Its Products—</b>                |                                                  |                 |            |            |            |
| 23                                            | Abrasives.....                                   | \$ 125,740      | 97,137     | 78,533     | 50,593     |
| 24                                            | Building and paving stone.....                   | \$ 97,781       | 48,872     | 41,336     | 15,514     |
| 25                                            | Phosphate rock..... cwt.                         | —               | —          | —          | —          |
| 26                                            | Cement..... cwt.                                 | 315,659         | 46,145     | 38,397     | 44,364     |
|                                               | \$                                               | 361,426         | 55,368     | 18,936     | 16,089     |
| 27                                            | Silica sand..... cwt.                            | —               | 392        | 123        | 441        |
|                                               | \$                                               | —               | 324        | 256        | 799        |
| 28                                            | Whiting..... cwt.                                | 140,425         | 127,386    | 105,790    | 126,382    |
|                                               | \$                                               | 77,402          | 61,909     | 50,231     | 53,290     |
|                                               | Totals, Stone and Its Products <sup>1</sup> .... | \$ 727,312      | 316,973    | 237,573    | 193,240    |
| 29                                            | Carbons, electric.....                           | \$ 999          | 377        | 981        | 1,939      |
| 30                                            | Diamonds, unset.....                             | \$ 413,051      | 155,577    | 114,400    | 62,399     |
| 31                                            | Salt..... cwt.                                   | 419,546         | 493,584    | 579,899    | 599,631    |
|                                               | \$                                               | 185,756         | 221,030    | 261,102    | 244,413    |
| 32                                            | Sulphur..... cwt.                                | 2               | 157        | 68         | 196        |
|                                               | \$                                               | 9               | 414        | 185        | 666        |
|                                               | Totals, Non-Metallic Minerals <sup>1</sup> ..... | \$ 12,902,472   | 10,286,241 | 12,582,165 | 13,229,645 |

<sup>1</sup>Totals include other items not specified.

DETAILED IMPORTS FOR CONSUMPTION

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Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |             |             |             | All Countries. |               |             |               | No. |
|----------------|-------------|-------------|-------------|----------------|---------------|-------------|---------------|-----|
| 1931.          | 1932.       | 1933.       | 1934.       | 1931.          | 1932.         | 1933.       | 1934.         |     |
| 2,731,862      | 2,069,577   | 1,558,819   | 1,558,781   | 3,946,987      | 3,022,519     | 3,068,423   | 3,135,351     | 1   |
| 20,145,856     | 15,294,560  | 10,947,796  | 9,937,742   | 27,729,452     | 20,342,736    | 18,399,913  | 17,877,489    | 2   |
| 12,854,544     | 9,692,076   | 7,326,532   | 7,811,916   | 12,999,942     | 9,811,074     | 7,683,981   | 8,169,740     | 3   |
| 23,296,206     | 14,366,070  | 9,304,081   | 9,987,474   | 23,782,073     | 14,696,148    | 10,155,274  | 10,868,735    | 4   |
| 346,579        | 275,545     | 290,357     | 347,625     | 346,579        | 275,545       | 290,357     | 347,625       | 5   |
| 655,159        | 433,446     | 423,925     | 445,972     | 655,159        | 433,446       | 423,925     | 445,972       | 6   |
| 3,932,619      | 1,517,275   | 1,674,856   | 436,499     | 3,938,067      | 1,519,025     | 1,675,356   | 447,311       | 7   |
| 248,480        | 104,970     | 87,159      | 31,205      | 250,023        | 105,329       | 87,303      | 32,026        | 8   |
| 957,888        | 778,697     | 86,701      | 70,145      | 1,917,014      | 2,045,935     | 655,086     | 88,196        | 9   |
| 179,847        | 130,005     | 22,531      | 11,830      | 316,999        | 262,618       | 74,262      | 15,143        | 10  |
| 993,031        | 638,583     | 608,627     | 722,788     | 1,001,445      | 641,766       | 649,081     | 745,162       | 11  |
| 5,202,394      | 3,392,904   | 2,952,925   | 3,528,641   | 5,268,200      | 3,410,256     | 3,106,455   | 3,605,843     | 12  |
| 49,843,127     | 33,787,619  | 23,755,958  | 23,971,751  | 58,117,809     | 39,320,214    | 32,265,615  | 32,874,722    | 13  |
| 1,149,194      | 780,986     | 448,822     | 374,740     | 1,379,610      | 974,667       | 606,510     | 563,600       | 14  |
| 613,891        | 502,163     | 282,382     | 275,801     | 1,019,453      | 792,095       | 490,110     | +93,834       | 15  |
| 501,727        | 528,272     | 422,388     | 398,515     | 506,735        | 528,525       | 422,388     | 398,515       | 16  |
| 356,898        | 223,735     | 130,353     | 95,258      | 419,077        | 271,676       | 177,211     | 132,706       | 17  |
| 185,105        | 251,087     | 58,298      | 30,194      | 35,002,296     | 21,765,048    | 24,254,560  | 23,243,659    | 18  |
| 20,468         | 13,779      | 2,860       | 2,153       | 1,118,965      | 649,745       | 653,656     | 623,700       | 19  |
| 1,475,860      | 1,283,216   | 899,035     | 1,651,471   | 2,575,535      | 1,861,062     | 1,273,382   | 2,182,803     | 20  |
| 485,545        | 437,633     | 328,170     | 521,790     | 817,286        | 608,300       | 428,280     | 678,334       | 21  |
| 427,970        | 333,406     | 205,335     | 394,043     | 1,568,283      | 1,035,399     | 682,154     | 873,786       | 22  |
| 165,366        | 131,509     | 75,038      | 130,277     | 664,661        | 443,487       | 276,401     | 352,967       | 23  |
| 4,392,617      | 3,453,191   | 2,241,144   | 2,440,371   | 7,875,293      | 5,744,616     | 4,069,147   | 4,365,249     | 24  |
| 65,057         | 91,723      | 61,961      | 73,056      | 103,745        | 124,343       | 92,537      | 109,822       | 25  |
| 808,045        | 674,621     | 232,883     | 86,365      | 823,654        | 674,826       | 234,114     | 86,485        | 26  |
| 601,548        | 479,870     | 171,485     | 103,883     | 611,464        | 480,148       | 173,513     | 104,188       | 27  |
| 667,240,169    | 713,833,943 | 635,854,437 | 712,594,828 | 994,384,918    | 1,016,355,361 | 845,587,999 | 1,029,545,239 | 28  |
| 25,169,919     | 14,694,171  | 18,146,777  | 15,979,009  | 36,220,413     | 22,132,665    | 25,009,231  | 23,857,987    | 29  |
| 49,410,723     | 33,235,429  | 21,553,421  | 19,478,084  | 61,896,977     | 59,677,494    | 51,598,595  | 36,786,437    | 30  |
| 1,724,881      | 1,127,101   | 860,398     | 632,258     | 2,240,276      | 1,975,687     | 1,820,723   | 1,263,675     | 31  |
| 25,310,182     | 28,365,547  | 23,802,389  | 24,339,038  | 33,799,370     | 36,178,989    | 29,521,703  | 27,369,216    | 32  |
| 644,998        | 762,584     | 687,762     | 662,338     | 875,743        | 922,649       | 793,251     | 714,768       | 33  |
| 27,539,798     | 16,583,856  | 19,694,937  | 17,273,605  | 39,336,432     | 25,031,001    | 27,623,205  | 25,836,430    | 34  |
| 4,815,777      | 3,016,166   | 1,650,653   | 1,608,194   | 4,815,932      | 3,016,166     | 1,653,944   | 1,608,226     | 35  |
| 329,693        | 184,138     | 126,765     | 113,966     | 329,714        | 184,138       | 127,590     | 113,974       | 36  |
| 14,793,714     | 31,357,459  | 26,318,485  | 41,581,921  | 14,793,714     | 31,357,459    | 26,318,485  | 44,416,080    | 37  |
| 1,182,165      | 2,022,281   | 1,526,791   | 2,027,838   | 1,182,165      | 2,022,281     | 1,526,791   | 2,790,414     | 38  |
| 129,718,284    | 65,222,912  | 46,612,954  | 12,776,327  | 142,011,931    | 84,465,498    | 67,546,273  | 15,108,093    | 39  |
| 13,608,320     | 6,694,785   | 5,282,609   | 1,220,146   | 15,008,613     | 7,729,425     | 6,457,054   | 1,329,095     | 40  |
| 13,855,003     | 13,043,511  | 10,840,539  | 9,846,227   | 16,213,717     | 13,343,134    | 10,978,826  | 9,954,828     | 41  |
| 4,622,583      | 3,231,655   | 2,841,775   | 2,537,721   | 4,860,168      | 3,395,821     | 2,915,319   | 2,593,587     | 42  |
| 49,129,873     | 30,264,638  | 30,361,936  | 24,504,053  | 62,659,658     | 39,986,222    | 39,623,104  | 33,368,473    | 43  |
| 2,101,184      | 854,747     | 561,138     | 1,164,928   | 2,258,104      | 995,313       | 651,734     | 1,234,385     | 44  |
| 460,812        | 190,954     | 43,133      | 34,997      | 679,316        | 335,183       | 148,774     | 104,673       | 45  |
| 1,221,426      | 2,861,698   | 631,385     | 356,528     | 1,221,426      | 3,022,015     | 927,590     | 356,528       | 46  |
| 330,459        | 630,444     | 164,398     | 72,129      | 330,459        | 666,154       | 237,024     | 72,129        | 47  |
| 130,466        | 78,693      | 19,853      | 11,668      | 447,075        | 126,129       | 78,155      | 59,867        | 48  |
| 143,380        | 80,454      | 25,553      | 18,020      | 505,112        | 136,517       | 51,434      | 36,320        | 49  |
| 2,510,946      | 1,536,247   | 984,093     | 1,287,004   | 3,103,913      | 2,006,238     | 1,151,743   | 1,423,947     | 50  |
| 263,690        | 187,245     | 139,043     | 153,835     | 328,191        | 228,062       | 155,357     | 172,048       | 51  |
| 80,883         | 43,559      | 29,626      | 47,196      | 245,566        | 199,598       | 171,006     | 209,431       | 52  |
| 50,850         | 32,906      | 20,678      | 27,320      | 139,683        | 107,860       | 85,480      | 98,412        | 53  |
| 5,021,792      | 2,930,697   | 1,386,820   | 1,838,334   | 6,356,004      | 3,793,045     | 1,901,953   | 2,201,137     | 54  |
| 404,877        | 325,315     | 253,171     | 283,091     | 436,733        | 350,855       | 261,812     | 287,868       | 55  |
| 44,016         | 11,986      | 5,523       | 65,581      | 1,797,225      | 711,034       | 326,563     | 388,126       | 56  |
| 1,992,215      | 1,222,725   | 712,554     | 1,067,296   | 2,526,003      | 2,540,772     | 2,015,010   | 2,780,338     | 57  |
| 305,079        | 379,586     | 209,393     | 259,723     | 658,446        | 730,400       | 586,490     | 659,535       | 58  |
| 3,497,699      | 2,411,969   | 2,122,572   | 2,853,896   | 3,498,462      | 2,415,122     | 2,128,505   | 2,858,749     | 59  |
| 3,101,146      | 2,221,641   | 2,044,061   | 2,551,591   | 3,102,740      | 2,226,934     | 2,054,563   | 2,559,159     | 60  |
| 118,984,418    | 77,871,155  | 62,921,986  | 58,923,311  | 153,578,658    | 102,147,347   | 87,658,005  | 83,396,761    | 61  |

## 13.—Principal Imports into Canada for Consumption from United

| No.                                                   | Item.                                                | United Kingdom. |           |           |           |
|-------------------------------------------------------|------------------------------------------------------|-----------------|-----------|-----------|-----------|
|                                                       |                                                      | 1931.           | 1932.     | 1933.     | 1934.     |
| <b>VIII. Chemicals and Allied Products.</b>           |                                                      |                 |           |           |           |
| 1                                                     | Acids..... \$                                        | 344,047         | 254,454   | 228,050   | 371,149   |
| 2                                                     | Cellulose products..... \$                           | 58,766          | 71,877    | 83,235    | 100,659   |
| 3                                                     | Drugs and medicinal preparations..... \$             | 819,302         | 854,255   | 815,866   | 834,851   |
| Dyeing and Tanning Materials—                         |                                                      |                 |           |           |           |
| 4                                                     | Coal tar and aniline dyes..... lb.                   | 171,672         | 185,360   | 488,731   | 774,289   |
|                                                       | \$                                                   | 105,046         | 170,833   | 293,212   | 449,957   |
| 5                                                     | Oak, oak bark, quebracho extracts..... lb.           | 257,189         | 173,780   | 348,540   | 172,118   |
|                                                       | \$                                                   | 8,779           | 5,543     | 13,517    | 6,179     |
|                                                       | Totals, Dyeing and Tanning Materials <sup>1</sup> \$ | 188,742         | 275,784   | 440,119   | 637,291   |
| 6                                                     | Explosives..... \$                                   | 47,666          | 40,657    | 16,872    | 20,700    |
| Fertilizers, n.o.p.—                                  |                                                      |                 |           |           |           |
| 7                                                     | Ammonia, sulphate of..... cwt.                       | 94              | 4,425     | 365       | 1         |
|                                                       | \$                                                   | 400             | 5,287     | 750       | 7         |
| 8                                                     | Potash, muriate of..... cwt.                         | —               | —         | —         | —         |
|                                                       | \$                                                   | —               | —         | —         | —         |
| 9                                                     | Soda nitrate..... cwt.                               | 2,318           | 560       | 103       | 215       |
|                                                       | \$                                                   | 4,953           | 919       | 359       | 619       |
| 10                                                    | Superphosphates..... cwt.                            | —               | —         | 2         | —         |
|                                                       | \$                                                   | —               | —         | 44        | —         |
|                                                       | Totals, Fertilizers, n.o.p. <sup>1</sup> ..... \$    | 53,385          | 20,521    | 7,273     | 12,508    |
| Paints, Pigments and Varnishes—                       |                                                      |                 |           |           |           |
| 11                                                    | Litharge..... cwt.                                   | 5,859           | 9,967     | 9,005     | 9,577     |
|                                                       | \$                                                   | 40,511          | 63,876    | 52,401    | 53,501    |
| 12                                                    | Lead, red..... lb.                                   | 588,275         | 689,120   | 318,721   | 478,714   |
|                                                       | \$                                                   | 45,654          | 43,748    | 18,861    | 24,725    |
| 13                                                    | Black, carbon..... lb.                               | 14,644          | 10,960    | 4,676     | 1,110     |
|                                                       | \$                                                   | 698             | 702       | 385       | 189       |
| 14                                                    | Lithopone..... lb.                                   | 1,660,360       | 1,986,951 | 2,503,820 | 6,557,250 |
|                                                       | \$                                                   | 67,393          | 68,676    | 83,419    | 218,938   |
| 15                                                    | Oxide of cobalt, etc..... lb.                        | 79,400          | 43,758    | 71,014    | 87,128    |
|                                                       | \$                                                   | 21,804          | 9,594     | 21,175    | 36,532    |
| 16                                                    | Oxides, fireproofs..... lb.                          | 1,212,715       | 1,147,832 | 1,096,368 | 1,051,392 |
|                                                       | \$                                                   | 102,074         | 125,938   | 146,194   | 138,778   |
| 17                                                    | Zinc, white..... lb.                                 | 1,725,426       | 3,367,105 | 5,499,101 | 248,573   |
|                                                       | \$                                                   | 85,082          | 143,709   | 226,954   | 414,988   |
| 18                                                    | Liquid fillers, etc..... gal.                        | 97,732          | 39,857    | 31,721    | 26,493    |
|                                                       | \$                                                   | 159,369         | 58,953    | 43,029    | 33,945    |
| 19                                                    | Varnish, lacquers, etc..... gal.                     | 34,212          | 11,733    | 10,342    | 10,849    |
|                                                       | \$                                                   | 62,151          | 22,036    | 20,393    | 19,323    |
|                                                       | Totals, Paints, Pigments, etc. <sup>1</sup> ..... \$ | 718,692         | 669,955   | 752,317   | 1,108,280 |
| 20                                                    | Perfumery, cosmetics, etc..... \$                    | 262,220         | 173,710   | 168,583   | 101,686   |
| Soaps                                                 |                                                      |                 |           |           |           |
| 21                                                    | Castile..... lb.                                     | 5,049           | 10,383    | 3,981     | 34,156    |
|                                                       | \$                                                   | 432             | 755       | 396       | 2,785     |
| 22                                                    | Laundry, common..... lb.                             | 62,265          | 71,374    | 58,086    | 395,247   |
|                                                       | \$                                                   | 5,577           | 6,507     | 4,817     | 26,688    |
|                                                       | Totals, Soaps <sup>1</sup> ..... \$                  | 139,669         | 103,397   | 115,817   | 80,601    |
| Chemicals, Inorganic, n.o.p.—                         |                                                      |                 |           |           |           |
| 23                                                    | Sulphate of alumina..... cwt.                        | 34,153          | 43,893    | 86,365    | 57,873    |
|                                                       | \$                                                   | 30,879          | 43,420    | 86,219    | 54,627    |
| 24                                                    | Ammonia, nitrate of..... lb.                         | 5,175,750       | 1,120,000 | 456,004   | 907,776   |
|                                                       | \$                                                   | 184,950         | 43,070    | 17,666    | 34,155    |
| 25                                                    | Sal ammoniac..... lb.                                | 216,067         | 225,055   | 276,126   | 1,233,293 |
|                                                       | \$                                                   | 8,529           | 8,304     | 11,693    | 46,252    |
| 26                                                    | Copper sulphate..... lb.                             | 3,696,615       | 1,226,478 | 2,295,577 | 4,552,976 |
|                                                       | \$                                                   | 164,132         | 46,139    | 78,323    | 144,857   |
| 27                                                    | Bichloride of tin..... lb.                           | 288,944         | 398,551   | 351,571   | 86,546    |
|                                                       | \$                                                   | 73,639          | 73,102    | 60,259    | 16,151    |
| 28                                                    | Compounds of tetra-ethyl lead..... lb.               | —               | —         | —         | —         |
|                                                       | \$                                                   | —               | —         | —         | —         |
| 29                                                    | Chlorine, liquid..... lb.                            | —               | 11,200    | —         | —         |
|                                                       | \$                                                   | —               | 580       | —         | —         |
| 30                                                    | Calcium chloride..... cwt.                           | 40,282          | 2,924     | 48,053    | 48,055    |
|                                                       | \$                                                   | 51,688          | 3,871     | 62,446    | 63,352    |
| 31                                                    | Chloride of lime..... cwt.                           | 23,831          | 20,921    | 24,255    | 26,301    |
|                                                       | \$                                                   | 34,569          | 27,319    | 39,429    | 41,254    |
| <sup>1</sup> Totals include other items not specified |                                                      |                 |           |           |           |

<sup>1</sup>Totals include other items not specified.



## Kingdom, United States and All Countries, fiscal years 1931-34—continued.

| United States. |            |            |            | All Countries. |            |            |            | No. |
|----------------|------------|------------|------------|----------------|------------|------------|------------|-----|
| 1931.          | 1932.      | 1933.      | 1934.      | 1931.          | 1932.      | 1933.      | 1934.      |     |
| 506,300        | 526,225    | 357,794    | 538,872    | 1,062,907      | 985,807    | 807,321    | 1,105,116  | 1   |
| 2,104,200      | 2,210,417  | 1,684,326  | 1,466,430  | 2,470,522      | 2,631,038  | 2,174,126  | 1,655,043  | 2   |
| 2,053,618      | 1,465,898  | 1,131,925  | 1,067,087  | 3,802,875      | 3,104,482  | 2,577,291  | 2,621,563  | 3   |
| 2,137,077      | 2,281,991  | 2,080,899  | 2,462,949  | 3,930,498      | 4,067,175  | 4,249,514  | 5,462,541  | 4   |
| 1,006,864      | 1,086,690  | 995,047    | 1,106,691  | 2,096,667      | 2,255,217  | 2,388,185  | 3,424,382  | 5   |
| 21,629,557     | 22,833,901 | 19,650,998 | 25,451,463 | 22,341,556     | 25,509,338 | 23,847,941 | 31,758,810 |     |
| 743,011        | 657,685    | 510,501    | 614,834    | 774,775        | 738,346    | 624,239    | 775,920    |     |
| 1,997,993      | 2,019,744  | 1,768,012  | 2,018,283  | 3,285,908      | 3,445,810  | 3,510,598  | 4,843,532  |     |
| 355,625        | 290,385    | 171,236    | 280,171    | 434,422        | 353,795    | 208,833    | 318,107    | 6   |
| 47,329         | 85,397     | 224        | 32,589     | 77,432         | 240,420    | 280,197    | 119,644    | 7   |
| 96,902         | 142,941    | 1,719      | 40,760     | 150,950        | 341,401    | 284,332    | 137,729    |     |
| 150,093        | 126,654    | 6,413      | 122,554    | 652,504        | 526,017    | 276,215    | 289,900    | 8   |
| 303,488        | 229,763    | 13,542     | 211,008    | 1,186,274      | 887,830    | 440,963    | 514,723    |     |
| 242,769        | 239,359    | 282,079    | 350,528    | 543,375        | 304,819    | 323,062    | 381,902    | 9   |
| 512,194        | 477,154    | 413,183    | 461,301    | 1,090,939      | 621,769    | 477,750    | 506,015    |     |
| 2,060,963      | 1,552,822  | 431,873    | 571,439    | 2,337,660      | 1,774,820  | 1,102,983  | 1,075,546  | 10  |
| 1,093,925      | 748,617    | 207,124    | 260,196    | 1,223,048      | 833,009    | 480,319    | 500,322    |     |
| 2,991,808      | 1,782,462  | 664,380    | 1,037,806  | 5,205,318      | 3,367,752  | 1,942,712  | 1,989,498  |     |
| 34,814         | 12,326     | 13,604     | 6,357      | 41,743         | 22,428     | 22,706     | 16,024     | 11  |
| 225,624        | 70,883     | 67,291     | 34,843     | 273,136        | 135,612    | 120,124    | 88,741     |     |
| 820,670        | 455,818    | 260,710    | 48,892     | 1,480,080      | 1,165,979  | 611,315    | 530,966    | 12  |
| 60,774         | 31,807     | 14,650     | 4,028      | 111,183        | 76,878     | 35,259     | 28,894     |     |
| 11,373,523     | 10,120,314 | 6,276,110  | 10,750,945 | 11,436,610     | 10,199,327 | 6,285,226  | 10,775,975 | 13  |
| 488,660        | 345,714    | 203,639    | 350,695    | 494,623        | 353,082    | 204,473    | 351,168    |     |
| 6,367,105      | 7,439,738  | 3,691,763  | 2,208,571  | 15,062,103     | 14,532,280 | 14,046,315 | 12,071,365 | 14  |
| 301,544        | 330,651    | 173,805    | 98,074     | 667,500        | 591,901    | 487,520    | 432,008    |     |
| 165,697        | 171,114    | 67,184     | 58,142     | 245,785        | 221,752    | 148,971    | 161,050    | 15  |
| 50,686         | 46,333     | 17,891     | 23,011     | 72,648         | 57,026     | 41,281     | 61,967     |     |
| 5,346,176      | 4,404,260  | 2,863,078  | 4,103,534  | 6,952,908      | 5,747,494  | 4,192,433  | 5,477,309  | 16  |
| 515,473        | 519,774    | 369,254    | 457,830    | 653,725        | 669,628    | 537,808    | 641,425    |     |
| 8,625,534      | 4,681,516  | 830,247    | 305,501    | 13,899,949     | 10,661,623 | 8,956,975  | 554,074    | 17  |
| 559,465        | 318,398    | 58,692     | 41,866     | 838,865        | 580,106    | 381,887    | 489,173    |     |
| 221,662        | 136,010    | 48,427     | 61,405     | 328,662        | 180,740    | 85,017     | 89,435     | 18  |
| 330,870        | 193,903    | 86,227     | 94,095     | 507,426        | 262,398    | 137,994    | 130,323    |     |
| 86,511         | 57,822     | 47,886     | 63,365     | 121,249        | 70,486     | 58,642     | 75,933     | 19  |
| 154,883        | 103,348    | 89,272     | 100,824    | 218,341        | 127,900    | 110,735    | 124,917    |     |
| 3,000,924      | 2,192,167  | 1,231,947  | 1,353,655  | 4,368,048      | 3,291,342  | 2,412,204  | 2,723,858  |     |
| 726,327        | 555,903    | 284,877    | 201,958    | 1,353,919      | 1,005,066  | 611,838    | 436,309    | 20  |
| 30,154         | 9,557      | 31,163     | 12,457     | 1,192,383      | 1,299,043  | 1,012,686  | 936,694    | 21  |
| 3,819          | 1,204      | 2,298      | 1,573      | 85,548         | 79,305     | 58,787     | 61,632     |     |
| 10,540,415     | 7,084,889  | 7,615,428  | 2,135,729  | 10,648,446     | 7,183,072  | 7,722,493  | 2,598,412  | 22  |
| 782,940        | 582,291    | 581,355    | 142,156    | 791,680        | 560,378    | 589,111    | 172,773    |     |
| 957,897        | 656,566    | 665,840    | 219,355    | 1,243,680      | 889,342    | 870,080    | 381,189    |     |
| 418,970        | 410,390    | 378,276    | 465,852    | 473,341        | 478,589    | 479,712    | 530,400    | 23  |
| 486,205        | 504,656    | 474,019    | 509,290    | 541,079        | 579,014    | 579,166    | 569,675    |     |
| 111,423        | 39,694     | 112,922    | 51,976     | 5,320,674      | 1,262,155  | 712,018    | 1,064,147  | 24  |
| 5,495          | 2,115      | 4,814      | 2,645      | 191,978        | 48,873     | 29,014     | 39,060     |     |
| 628,290        | 333,438    | 321,917    | 17,024     | 2,606,721      | 1,797,927  | 1,577,339  | 1,728,460  | 25  |
| 27,561         | 17,177     | 18,592     | 1,256      | 95,687         | 65,529     | 65,159     | 60,940     |     |
| 3,017,702      | 1,484,877  | 1,299,868  | 484,461    | 7,887,451      | 4,421,995  | 4,058,240  | 5,061,806  | 26  |
| 127,624        | 59,804     | 38,460     | 18,306     | 340,507        | 160,701    | 129,131    | 163,796    |     |
| 529,022        | 543,192    | 448,169    | 84,483     | 817,966        | 943,948    | 1,134,112  | 560,497    | 27  |
| 95,878         | 91,547     | 68,637     | 19,418     | 169,517        | 165,158    | 173,003    | 114,676    |     |
| 379,705        | 1,301,892  | 1,723,737  | 1,398,928  | 379,705        | 1,301,892  | 1,723,737  | 1,398,928  | 28  |
| 418,358        | 1,468,517  | 1,681,699  | 981,064    | 418,358        | 1,468,517  | 1,681,699  | 981,064    |     |
| 7,868,440      | 7,149,605  | 6,120,737  | 12,581,630 | 7,868,440      | 7,160,805  | 6,120,737  | 12,581,630 | 29  |
| 194,795        | 171,876    | 129,544    | 253,204    | 194,795        | 172,456    | 129,544    | 253,204    |     |
| 404,407        | 448,440    | 325,767    | 292,620    | 470,217        | 493,095    | 390,900    | 354,546    | 30  |
| 453,694        | 506,524    | 423,722    | 318,754    | 526,265        | 539,875    | 498,790    | 391,973    |     |
| 14,158         | 17,116     | 12,737     | 19,962     | 42,204         | 48,925     | 42,036     | 47,889     | 31  |
| 32,510         | 36,290     | 30,373     | 35,158     | 71,598         | 76,090     | 76,545     | 80,300     |     |

## 13.—Principal Imports into Canada for Consumption from United

|                                                  |                                                               | United Kingdom. |             |            |             |
|--------------------------------------------------|---------------------------------------------------------------|-----------------|-------------|------------|-------------|
| No.                                              | Item.                                                         | 1931.           | 1932.       | 1933.      | 1934.       |
| <b>VIII. Chemicals and Allied Products—conc.</b> |                                                               |                 |             |            |             |
| Chemicals, Inorganic, n.o.p.—concluded.          |                                                               |                 |             |            |             |
| 1                                                | Potash compounds..... lb.                                     | 353,442         | 431,394     | 512,339    | 412,285     |
|                                                  | \$                                                            | 60,309          | 70,678      | 91,564     | 78,271      |
| 2                                                | Soda compounds..... lb.                                       | 17,483,925      | 17,328,410  | 20,201,003 | 20,074,916  |
|                                                  | \$                                                            | 505,273         | 527,059     | 660,068    | 787,664     |
| 3                                                | Acid phosphate..... lb.                                       | 32,256          | 77,662      | 384,002    | 191,093     |
|                                                  | \$                                                            | 2,170           | 4,717       | 27,760     | 15,222      |
|                                                  | Totals, Chemicals, Inorganic, n.o.p. <sup>1</sup> ..... \$    | 1,246,646       | 983,682     | 1,871,492  | 1,589,730   |
| 4                                                | Glycerine..... lb.                                            | 1,540,496       | 513,799     | 78,171     | 114,010     |
|                                                  | \$                                                            | 139,219         | 38,910      | 7,300      | 12,655      |
| 5                                                | Ethylene glycol..... lb.                                      | 345,603         | 399,230     | 201,147    | —           |
|                                                  | \$                                                            | 56,561          | 63,293      | 31,889     | —           |
|                                                  | Totals, Chemicals and Allied Products <sup>1</sup> ..... \$   | 4,601,666       | 4,096,696   | 4,583,344  | 5,662,584   |
| <b>IX. Miscellaneous Commodities.</b>            |                                                               |                 |             |            |             |
| Amusement and Sporting Goods—                    |                                                               |                 |             |            |             |
| 6                                                | Films, photographers'..... \$                                 | 18,271          | 4,754       | 552        | 3,507       |
| 7                                                | Films, for motion pictures..... ft.                           | 1,068,543       | 1,316,449   | 1,366,378  | 1,653,047   |
|                                                  | \$                                                            | 87,778          | 104,306     | 109,240    | 131,717     |
| 8                                                | Fishing tackle, sportsmen's..... \$                           | 90,991          | 106,542     | 102,416    | 120,932     |
| 9                                                | Toys and dolls..... \$                                        | 241,447         | 188,184     | 165,275    | 143,918     |
|                                                  | Totals, Amusem't and Sporting Goods <sup>1</sup> ..... \$     | 449,291         | 514,271     | 507,711    | 504,481     |
| 10                                               | Brushes..... \$                                               | 158,978         | 123,642     | 99,188     | 105,405     |
| 11                                               | Containers..... \$                                            | 1,663,835       | 1,789,395   | 1,321,591  | 1,155,568   |
| Household and Personal Equipment—                |                                                               |                 |             |            |             |
| 12                                               | Boots and shoes, with canvas uppers..... pr.                  | 4,207           | 496         | 1,849      | 35,661      |
|                                                  | \$                                                            | 2,216           | 1,012       | 2,683      | 11,867      |
| 13                                               | Boots and shoes, with felt uppers..... pr.                    | 183,570         | 85,726      | 54,113     | 85,555      |
|                                                  | \$                                                            | 99,756          | 37,700      | 23,247     | 30,867      |
| 14                                               | Buttons..... \$                                               | 22,479          | 14,172      | 11,665     | 13,156      |
| 15                                               | Combs..... \$                                                 | 40,319          | 39,046      | 38,507     | 25,853      |
| 16                                               | Jewellery..... \$                                             | 112,357         | 69,234      | 61,690     | 52,580      |
| 17                                               | Pocketbooks, etc..... \$                                      | 308,238         | 206,346     | 172,974    | 126,726     |
| 18                                               | Refrigerators..... \$                                         | 97              | 171         | 3,685      | 863         |
| 19                                               | Tobacco-pipes..... \$                                         | 232,895         | 160,586     | 113,416    | 103,114     |
| 20                                               | Spectacle frames and parts..... \$                            | 11,091          | 12,709      | 12,240     | 8,178       |
| 21                                               | Toilet and manicure sets..... \$                              | 11,394          | 7,166       | 11,112     | 9,500       |
|                                                  | Totals, Household, etc., Equipment <sup>1</sup> ..... \$      | 1,297,940       | 876,004     | 711,263    | 665,688     |
| 22                                               | Mineral and aerated waters..... \$                            | 15,058          | 14,487      | 7,691      | 3,389       |
| 23                                               | Musical instruments..... \$                                   | 57,513          | 36,250      | 31,762     | 31,531      |
| 24                                               | Scientific and educational equipment..... \$                  | 357,679         | 259,425     | 362,579    | 464,368     |
| 25                                               | Ships and materials for, n.o.p..... \$                        | 203,548         | 113,681     | 29,152     | 5,469       |
| 26                                               | Vehicles, n.o.p..... \$                                       | 315,208         | 218,887     | 79,969     | 63,212      |
| 27                                               | Works of art, n.o.p..... \$                                   | 493,021         | 312,161     | 159,520    | 177,650     |
| Miscellaneous Imports under Special Conditions—  |                                                               |                 |             |            |             |
| 28                                               | Articles for mfr. of fertilizers..... \$                      | 447,665         | 382,679     | 34,605     | 9,271       |
| 29                                               | For army and navy..... \$                                     | 70,125          | 158,757     | 150,623    | 17,249      |
| 30                                               | Re-imported..... \$                                           | 262,046         | 186,017     | 277,406    | 318,975     |
| 31                                               | For exhibition..... \$                                        | 30,243          | 274,569     | 29,105     | 113,785     |
| 32                                               | Ex-warehoused, for ships' stores <sup>2</sup> ..... \$        | 240,467         | 187,500     | 176,411    | 168,940     |
|                                                  | Totals, Imports under Special Cond't'ns <sup>1</sup> ..... \$ | 1,201,569       | 1,327,939   | 945,223    | 727,994     |
| 33                                               | Pencils, lead..... \$                                         | 183,298         | 133,291     | 81,122     | 48,472      |
| 34                                               | Post Office parcels..... \$                                   | 469,167         | 366,449     | 288,126    | 290,042     |
| 35                                               | Precious stones..... \$                                       | 162,115         | 63,677      | 26,949     | 35,318      |
| 36                                               | Settlers' effects..... \$                                     | 683,250         | 396,193     | 232,862    | 175,687     |
| 37                                               | Waste paper, etc..... cwt.                                    | 25,310          | 33,762      | 7,867      | 25,264      |
|                                                  | \$                                                            | 19,256          | 23,005      | 4,160      | 15,869      |
| 38                                               | Wax, vegetable and mineral, n.o.p..... lb.                    | 336,454         | 442,064     | 166,228    | 366,335     |
|                                                  | \$                                                            | 12,636          | 19,543      | 7,446      | 10,408      |
|                                                  | Totals, Miscellaneous Commodities <sup>1</sup> ..... \$       | 8,318,855       | 7,118,729   | 5,217,092  | 4,717,973   |
|                                                  | Grand Totals, Imports for Consumption \$                      | 149,497,392     | 106,371,779 | 86,466,055 | 105,100,764 |

<sup>1</sup>Totals include other items not specified.<sup>2</sup>Exclusive of coal and fuel oil.

## Kingdom, United States and All Countries, fiscal years 1931-34—concluded.

| United States. |             |             |             | All Countries. |             |             |             | No. |
|----------------|-------------|-------------|-------------|----------------|-------------|-------------|-------------|-----|
| 1931.          | 1932.       | 1933.       | 1934.       | 1931.          | 1932.       | 1933.       | 1934.       |     |
| 850,626        | 1,149,956   | 408,917     | 412,745     | 4,808,202      | 5,941,534   | 3,532,221   | 4,505,305   | 1   |
| 95,469         | 93,877      | 51,544      | 42,390      | 419,869        | 453,366     | 318,198     | 404,861     | 2   |
| 152,438,066    | 129,015,030 | 86,254,477  | 83,351,103  | 199,502,335    | 156,207,188 | 113,330,452 | 106,645,098 | 3   |
| 2,399,977      | 2,100,986   | 1,483,661   | 1,342,584   | 3,324,615      | 2,855,881   | 2,337,067   | 2,179,827   | 4   |
| 2,343,994      | 2,440,614   | 2,369,019   | 2,260,149   | 2,376,250      | 2,518,272   | 2,748,012   | 2,459,242   | 5   |
| 167,353        | 189,615     | 194,516     | 168,294     | 169,523        | 194,382     | 222,990     | 183,516     | 6   |
| 5,235,512      | 5,928,963   | 5,031,238   | 4,285,590   | 7,423,622      | 7,672,411   | 6,995,241   | 6,377,076   | 7   |
| 103,520        | 32,405      | 38,460      | 21,170      | 8,469,197      | 3,728,177   | 270,199     | 762,059     | 8   |
| 12,491         | 3,758       | 4,047       | 1,827       | 690,066        | 272,224     | 21,194      | 49,584      | 9   |
| 617,736        | 561,992     | 3,117,908   | 524,289     | 1,261,288      | 1,089,807   | 3,319,055   | 524,289     | 10  |
| 114,042        | 101,116     | 433,214     | 86,490      | 227,292        | 187,871     | 465,103     | 86,490      | 11  |
| 23,201,992     | 20,359,822  | 15,465,420  | 14,492,071  | 35,650,772     | 30,731,345  | 25,455,432  | 25,583,675  | 12  |
| 646,930        | 345,329     | 320,563     | 211,047     | 718,135        | 384,701     | 355,101     | 276,827     | 13  |
| 15,046,579     | 8,315,774   | 4,033,240   | 3,726,981   | 16,572,390     | 10,477,240  | 6,340,214   | 6,134,845   | 14  |
| 1,232,028      | 706,918     | 366,525     | 313,027     | 1,356,224      | 877,981     | 550,295     | 504,622     | 15  |
| 150,036        | 169,593     | 158,156     | 142,279     | 243,400        | 279,345     | 263,640     | 271,687     | 16  |
| 830,634        | 572,500     | 336,438     | 299,325     | 1,981,455      | 1,494,839   | 1,208,584   | 1,065,342   | 17  |
| 2,940,556      | 1,978,666   | 1,289,245   | 1,049,266   | 4,404,455      | 3,349,894   | 2,627,558   | 2,317,166   | 18  |
| 194,659        | 107,531     | 67,462      | 66,208      | 556,179        | 374,999     | 297,224     | 266,242     | 19  |
| 990,145        | 590,118     | 407,067     | 580,189     | 3,826,939      | 3,349,679   | 2,409,441   | 2,339,708   | 20  |
| 12,006         | 11,409      | 13,532      | 8,327       | 18,573         | 90,311      | 168,977     | 266,715     | 21  |
| 12,936         | 8,436       | 10,084      | 4,607       | 16,255         | 30,565      | 53,549      | 79,390      | 22  |
| 46,449         | 32,159      | 11,014      | 828         | 243,341        | 124,440     | 71,524      | 88,842      | 23  |
| 27,255         | 15,670      | 4,182       | 475         | 132,933        | 65,385      | 29,082      | 38,080      | 24  |
| 155,562        | 111,057     | 68,930      | 86,942      | 417,318        | 254,936     | 202,309     | 186,391     | 25  |
| 25,537         | 14,814      | 4,364       | 6,002       | 211,423        | 161,599     | 124,743     | 165,044     | 26  |
| 893,514        | 500,183     | 231,856     | 270,562     | 1,657,303      | 1,091,547   | 670,598     | 585,516     | 27  |
| 314,312        | 220,978     | 137,580     | 157,879     | 961,048        | 650,261     | 499,866     | 437,570     | 28  |
| 2,877,573      | 2,156,450   | 276,298     | 123,803     | 2,377,670      | 2,156,831   | 279,983     | 124,666     | 29  |
| 22,732         | 17,885      | 6,043       | 5,901       | 627,577        | 398,859     | 299,005     | 292,212     | 30  |
| 449,962        | 523,460     | 536,748     | 493,450     | 462,283        | 537,951     | 553,621     | 505,550     | 31  |
| 158,392        | 133,343     | 110,693     | 63,536      | 204,600        | 167,753     | 144,632     | 105,331     | 32  |
| 5,412,719      | 4,441,777   | 1,781,633   | 1,577,894   | 8,771,595      | 6,778,253   | 3,666,807   | 3,320,219   | 33  |
| 64,749         | 44,374      | 32,993      | 18,492      | 193,063        | 152,418     | 105,592     | 73,365      | 34  |
| 1,328,868      | 479,188     | 193,904     | 198,057     | 1,623,037      | 670,970     | 316,004     | 347,596     | 35  |
| 3,275,052      | 2,576,145   | 1,829,557   | 1,478,800   | 4,114,019      | 3,323,829   | 2,558,770   | 2,282,215   | 36  |
| 542,792        | 215,186     | 92,049      | 201,501     | 827,842        | 333,957     | 126,948     | 209,837     | 37  |
| 1,297,370      | 476,940     | 229,556     | 155,380     | 1,665,625      | 790,503     | 367,869     | 221,759     | 38  |
| 1,018,471      | 358,471     | 110,621     | 137,862     | 1,764,240      | 879,265     | 387,666     | 457,502     | 39  |
| 968,166        | 782,836     | 358,208     | 458,794     | 2,073,854      | 1,379,138   | 592,125     | 557,322     | 40  |
| 171            | 2,059       | 1,404       | 5,650       | 73,676         | 161,296     | 155,519     | 31,975      | 41  |
| 2,824,340      | 1,468,598   | 864,129     | 1,283,447   | 4,140,698      | 1,968,251   | 1,312,369   | 1,924,175   | 42  |
| 4,656,760      | 2,254,076   | 2,801,108   | 1,918,649   | 4,697,115      | 2,540,780   | 3,026,455   | 2,045,253   | 43  |
| 196,985        | 147,167     | 116,735     | 91,210      | 482,598        | 361,417     | 317,829     | 295,243     | 44  |
| 9,775,719      | 5,185,801   | 4,536,007   | 4,320,699   | 12,879,847     | 7,186,290   | 5,977,646   | 5,663,495   | 45  |
| 422,827        | 309,014     | 114,677     | 39,171      | 836,142        | 644,768     | 278,424     | 148,176     | 46  |
| 2,976,825      | 2,372,531   | 1,680,061   | 1,633,731   | 3,445,992      | 2,738,980   | 1,968,281   | 1,923,933   | 47  |
| 6,894          | 41,653      | 34,086      | 42,088      | 443,855        | 210,047     | 132,168     | 143,175     | 48  |
| 10,568,690     | 7,595,152   | 6,350,646   | 3,370,697   | 11,489,320     | 8,262,445   | 6,716,111   | 3,714,401   | 49  |
| 817,213        | 1,047,089   | 586,871     | 541,308     | 857,720        | 1,081,853   | 595,404     | 567,222     | 50  |
| 364,061        | 499,016     | 316,606     | 381,973     | 407,328        | 525,578     | 322,070     | 398,872     | 51  |
| 927,086        | 658,923     | 607,178     | 823,083     | 2,820,178      | 2,773,819   | 3,268,981   | 3,667,169   | 52  |
| 122,671        | 82,282      | 81,127      | 114,067     | 205,959        | 162,946     | 163,709     | 207,142     | 53  |
| 45,266,691     | 30,130,664  | 20,915,295  | 16,982,841  | 62,486,182     | 43,452,980  | 30,808,511  | 26,119,404  | 54  |
| 584,407,018    | 351,686,775 | 232,548,055 | 238,187,681 | 906,612,695    | 578,503,904 | 406,383,744 | 433,798,625 | 55  |



**14.—Imports (Dutiable and Free) and Exports of Canadian and Foreign Produce, by Main Classes, and Totals of Duties Collected during the fiscal years ended Mar. 31, 1930-34.**

| Class.                                                                   | 1930.                | 1931.              | 1932.              | 1933.              | 1934.              |
|--------------------------------------------------------------------------|----------------------|--------------------|--------------------|--------------------|--------------------|
| <b>IMPORTS.</b>                                                          | \$                   | \$                 | \$                 | \$                 | \$                 |
| Agricultural and Vegetable Products (except chemicals, fibres and wood)— |                      |                    |                    |                    |                    |
| Dutiable.....                                                            | 152,958,305          | 111,488,384        | 93,306,851         | 64,429,763         | 64,731,623         |
| Free.....                                                                | 74,086,449           | 66,109,080         | 35,292,470         | 23,859,203         | 26,097,187         |
| <b>Totals for Group.....</b>                                             | <b>227,044,754</b>   | <b>177,597,464</b> | <b>128,599,321</b> | <b>88,288,966</b>  | <b>90,828,810</b>  |
| Animals and Animal Products (except chemicals and fibres)—               |                      |                    |                    |                    |                    |
| Dutiable.....                                                            | 44,479,161           | 28,062,640         | 13,471,114         | 8,274,423          | 8,986,263          |
| Free.....                                                                | 26,374,711           | 17,933,116         | 11,092,356         | 7,164,211          | 10,855,614         |
| <b>Totals for Group.....</b>                                             | <b>69,853,872</b>    | <b>45,995,756</b>  | <b>24,563,470</b>  | <b>15,438,634</b>  | <b>19,841,877</b>  |
| Fibres, Textiles and Textile Products—                                   |                      |                    |                    |                    |                    |
| Dutiable.....                                                            | 121,103,721          | 87,763,168         | 52,367,785         | 33,039,457         | 35,918,439         |
| Free.....                                                                | 64,137,831           | 42,953,854         | 31,511,577         | 28,175,367         | 43,454,031         |
| <b>Totals for Group.....</b>                                             | <b>185,241,552</b>   | <b>130,717,022</b> | <b>83,879,362</b>  | <b>61,214,824</b>  | <b>79,372,470</b>  |
| Wood, Wood Products and Paper—                                           |                      |                    |                    |                    |                    |
| Dutiable.....                                                            | 39,112,129           | 30,246,592         | 21,453,844         | 14,197,304         | 11,570,874         |
| Free.....                                                                | 21,843,011           | 15,826,751         | 10,576,263         | 6,308,830          | 7,787,113          |
| <b>Totals for Group.....</b>                                             | <b>60,955,140</b>    | <b>46,073,343</b>  | <b>32,030,107</b>  | <b>20,506,134</b>  | <b>19,357,987</b>  |
| Iron and Its Products—                                                   |                      |                    |                    |                    |                    |
| Dutiable.....                                                            | 260,450,283          | 159,465,332        | 84,502,393         | 48,280,297         | 49,509,704         |
| Free.....                                                                | 50,737,563           | 33,148,868         | 13,795,229         | 10,637,537         | 19,616,937         |
| <b>Totals for Group.....</b>                                             | <b>311,187,846</b>   | <b>192,614,200</b> | <b>98,297,622</b>  | <b>58,917,834</b>  | <b>69,126,641</b>  |
| Non-Ferrous Metals and Their Products—                                   |                      |                    |                    |                    |                    |
| Dutiable.....                                                            | 69,397,335           | 47,248,247         | 26,731,318         | 13,307,378         | 12,940,794         |
| Free.....                                                                | 24,182,312           | 14,651,051         | 8,071,032          | 4,788,026          | 7,230,206          |
| <b>Totals for Group.....</b>                                             | <b>93,579,647</b>    | <b>61,899,298</b>  | <b>34,802,350</b>  | <b>18,095,404</b>  | <b>20,171,000</b>  |
| Non-Metallic Minerals and Their Products (except chemicals)—             |                      |                    |                    |                    |                    |
| Dutiable.....                                                            | 69,259,471           | 59,901,380         | 57,382,379         | 45,599,875         | 38,522,548         |
| Free.....                                                                | 117,236,917          | 93,677,278         | 44,764,968         | 42,058,130         | 44,874,213         |
| <b>Totals for Group.....</b>                                             | <b>186,496,388</b>   | <b>153,578,658</b> | <b>102,147,347</b> | <b>87,658,005</b>  | <b>83,396,761</b>  |
| Chemicals and Allied Products—                                           |                      |                    |                    |                    |                    |
| Dutiable.....                                                            | 20,555,008           | 18,641,318         | 17,197,862         | 15,207,419         | 15,314,270         |
| Free.....                                                                | 19,352,495           | 17,009,454         | 13,533,483         | 10,248,013         | 10,269,405         |
| <b>Totals for Group.....</b>                                             | <b>39,907,503</b>    | <b>35,650,772</b>  | <b>30,731,345</b>  | <b>25,455,432</b>  | <b>25,583,675</b>  |
| Miscellaneous Commodities—                                               |                      |                    |                    |                    |                    |
| Dutiable.....                                                            | 41,915,061           | 31,273,169         | 22,084,502         | 14,041,184         | 12,981,897         |
| Free.....                                                                | 32,092,119           | 31,213,013         | 21,368,478         | 16,767,327         | 13,137,507         |
| <b>Totals for Group.....</b>                                             | <b>74,007,180</b>    | <b>62,486,182</b>  | <b>43,452,980</b>  | <b>30,808,511</b>  | <b>26,119,404</b>  |
| Total Imports—                                                           |                      |                    |                    |                    |                    |
| Dutiable.....                                                            | 819,230,474          | 574,090,230        | 388,498,048        | 256,377,100        | 250,476,412        |
| Free.....                                                                | 429,043,108          | 332,522,465        | 190,005,856        | 150,006,644        | 183,322,213        |
| <b>Totals, Imports.....</b>                                              | <b>1,248,273,582</b> | <b>906,612,695</b> | <b>578,503,904</b> | <b>406,383,744</b> | <b>433,798,625</b> |
| <b>Totals, Duties Collected<sup>1</sup>.....</b>                         | <b>199,011,628</b>   | <b>149,250,902</b> | <b>113,997,851</b> | <b>77,271,965</b>  | <b>73,154,472</b>  |

<sup>1</sup>Includes the following additional and special duties which cannot be apportioned by groups of commodities: 1930, \$1,924,386; 1931, \$1,984,708; 1932, \$2,018,194; 1933, \$4,683,735; 1934, \$2,342,895.



**1A.—Imports (Dutiable and Free) and Exports of Canadian and Foreign Produce, by Main Classes, and Totals of Duties Collected during the fiscal years ended Mar. 31, 1930-34—concluded.**

| Class.                                                                   | 1930.                | 1931.                | 1932.                | 1933.              | 1934.                |
|--------------------------------------------------------------------------|----------------------|----------------------|----------------------|--------------------|----------------------|
| <b>EXPORTS.</b>                                                          | <b>\$</b>            | <b>\$</b>            | <b>\$</b>            | <b>\$</b>          | <b>\$</b>            |
| Agricultural and Vegetable Products (except chemicals, fibres and wood)— |                      |                      |                      |                    |                      |
| Canadian produce.....                                                    | 384,635,751          | 292,280,037          | 204,398,365          | 203,370,418        | 205,804,526          |
| Foreign produce.....                                                     | 8,061,858            | 2,540,500            | 1,499,705            | 1,027,989          | 760,655              |
| <b>Totals for Group.....</b>                                             | <b>392,697,609</b>   | <b>294,820,537</b>   | <b>205,898,070</b>   | <b>204,398,407</b> | <b>206,565,181</b>   |
| Animals and Animal Products (except chemicals and fibres)—               |                      |                      |                      |                    |                      |
| Canadian produce.....                                                    | 133,009,145          | 83,714,772           | 68,798,683           | 54,333,047         | 75,151,480           |
| Foreign produce.....                                                     | 1,367,215            | 1,041,519            | 672,339              | 433,305            | 492,675              |
| <b>Totals for Group.....</b>                                             | <b>134,376,360</b>   | <b>84,756,291</b>    | <b>69,471,022</b>    | <b>54,766,352</b>  | <b>75,644,155</b>    |
| Fibres, Textiles and Textile Products—                                   |                      |                      |                      |                    |                      |
| Canadian produce.....                                                    | 9,066,226            | 6,504,182            | 5,512,130            | 4,731,094          | 7,828,684            |
| Foreign produce.....                                                     | 1,481,775            | 1,397,693            | 755,397              | 367,207            | 383,167              |
| <b>Totals for Group.....</b>                                             | <b>10,548,001</b>    | <b>7,901,875</b>     | <b>6,267,527</b>     | <b>5,098,301</b>   | <b>8,211,851</b>     |
| Wood, Wood Products and Paper—                                           |                      |                      |                      |                    |                      |
| Canadian produce.....                                                    | 289,566,675          | 230,604,474          | 175,740,269          | 120,886,796        | 143,142,398          |
| Foreign produce.....                                                     | 401,708              | 502,618              | 322,358              | 236,928            | 191,127              |
| <b>Totals for Group.....</b>                                             | <b>289,968,383</b>   | <b>231,107,092</b>   | <b>176,062,627</b>   | <b>121,123,724</b> | <b>143,333,525</b>   |
| Iron and Its Products—                                                   |                      |                      |                      |                    |                      |
| Canadian produce.....                                                    | 78,589,580           | 38,937,661           | 15,462,977           | 17,277,099         | 26,641,482           |
| Foreign produce.....                                                     | 4,790,770            | 3,713,065            | 2,962,695            | 1,894,056          | 1,702,969            |
| <b>Totals for Group.....</b>                                             | <b>83,380,350</b>    | <b>42,650,726</b>    | <b>18,425,672</b>    | <b>19,171,155</b>  | <b>28,344,451</b>    |
| Non-Ferrous Metals and Their Products—                                   |                      |                      |                      |                    |                      |
| Canadian produce.....                                                    | 154,319,429          | 95,652,063           | 69,072,888           | 42,642,318         | 81,764,208           |
| Foreign produce.....                                                     | 1,178,770            | 1,346,992            | 616,070              | 413,991            | 329,235              |
| <b>Totals for Group.....</b>                                             | <b>155,498,199</b>   | <b>96,999,055</b>    | <b>69,688,958</b>    | <b>43,056,309</b>  | <b>82,093,443</b>    |
| Non-Metallic Minerals and Their Products (except chemicals)—             |                      |                      |                      |                    |                      |
| Canadian produce.....                                                    | 28,545,096           | 21,107,780           | 13,456,701           | 9,215,837          | 14,808,912           |
| Foreign produce.....                                                     | 1,288,495            | 950,695              | 662,479              | 294,292            | 468,557              |
| <b>Totals for Group.....</b>                                             | <b>29,833,591</b>    | <b>22,058,475</b>    | <b>14,119,180</b>    | <b>9,510,129</b>   | <b>15,277,469</b>    |
| Chemicals and Allied Products—                                           |                      |                      |                      |                    |                      |
| Canadian produce.....                                                    | 22,468,462           | 12,825,852           | 10,535,038           | 11,099,814         | 13,843,829           |
| Foreign produce.....                                                     | 563,645              | 582,491              | 294,047              | 270,542            | 279,267              |
| <b>Totals for Group.....</b>                                             | <b>23,032,107</b>    | <b>13,408,343</b>    | <b>10,829,085</b>    | <b>11,370,356</b>  | <b>14,123,096</b>    |
| Miscellaneous Commodities—                                               |                      |                      |                      |                    |                      |
| Canadian produce.....                                                    | 20,057,938           | 18,115,846           | 13,367,251           | 10,243,532         | 10,357,626           |
| Foreign produce.....                                                     | 5,545,532            | 5,209,808            | 3,436,125            | 1,975,532          | 1,703,672            |
| <b>Totals for Group.....</b>                                             | <b>25,603,470</b>    | <b>23,325,654</b>    | <b>16,803,376</b>    | <b>12,219,064</b>  | <b>12,061,298</b>    |
| Total Exports—                                                           |                      |                      |                      |                    |                      |
| Canadian produce.....                                                    | 1,120,258,302        | 799,742,667          | 576,344,302          | 473,799,955        | 579,343,145          |
| Foreign produce.....                                                     | 24,679,768           | 17,285,381           | 11,221,215           | 6,913,842          | 6,311,324            |
| <b>Totals, Exports.....</b>                                              | <b>1,144,938,070</b> | <b>817,028,048</b>   | <b>587,565,517</b>   | <b>480,713,797</b> | <b>585,654,469</b>   |
| Total Trade—                                                             |                      |                      |                      |                    |                      |
| Imports, merchandise.....                                                | 1,248,273,582        | 906,612,695          | 578,503,904          | 406,383,744        | 433,798,625          |
| Exports, merchandise.....                                                | 1,144,938,070        | 817,028,048          | 587,565,517          | 480,713,797        | 585,654,469          |
| <b>Totals, External Trade.....</b>                                       | <b>2,393,211,652</b> | <b>1,723,640,743</b> | <b>1,166,069,421</b> | <b>887,097,541</b> | <b>1,019,453,094</b> |

**15.—External Trade of Canada, by Main Groups and Degree of Manufacture,  
According to Origin, fiscal year ended Mar. 31, 1934.**

NOTE.—A similar analysis for the fiscal year ended Mar. 31, 1933, will be found at pp. 786-787 of the Annual Report on the Trade of Canada, 1933, published by the Dominion Bureau of Statistics.

| Origin.                                       | Imports for Consumption. |                |             | Exports of Canadian Produce. |                |             |
|-----------------------------------------------|--------------------------|----------------|-------------|------------------------------|----------------|-------------|
|                                               | United Kingdom.          | United States. | Total.      | United Kingdom.              | United States. | Total.      |
| <b>Farm Origin—</b>                           | \$                       | \$             | \$          | \$                           | \$             | \$          |
| <b>1.—Canadian Farm Products—<sup>1</sup></b> |                          |                |             |                              |                |             |
| Field Crops—                                  |                          |                |             |                              |                |             |
| Raw materials.....                            | 527,856                  | 9,928,941      | 13,574,032  | 92,541,328                   | 5,340,190      | 144,818,394 |
| Partly manufactured.....                      | 4,305                    | 56,044         | 207,481     | 1,415                        | 2,734,177      | 3,022,221   |
| Fully or chiefly manufactured.....            | 14,552,460               | 3,038,488      | 19,647,833  | 17,016,463                   | 14,054,479     | 47,983,878  |
| Totals, Canadian Field Crops                  | 15,084,621               | 13,023,473     | 33,429,346  | 109,559,206                  | 22,128,846     | 195,824,493 |
| Animal Husbandry—                             |                          |                |             |                              |                |             |
| Raw materials.....                            | 2,118,253                | 2,497,350      | 8,548,688   | 6,061,148                    | 5,092,787      | 12,698,697  |
| Partly manufactured.....                      | 5,445,148                | 2,404,206      | 9,645,154   | 2,422,990                    | 734,911        | 3,618,592   |
| Fully or chiefly manufactured.....            | 13,239,439               | 1,672,696      | 17,668,877  | 23,208,509                   | 697,997        | 25,576,717  |
| Totals, Canadian Animal Husbandry.....        | 20,802,840               | 6,574,252      | 35,862,719  | 31,692,647                   | 6,525,695      | 41,894,006  |
| All Canadian Farm Products—                   |                          |                |             |                              |                |             |
| Raw materials.....                            | 2,646,109                | 12,426,291     | 22,122,720  | 98,602,476                   | 10,432,977     | 157,517,091 |
| Partly manufactured.....                      | 5,449,453                | 2,460,250      | 9,852,635   | 2,424,405                    | 3,469,088      | 6,640,813   |
| Fully or chiefly manufactured.....            | 27,791,899               | 4,711,184      | 37,316,710  | 40,224,972                   | 14,752,476     | 73,560,595  |
| Totals, Canadian Farm Products.....           | 35,887,461               | 19,597,725     | 69,292,065  | 141,251,853                  | 28,654,541     | 237,718,499 |
| <b>2.—Foreign Farm Products—<sup>1</sup></b>  |                          |                |             |                              |                |             |
| Field Crops—                                  |                          |                |             |                              |                |             |
| Raw materials.....                            | 508,041                  | 27,195,789     | 37,537,733  | 4,256                        | 11,027         | 17,862      |
| Partly manufactured.....                      | 830,827                  | 1,868,022      | 16,807,996  | 3,370                        | 58,791         | 65,933      |
| Fully or chiefly manufactured.....            | 18,116,700               | 8,460,969      | 44,963,824  | 3,476,891                    | 680,384        | 12,284,606  |
| Totals, Foreign Field Crops.                  | 19,455,568               | 37,524,780     | 99,309,553  | 3,484,517                    | 750,202        | 12,368,401  |
| Animal Husbandry—                             |                          |                |             |                              |                |             |
| Raw materials.....                            | 99,492                   | 4,572,535      | 4,922,227   | —                            | —              | —           |
| Partly manufactured.....                      | 22,770                   | 105,587        | 154,235     | —                            | —              | —           |
| Fully or chiefly manufactured.....            | 348,743                  | 1,055,309      | 3,114,395   | 289,965                      | 4,986          | 1,563,780   |
| Totals, Foreign Animal Husbandry.....         | 471,005                  | 5,733,431      | 8,190,857   | 289,965                      | 4,986          | 1,563,780   |
| All Foreign Farm Products—                    |                          |                |             |                              |                |             |
| Raw materials.....                            | 607,533                  | 31,768,324     | 42,459,960  | 4,256                        | 11,027         | 17,862      |
| Partly manufactured.....                      | 853,597                  | 1,973,609      | 16,962,231  | 3,370                        | 58,791         | 65,933      |
| Fully or chiefly manufactured.....            | 18,465,443               | 9,516,278      | 48,078,219  | 3,766,856                    | 685,370        | 13,848,386  |
| Totals, Foreign Farm Products.....            | 19,926,573               | 43,258,211     | 107,500,410 | 3,774,482                    | 755,188        | 13,932,181  |
| <b>3.—All Farm Products—</b>                  |                          |                |             |                              |                |             |
| All Field Crops—                              |                          |                |             |                              |                |             |
| Raw materials.....                            | 1,035,897                | 37,124,730     | 51,111,765  | 92,545,584                   | 5,351,217      | 144,836,256 |
| Partly manufactured.....                      | 835,132                  | 1,924,066      | 17,015,477  | 4,785                        | 2,792,968      | 3,088,154   |
| Fully or chiefly manufactured.....            | 32,669,160               | 11,499,457     | 64,611,657  | 20,493,354                   | 14,734,863     | 60,268,484  |
| Totals, All Field Crops.....                  | 34,540,189               | 50,548,253     | 132,738,899 | 113,043,723                  | 22,879,048     | 208,192,894 |

<sup>1</sup> In this classification the expression "Canadian Farm Products" refers, in the case of exports, to commodities actually produced, in their original state, on Canadian farms. In the case of imports, it covers all commodities of which the basic raw materials are such as Canadian farms produce. "Foreign Farm Products" covers, in both imports and exports, materials or commodities such as Canada does not produce in their original forms, e.g., cane sugar, tea, rubber, cotton, silk, etc.

**15.—External Trade of Canada, by Main Groups and Degree of Manufacture,  
According to Origin, fiscal year ended Mar. 31, 1934—concluded.**

| Origin.                                  | Imports for Consumption. |                    |                    | Exports of Canadian Produce. |                    |                    |
|------------------------------------------|--------------------------|--------------------|--------------------|------------------------------|--------------------|--------------------|
|                                          | United Kingdom.          | United States.     | Total.             | United Kingdom.              | United States.     | Total.             |
|                                          | \$                       | \$                 | \$                 | \$                           | \$                 | \$                 |
| <b>Farm Origin—concluded.</b>            |                          |                    |                    |                              |                    |                    |
| <b>3.—All Farm Prod'ts—concl.</b>        |                          |                    |                    |                              |                    |                    |
| All Animal Husbandry—                    |                          |                    |                    |                              |                    |                    |
| Raw materials.....                       | 2,217,745                | 7,069,885          | 13,470,915         | 6,061,148                    | 5,092,787          | 12,698,697         |
| Partly manufactured.....                 | 5,467,918                | 2,509,793          | 9,799,389          | 2,422,990                    | 734,911            | 3,618,592          |
| Fully or chiefly manufactured.....       | 13,588,182               | 2,728,005          | 20,783,272         | 23,498,474                   | 702,983            | 27,140,497         |
| <b>Totals, All Animal Husbandry.....</b> | <b>21,273,845</b>        | <b>12,307,683</b>  | <b>44,053,576</b>  | <b>31,982,612</b>            | <b>6,530,681</b>   | <b>43,457,786</b>  |
| All Farm Products—                       |                          |                    |                    |                              |                    |                    |
| Raw materials.....                       | 3,253,642                | 44,194,615         | 64,582,680         | 98,606,732                   | 10,444,004         | 157,534,953        |
| Partly manufactured.....                 | 6,303,050                | 4,433,859          | 26,814,866         | 2,427,775                    | 3,527,879          | 6,706,746          |
| Fully or chiefly manufactured.....       | 46,257,342               | 14,227,462         | 85,394,929         | 43,991,828                   | 15,437,846         | 87,408,981         |
| <b>Totals, Farm Origin.....</b>          | <b>55,814,034</b>        | <b>62,855,936</b>  | <b>176,792,475</b> | <b>145,026,335</b>           | <b>29,409,729</b>  | <b>251,650,680</b> |
| <b>Wild Life Origin—</b>                 |                          |                    |                    |                              |                    |                    |
| Raw materials.....                       | 252,461                  | 2,850,888          | 3,256,650          | 8,555,398                    | 4,437,974          | 14,057,845         |
| Partly manufactured.....                 | 55,746                   | 371,416            | 715,799            | 237,742                      | 20,933             | 288,775            |
| Fully or chiefly manufactured.....       | 55,455                   | 59,204             | 140,395            | 8,587                        | 31,880             | 44,994             |
| <b>Totals, Wild Life Origin.....</b>     | <b>363,662</b>           | <b>3,281,508</b>   | <b>4,112,844</b>   | <b>8,801,727</b>             | <b>4,490,787</b>   | <b>14,391,614</b>  |
| <b>Marine Origin—</b>                    |                          |                    |                    |                              |                    |                    |
| Raw materials.....                       | 8,587                    | 292,347            | 512,720            | 804,924                      | 6,855,796          | 7,902,535          |
| Partly manufactured.....                 | —                        | —                  | —                  | —                            | —                  | —                  |
| Fully or chiefly manufactured.....       | 122,341                  | 299,402            | 1,213,802          | 3,902,908                    | 2,021,450          | 13,090,509         |
| <b>Totals, Marine Origin.....</b>        | <b>130,928</b>           | <b>591,749</b>     | <b>1,726,522</b>   | <b>4,707,832</b>             | <b>8,877,246</b>   | <b>20,993,044</b>  |
| <b>Forest Origin—</b>                    |                          |                    |                    |                              |                    |                    |
| Raw materials.....                       | 10,820                   | 591,671            | 615,747            | 440,467                      | 7,202,838          | 9,052,271          |
| Partly manufactured.....                 | 11,304                   | 3,768,584          | 3,852,856          | 13,139,064                   | 27,497,100         | 49,742,992         |
| Fully or chiefly manufactured.....       | 3,241,434                | 12,108,463         | 17,023,569         | 6,878,366                    | 67,458,528         | 84,434,834         |
| <b>Totals, Forest Origin.....</b>        | <b>3,263,558</b>         | <b>16,468,718</b>  | <b>21,492,172</b>  | <b>20,457,897</b>            | <b>102,158,466</b> | <b>143,239,097</b> |
| <b>Mineral Origin—</b>                   |                          |                    |                    |                              |                    |                    |
| Raw materials.....                       | 9,444,231                | 42,431,009         | 61,550,508         | 6,342,375                    | 11,895,271         | 22,922,318         |
| Partly manufactured.....                 | 606,859                  | 4,735,803          | 5,678,080          | 26,420,135                   | 21,260,367         | 66,949,237         |
| Fully or chiefly manufactured.....       | 25,899,074               | 83,019,961         | 120,054,057        | 11,487,712                   | 8,595,844          | 43,723,259         |
| <b>Totals, Mineral Origin.....</b>       | <b>35,950,164</b>        | <b>130,186,773</b> | <b>187,282,645</b> | <b>44,250,222</b>            | <b>41,751,482</b>  | <b>133,594,814</b> |
| <b>Mixed Origin—</b>                     |                          |                    |                    |                              |                    |                    |
| Raw materials.....                       | —                        | —                  | —                  | —                            | —                  | —                  |
| Partly manufactured.....                 | 141,672                  | 1,102,721          | 1,474,559          | 71,561                       | 349,154            | 455,612            |
| Fully or chiefly manufactured.....       | 9,436,746                | 23,700,276         | 40,917,408         | 4,285,837                    | 7,406,275          | 15,027,284         |
| <b>Totals, Mixed Origin.....</b>         | <b>9,578,418</b>         | <b>24,802,997</b>  | <b>42,391,967</b>  | <b>4,357,398</b>             | <b>7,755,429</b>   | <b>15,482,896</b>  |
| <b>Recapitulation—</b>                   |                          |                    |                    |                              |                    |                    |
| Raw materials.....                       | 12,969,741               | 90,360,530         | 130,518,305        | 114,749,896                  | 40,835,883         | 211,469,922        |
| Partly manufactured.....                 | 7,118,631                | 14,412,383         | 38,536,160         | 42,296,277                   | 52,655,433         | 124,143,362        |
| Fully or chiefly manufactured.....       | 85,012,392               | 133,414,768        | 264,744,160        | 70,555,238                   | 100,951,823        | 243,729,861        |
| <b>Grand Totals.....</b>                 | <b>105,100,764</b>       | <b>238,187,681</b> | <b>433,798,625</b> | <b>227,601,411</b>           | <b>194,443,139</b> | <b>579,343,145</b> |



**16.—Summary of the External Trade of Canada, by Main Groups, Compiled on a Classification According to Purpose, fiscal year ended Mar. 31, 1934.**

NOTE.—A similar analysis for the fiscal year ended Mar. 31, 1933, will be found at pp. 789-791 of the Annual Report on the Trade of Canada, 1933, published by the Dominion Bureau of Statistics.

| Group and Purpose.                                                                   | Imports for Consumption. |                   |                   | Exports of Canadian Produce. |                   |                    |
|--------------------------------------------------------------------------------------|--------------------------|-------------------|-------------------|------------------------------|-------------------|--------------------|
|                                                                                      | United Kingdom.          | United States.    | Total.            | United Kingdom.              | United States.    | Total.             |
|                                                                                      | \$                       | \$                | \$                | \$                           | \$                | \$                 |
| <b>Foods, Beverages and Smokers Supplies</b><br>(Ready for consumption or not.)..... | <b>19,988,507</b>        | <b>19,757,141</b> | <b>78,852,125</b> | <b>138,310,609</b>           | <b>26,304,338</b> | <b>238,072,678</b> |
| Foods.....                                                                           | 3,434,663                | 19,209,581        | 52,216,659        | 138,092,946                  | 14,221,874        | 221,217,540        |
| Animals for food.....                                                                | —                        | 5,036             | 5,036             | 3,501,613                    | 9,158             | 3,639,102          |
| Breadstuffs.....                                                                     | 468,024                  | 2,826,559         | 5,295,334         | 90,170,454                   | 1,940,161         | 147,444,549        |
| Grains.....                                                                          | 169,553                  | 2,149,861         | 4,082,087         | 77,020,890                   | 1,829,139         | 122,625,645        |
| Flour and other milled products.....                                                 | 122,182                  | 254,513           | 465,995           | 10,213,955                   | 14,289            | 21,558,566         |
| Flour and meal.....                                                                  | 111,895                  | 246,935           | 447,017           | 10,213,955                   | 14,289            | 21,558,566         |
| Other milled products.....                                                           | 10,287                   | 7,578             | 18,978            | —                            | —                 | —                  |
| Bakery products and prepared foods.....                                              | 165,600                  | 320,694           | 509,914           | 2,935,609                    | 96,733            | 3,260,338          |
| Other farinaceous substances.....                                                    | 10,689                   | 101,491           | 287,338           | —                            | —                 | —                  |
| Cocoa and chocolate.....                                                             | 31,793                   | 306,964           | 1,375,554         | —                            | —                 | —                  |
| Fish.....                                                                            | 105,363                  | 409,795           | 1,251,065         | 4,613,944                    | 8,544,762         | 20,309,577         |
| Fresh or frozen.....                                                                 | 866                      | 215,803           | 352,587           | 702,041                      | 6,742,282         | 7,737,482          |
| Dried, salted, smoked or pickled.....                                                | 69,156                   | 28,347            | 225,286           | 50,313                       | 1,031,808         | 4,110,530          |
| Canned or otherwise preserved.....                                                   | 35,341                   | 165,645           | 673,192           | 3,771,590                    | 770,672           | 8,461,565          |
| Fruits.....                                                                          | 358,248                  | 10,381,285        | 15,966,395        | 12,550,903                   | 227,023           | 14,425,851         |
| Fresh.....                                                                           | 28,686                   | 8,493,824         | 10,576,033        | 11,581,911                   | 212,452           | 13,256,530         |
| Dried.....                                                                           | 292,661                  | 1,757,233         | 4,325,923         | 70,926                       | 2,250             | 224,480            |
| Canned or otherwise preserved.....                                                   | 36,911                   | 130,228           | 1,064,439         | 898,066                      | 12,321            | 944,841            |
| Meats.....                                                                           | 127,247                  | 336,967           | 832,644           | 14,261,527                   | 386,806           | 15,503,994         |
| Lard, lard compound and substitutes.....                                             | 1,010                    | 169,372           | 170,424           | 121,961                      | 381               | 161,481            |
| Milk and its products.....                                                           | 294,013                  | 76,087            | 709,159           | 9,504,122                    | 297,883           | 10,886,159         |
| Milk and cream, fresh.....                                                           | —                        | 2,993             | 2,999             | —                            | 36,995            | 36,995             |
| Milk preparations and products.....                                                  | 294,013                  | 73,094            | 706,160           | 9,504,122                    | 260,888           | 10,849,164         |
| Nuts.....                                                                            | 89,021                   | 387,837           | 2,713,670         | 38                           | 885               | 1,584              |
| Oils.....                                                                            | 391,854                  | 201,439           | 2,320,876         | —                            | —                 | —                  |
| Salt.....                                                                            | 244,413                  | 259,723           | 659,535           | 72                           | 8,714             | 43,500             |
| Spices.....                                                                          | 321,386                  | 82,732            | 705,091           | —                            | —                 | —                  |
| Sugar and sugar products.....                                                        | 472,259                  | 309,737           | 14,535,640        | 83,274                       | 444,823           | 1,568,353          |
| Vegetables.....                                                                      | 155,116                  | 2,843,206         | 3,818,476         | 2,031,538                    | 2,042,592         | 4,911,728          |
| Vinegar.....                                                                         | 8,483                    | 22,316            | 34,676            | 876                          | 10,980            | 12,234             |
| Yeast.....                                                                           | 21,638                   | 239,381           | 261,679           | —                            | —                 | —                  |
| Other articles of food.....                                                          | 344,795                  | 351,145           | 1,561,395         | 1,252,624                    | 307,706           | 2,309,428          |
| Beverages and infusions.....                                                         | 15,931,843               | 453,764           | 25,378,025        | 217,301                      | 12,077,998        | 16,787,658         |
| Beverages, alcoholic.....                                                            | 12,516,036               | 112               | 14,223,899        | 58,931                       | 12,076,897        | 16,586,299         |
| Beverages, non-alcoholic.....                                                        | 12,882                   | 64,359            | 148,538           | 157,786                      | 641               | 187,589            |
| Lime and other fruit juices.....                                                     | 9,493                    | 45,867            | 75,173            | 155,734                      | 423               | 182,030            |
| Mineral waters.....                                                                  | 3,389                    | 18,492            | 73,365            | 2,052                        | 118               | 5,559              |
| Infusions.....                                                                       | 3,402,925                | 389,293           | 11,005,588        | 584                          | 560               | 13,770             |
| Cocoa and chocolate.....                                                             | 5,418                    | 59,313            | 96,610            | —                            | —                 | —                  |
| Coffee and chicory.....                                                              | 253,433                  | 325,621           | 3,519,261         | 584                          | 560               | 13,770             |
| Tea.....                                                                             | 3,144,074                | 4,359             | 7,389,717         | —                            | —                 | —                  |
| Smokers supplies.....                                                                | 622,001                  | 93,796            | 1,257,441         | 362                          | 4,466             | 67,480             |
| Tobacco, manufactured.....                                                           | 320,462                  | 72,629            | 429,801           | 362                          | 4,466             | 67,480             |
| Other smokers supplies.....                                                          | 301,539                  | 21,167            | 827,640           | —                            | —                 | —                  |
| <b>Personal and Household Utilities. — (Finished goods.).....</b>                    | <b>12,942,795</b>        | <b>14,428,731</b> | <b>36,202,361</b> | <b>5,481,847</b>             | <b>1,620,840</b>  | <b>12,685,003</b>  |
| Books, printed matter, stationery and educational supplies.....                      | 2,483,843                | 6,634,723         | 9,868,733         | 483,988                      | 370,923           | 1,133,959          |
| Books, pamphlets, printed matter and maps.....                                       | 1,753,301                | 5,322,468         | 7,430,817         | 133,526                      | 296,430           | 585,043            |
| Books.....                                                                           | 1,293,926                | 1,630,515         | 3,221,517         | 16,469                       | 47,769            | 76,796             |
| Charts and maps.....                                                                 | 8,649                    | 68,264            | 77,365            | —                            | —                 | —                  |
| Newspapers.....                                                                      | 198,889                  | 2,498,484         | 2,704,837         | 117,057                      | 248,661           | 508,247            |
| Printed matter, n.o.p....                                                            | 251,837                  | 1,125,205         | 1,427,098         | —                            | —                 | —                  |



**16.—Summary of the External Trade of Canada, by Main Groups, Compiled on a Classification According to Purpose, fiscal year ended Mar. 31, 1934—continued.**

| Group and Purpose.                                 | Imports for Consumption. |                   |                   | Exports of Canadian Produce. |                  |                   |
|----------------------------------------------------|--------------------------|-------------------|-------------------|------------------------------|------------------|-------------------|
|                                                    | United Kingdom.          | United States.    | Total.            | United Kingdom.              | United States.   | Total.            |
|                                                    | \$                       | \$                | \$                | \$                           | \$               | \$                |
| <b>Personal and Household Utilities—concluded.</b> |                          |                   |                   |                              |                  |                   |
| Books, etc.—concluded.                             |                          |                   |                   |                              |                  |                   |
| Stationery.....                                    | 312,344                  | 572,920           | 1,053,215         | 313,220                      | 16,221           | 440,319           |
| Educational equipment (except text books)....      | 198,403                  | 375,030           | 644,187           | 25,992                       | 5,968            | 41,291            |
| Works of art.....                                  | 219,795                  | 364,305           | 740,514           | 11,250                       | 52,304           | 67,306            |
| Clothing.....                                      | 3,338,983                | 1,626,730         | 7,697,667         | 2,795,411                    | 89,967           | 5,684,468         |
| Blouses and shirtwaists...                         | 269                      | 8,621             | 17,382            | —                            | —                | —                 |
| Boots and shoes (excluding materials).....         | 340,786                  | 302,018           | 1,069,064         | 2,103,320                    | 22,212           | 3,297,936         |
| Gloves and mitts.....                              | 169,477                  | 16,240            | 1,507,562         | 214,897                      | 247              | 235,116           |
| Handkerchiefs.....                                 | 761,239                  | 3,703             | 1,017,121         | —                            | —                | —                 |
| Hats and caps (excluding materials).....           | 220,274                  | 217,097           | 665,187           | 3,381                        | 288              | 34,541            |
| Hosiery.....                                       | 350,762                  | 7,025             | 372,127           | 214,416                      | 3,354            | 1,454,111         |
| Shirts.....                                        | 5,339                    | 3,865             | 9,292             | —                            | —                | —                 |
| Underwear.....                                     | 212,858                  | 1,059             | 235,710           | 24,208                       | 527              | 137,867           |
| Miscellaneous clothing.....                        | 1,277,979                | 1,067,102         | 2,804,222         | 235,189                      | 63,339           | 524,897           |
| Household utilities.....                           | 5,444,125                | 3,614,991         | 11,468,381        | 1,092,815                    | 104,874          | 2,516,684         |
| Bedding.....                                       | 270,390                  | 44,431            | 429,077           | —                            | 205              | 27,463            |
| Cutlery.....                                       | 152,128                  | 74,442            | 294,105           | —                            | —                | —                 |
| Floor coverings.....                               | 248,617                  | 67,150            | 720,210           | 450                          | 4,504            | 89,972            |
| Wool carpets.....                                  | 155,321                  | 12,171            | 481,212           | 70                           | 4,387            | 5,403             |
| Other floor coverings.....                         | 93,296                   | 54,979            | 238,968           | 380                          | 117              | 84,569            |
| Furniture.....                                     | 80,058                   | 392,183           | 566,216           | 21,085                       | 14,368           | 223,169           |
| Glassware, chinaware and pottery.....              | 2,241,296                | 363,380           | 3,390,034         | 834                          | 23,167           | 27,420            |
| Glassware.....                                     | 47,260                   | 275,801           | 493,834           | —                            | —                | —                 |
| Chinaware and pottery.....                         | 2,194,036                | 87,579            | 2,896,200         | 834                          | 23,167           | 27,420            |
| Household linen.....                               | 1,445,334                | 52,988            | 1,703,635         | —                            | —                | —                 |
| Household machinery.....                           | 111,906                  | 801,795           | 1,189,358         | 465,245                      | 20,678           | 1,150,034         |
| Kitchen equipment.....                             | 138,251                  | 1,030,061         | 1,225,802         | 39,410                       | 4,618            | 107,762           |
| Soap.....                                          | 79,167                   | 217,617           | 378,017           | 512,857                      | 162              | 645,592           |
| Window curtains and fixtures.....                  | 232,960                  | 28,830            | 346,764           | —                            | —                | —                 |
| Miscellaneous household utilities.....             | 444,018                  | 542,114           | 1,225,163         | 52,934                       | 37,172           | 245,272           |
| Jewellery, personal ornaments and timepieces.....  | 185,574                  | 652,768           | 2,195,294         | 42,577                       | 1,502            | 218,906           |
| Jewellery and personal ornaments.....              | 168,275                  | 390,762           | 1,171,202         | 245                          | 812              | 8,159             |
| Timepieces.....                                    | 17,299                   | 262,006           | 1,024,092         | 42,332                       | 690              | 210,747           |
| Personal utilities.....                            | 729,281                  | 602,887           | 2,091,782         | —                            | —                | 26,703            |
| Toilet articles.....                               | 514,589                  | 330,021           | 1,284,770         | —                            | —                | 26,703            |
| Other personal utilities.....                      | 214,692                  | 272,866           | 807,012           | —                            | —                | —                 |
| Recreation equipment and supplies.....             | 760,989                  | 1,296,632         | 2,880,504         | 1,067,056                    | 1,053,574        | 3,104,283         |
| Musical instruments and accessories.....           | 62,597                   | 366,628           | 538,502           | 5,536                        | 36,682           | 56,319            |
| Picture machines and accessories.....              | 134,221                  | 380,302           | 580,549           | 1,048,693                    | 755,361          | 2,713,905         |
| Equipment for indoor games.....                    | 27,633                   | 47,547            | 81,225            | —                            | —                | —                 |
| Miscellaneous articles for amusement.....          | 536,538                  | 502,155           | 1,680,228         | 12,827                       | 261,531          | 334,059           |
| <b>Electrical Energy.....</b>                      | <b>—</b>                 | <b>66,880</b>     | <b>66,880</b>     | <b>—</b>                     | <b>2,638,444</b> | <b>2,611,110</b>  |
| <b>Electrical Equipment.....</b>                   | <b>553,044</b>           | <b>5,441,067</b>  | <b>6,355,568</b>  | <b>843,504</b>               | <b>587,929</b>   | <b>3,197,759</b>  |
| Batteries.....                                     | 30,748                   | 176,366           | 207,423           | 12,361                       | 2,949            | 245,943           |
| Dynamos and motors.....                            | 235,579                  | 703,560           | 1,207,927         | 50,097                       | 1,517            | 55,933            |
| Lighting equipment.....                            | 16,573                   | 278,229           | 329,522           | —                            | —                | —                 |
| Transmission equipment.....                        | 8,379                    | 46,940            | 55,557            | 100                          | 565,225          | 706,502           |
| Other electric apparatus.....                      | 261,765                  | 4,238,972         | 4,555,139         | 780,946                      | 18,238           | 2,189,381         |
| <b>Producers Equipment.....</b>                    | <b>15,520,789</b>        | <b>49,007,170</b> | <b>68,423,447</b> | <b>2,625,505</b>             | <b>6,401,418</b> | <b>14,835,102</b> |
| Abrasives.....                                     | 56,598                   | 1,241,252         | 1,319,081         | 567,525                      | 2,291,258        | 2,926,517         |
| Containers, wrapping and packing materials.....    | 1,728,957                | 2,786,042         | 5,615,257         | 88,593                       | 903,172          | 1,854,617         |

16.—Summary of the External Trade of Canada, by Main Groups, Compiled on a Classification According to Purpose, fiscal year ended Mar. 31, 1934—continued.

| Group and Purpose.                                                                                          | Imports for Consumption. |                |            | Exports of Canadian Produce. |                |           |
|-------------------------------------------------------------------------------------------------------------|--------------------------|----------------|------------|------------------------------|----------------|-----------|
|                                                                                                             | United Kingdom.          | United States. | Total.     | United Kingdom.              | United States. | Total.    |
|                                                                                                             | \$                       | \$             | \$         | \$                           | \$             | \$        |
| <b>Producers Equipment—</b><br>continued.                                                                   |                          |                |            |                              |                |           |
| Bags and sacks.....                                                                                         | 64,179                   | 126,834        | 210,738    | 32,873                       | 2,122          | 143,259   |
| Barrels.....                                                                                                | 255                      | 38,410         | 39,155     | —                            | 555,900        | 643,042   |
| Cordage (except binder twine).....                                                                          | 18,603                   | 15,593         | 35,377     | 299                          | 172,952        | 264,218   |
| Wrapping paper.....                                                                                         | 183,494                  | 516,859        | 832,992    | 47,604                       | 24,487         | 519,662   |
| Miscellaneous containers, etc.....                                                                          | 1,462,426                | 2,088,346      | 4,496,995  | 7,817                        | 147,711        | 284,436   |
| Farm equipment.....                                                                                         | 359,763                  | 2,418,963      | 3,449,520  | 353,182                      | 1,226,383      | 3,007,697 |
| Agricultural implements and machinery.....                                                                  | 142,930                  | 2,048,152      | 2,327,235  | 293,457                      | 325,151        | 1,824,820 |
| Dairying equipment.....                                                                                     | 69,411                   | 433,090        | 597,509    | 4,773                        | 35,173         | 72,507    |
| Engines for farm purposes.....                                                                              | 20,381                   | 767,786        | 789,608    | 641                          | 2,632          | 4,994     |
| Planting and tillage implements.....                                                                        | 1,572                    | 71,719         | 75,586     | 62,120                       | 131,463        | 505,194   |
| Harvesting equipment.....                                                                                   | 13,199                   | 97,852         | 136,678    | 30,750                       | 2,537          | 200,029   |
| Seed separation machinery.....                                                                              | 56                       | 80,440         | 80,676     | 2,086                        | 10,654         | 41,549    |
| Other agricultural implements and machinery and parts of.....                                               | 38,311                   | 597,265        | 647,178    | 193,087                      | 142,692        | 1,000,547 |
| Animals (except animals for food).....                                                                      | 46,662                   | 229,123        | 317,200    | 7,874                        | 704,744        | 774,672   |
| Animals for improvement of stock.....                                                                       | 37,708                   | 82,727         | 120,735    | 3,262                        | 219,973        | 236,210   |
| Other animals.....                                                                                          | 8,954                    | 146,396        | 196,465    | 4,612                        | 484,771        | 538,462   |
| Fencing materials.....                                                                                      | 85,375                   | 33,362         | 131,622    | 50,927                       | 167,159        | 369,858   |
| Harness and horse equipment.....                                                                            | 47,178                   | 27,327         | 76,655     | 81                           | 1,118          | 3,359     |
| Plants, trees and shrubs.....                                                                               | 37,551                   | 72,910         | 588,652    | 843                          | 28,211         | 34,988    |
| Miscellaneous farm equipment.....                                                                           | 67                       | 8,089          | 8,156      | —                            | —              | —         |
| Industrial equipment.....                                                                                   | 4,157,231                | 13,043,964     | 18,291,567 | 1,496,171                    | 400,587        | 3,556,612 |
| Fisheries equipment.....                                                                                    | 893,455                  | 362,836        | 1,396,634  | —                            | 13,593         | 13,593    |
| Industrial and trade machinery (except mining, electrical and printing machinery, boilers and engines)..... | 1,587,229                | 7,807,612      | 9,816,729  | 1,105,034                    | 370,388        | 2,401,676 |
| Construction machinery                                                                                      | 12,258                   | 70,588         | 83,699     | —                            | 170,055        | 179,266   |
| Office or business machinery and accessories.....                                                           | 102,131                  | 1,254,950      | 1,363,903  | 242,499                      | 3,992          | 529,335   |
| Metal-working machinery.....                                                                                | 98,709                   | 743,015        | 861,481    | 7,537                        | 4,975          | 13,790    |
| Pulp and paper-making machinery and accessories.....                                                        | 20,791                   | 257,256        | 308,929    | 186,507                      | 4,652          | 461,226   |
| Textile and cordage machinery.....                                                                          | 678,975                  | 2,251,036      | 3,154,324  | —                            | —              | —         |
| Other industrial machinery.....                                                                             | 674,365                  | 3,230,767      | 4,044,393  | 668,491                      | 186,714        | 1,218,059 |
| Mining and metallurgical equipment.....                                                                     | 531,045                  | 1,267,537      | 1,814,003  | —                            | —              | —         |
| Printing equipment.....                                                                                     | 246,540                  | 1,533,901      | 1,887,368  | 362                          | 6,963          | 8,308     |
| Photographic equipment.....                                                                                 | 22,693                   | 327,918        | 472,935    | 7                            | 1,304          | 3,508     |
| Tools, n.o.p.....                                                                                           | 221,217                  | 537,705        | 967,225    | 223,250                      | 3,059          | 584,670   |
| Transmission equipment (except electrical).....                                                             | 121,138                  | 155,922        | 284,943    | 52,328                       | 3,436          | 296,000   |
| Miscellaneous industrial equipment.....                                                                     | 533,914                  | 1,050,533      | 1,651,726  | 115,190                      | 1,844          | 248,857   |
| Light, heat and power equipment and supplies (except electrical and transportation).....                    | 9,164,527                | 26,837,286     | 37,007,465 | 91,351                       | 1,110,284      | 2,846,951 |
| Boilers and engines (except for farms).....                                                                 | 234,953                  | 385,503        | 776,797    | 2,944                        | 5,192          | 36,349    |
| Fuel.....                                                                                                   | 8,896,817                | 26,060,142     | 35,751,895 | 43,104                       | 1,091,427      | 2,235,334 |
| Coal.....                                                                                                   | 8,820,464                | 20,380,451     | 29,201,459 | 43,104                       | 358,779        | 1,093,631 |
| Fuel oils.....                                                                                              | 210                      | 2,525,219      | 3,318,404  | —                            | 195,554        | 592,800   |
| Other fuels.....                                                                                            | 76,143                   | 3,154,472      | 3,232,032  | —                            | 537,094        | 548,903   |
| Illuminants.....                                                                                            | 6,449                    | 146,839        | 156,065    | 16,113                       | 11,125         | 502,831   |

16.—Summary of the External Trade of Canada, by Main Groups, Compiled on a Classification According to Purpose, fiscal year ended Mar. 31, 1934—continued.

| Group and Purpose.                                         | Imports for Consumption. |                    |                    | Exports of Canadian Produce. |                    |                    |
|------------------------------------------------------------|--------------------------|--------------------|--------------------|------------------------------|--------------------|--------------------|
|                                                            | United Kingdom.          | United States.     | Total.             | United Kingdom.              | United States.     | Total.             |
|                                                            | \$                       | \$                 | \$                 | \$                           | \$                 | \$                 |
| <b>Producers Equipment—</b><br>concluded.                  |                          |                    |                    |                              |                    |                    |
| Other light, heat and power equipment.....                 | 26,308                   | 244,802            | 322,708            | 29,190                       | 2,540              | 72,437             |
| Lubricating oils and greases.                              | 53,713                   | 2,679,663          | 2,740,557          | 28,683                       | 469,734            | 642,708            |
| <b>Producers Materials—</b> (Except unmanufactured foods). | <b>49,765,465</b>        | <b>103,125,262</b> | <b>187,424,367</b> | <b>73,917,058</b>            | <b>152,959,760</b> | <b>279,375,354</b> |
| <b>Building and construction materials.....</b>            | <b>2,392,044</b>         | <b>5,836,920</b>   | <b>9,299,837</b>   | <b>12,314,015</b>            | <b>12,475,294</b>  | <b>32,061,071</b>  |
| Asphalt and its products..                                 | 41                       | 114,284            | 114,585            | —                            | —                  | —                  |
| Brick and tile.....                                        | 183,583                  | 1,046,202          | 1,258,628          | 10                           | 15,899             | 18,804             |
| Cement, lime and plaster.                                  | 17,371                   | 40,840             | 63,649             | 1,476                        | 231,977            | 292,604            |
| Glass for building.....                                    | 497,131                  | 152,494            | 1,178,603          | —                            | —                  | —                  |
| Structural iron.....                                       | 206,717                  | 416,513            | 698,584            | 4,410                        | 25                 | 34,460             |
| Iron piping.....                                           | 93,109                   | 255,856            | 355,609            | 22,213                       | 256,109            | 808,114            |
| Nails.....                                                 | 2,799                    | 7,205              | 10,129             | 253,573                      | 1,996              | 462,720            |
| Lumber and timber.....                                     | 522                      | 1,474,925          | 1,491,167          | 11,378,051                   | 11,313,011         | 27,747,438         |
| Paints and painters' materials.....                        | 1,041,625                | 1,338,864          | 2,620,379          | 182,501                      | 23,103             | 436,904            |
| Paints and varnishes....                                   | 55,836                   | 236,929            | 303,927            | 175,283                      | 4,046              | 358,235            |
| Painters' materials.....                                   | 985,789                  | 1,101,935          | 2,316,452          | 7,218                        | 19,057             | 78,669             |
| Stone, marble and slate...                                 | 19,387                   | 63,531             | 144,337            | 29                           | 83,075             | 83,499             |
| Railway materials.....                                     | 55,016                   | 211,272            | 281,771            | 1,153                        | 524,545            | 1,330,181          |
| Miscellaneous construction materials.....                  | 274,743                  | 714,934            | 1,082,392          | 470,599                      | 25,554             | 846,347            |
| Farm materials.....                                        | 791,287                  | 2,105,886          | 5,142,954          | 2,473,752                    | 4,754,789          | 9,422,221          |
| Fertilizers.....                                           | 21,269                   | 1,101,343          | 2,061,800          | 100,394                      | 2,574,916          | 3,819,429          |
| Fodders.....                                               | 4,409                    | 221,728            | 238,622            | 1,632,328                    | 1,890,342          | 3,919,398          |
| Seeds.....                                                 | 127,494                  | 456,590            | 1,066,577          | 449,425                      | 32,345             | 977,898            |
| Miscellaneous farm materials.....                          | 638,115                  | 326,225            | 1,775,955          | 291,655                      | 317,186            | 705,496            |
| <b>Manufacturers materials.</b>                            | <b>46,582,134</b>        | <b>95,182,456</b>  | <b>172,981,576</b> | <b>59,129,291</b>            | <b>135,729,677</b> | <b>237,892,062</b> |
| For explosives and ammunition.....                         | 28,308                   | 154,741            | 190,598            | —                            | —                  | —                  |
| For textiles, clothing and cordage.....                    | 27,671,590               | 24,889,716         | 64,870,363         | 630,924                      | 1,453,716          | 2,997,505          |
| Fibres for spinning or cordage manufacture..               | 6,863,822                | 20,944,619         | 32,337,130         | 486,114                      | 1,362,820          | 1,925,314          |
| Yarn for weaving or knitting.....                          | 5,128,618                | 230,290            | 6,338,171          | —                            | —                  | —                  |
| Piece goods for clothing.                                  | 13,677,466               | 2,792,964          | 22,365,128         | 77,032                       | 4,655              | 171,611            |
| Thread for sewing.....                                     | 498,427                  | 170,359            | 804,744            | —                            | —                  | —                  |
| Buttons and materials for (except shoe buttons).....       | 13,214                   | 128,683            | 323,966            | 8,021                        | 47                 | 13,222             |
| Corset materials.....                                      | 8,261                    | 54,615             | 62,876             | —                            | —                  | —                  |
| Hat materials.....                                         | 72,568                   | 375,985            | 948,924            | —                            | —                  | —                  |
| Other textile, clothing and cordage materials.             | 1,409,214                | 192,201            | 1,689,424          | 59,757                       | 86,194             | 887,358            |
| For dyeing and tanning....                                 | 644,581                  | 2,059,250          | 4,897,004          | 26                           | 4,134              | 4,160              |
| For fur and leather goods.                                 | 1,439,081                | 6,233,192          | 10,274,386         | 11,288,466                   | 7,244,416          | 20,256,196         |
| Furs.....                                                  | 395,889                  | 3,619,296          | 4,596,415          | 8,802,295                    | 4,423,685          | 14,318,782         |
| Hides.....                                                 | 146,609                  | 1,126,175          | 3,159,646          | 85,337                       | 2,338,051          | 2,599,971          |
| Leather.....                                               | 882,598                  | 1,308,349          | 2,289,195          | 2,400,834                    | 482,680            | 3,397,443          |
| Other materials.....                                       | 13,985                   | 179,372            | 229,130            | —                            | —                  | —                  |
| For smelters and metal refineries.....                     | 841,468                  | 1,539,692          | 3,578,139          | 7,917,641                    | 8,503,502          | 21,706,110         |
| For foundries.....                                         | 53,354                   | 412,327            | 516,821            | 8,217,798                    | 3,447,341          | 16,523,725         |
| For machinery, implements, tools and cutlery.              | 127,506                  | 1,850,457          | 2,193,033          | 86,206                       | 13,545             | 174,915            |
| For electrical goods.....                                  | 21,141                   | 742,168            | 766,971            | —                            | —                  | —                  |
| For furniture and wood wares.....                          | 45,988                   | 1,653,212          | 1,789,153          | 520,411                      | 79,963             | 1,227,665          |
| Cabinet woods.....                                         | 5,184                    | 819,083            | 866,991            | 51,785                       | 5,871              | 58,701             |
| Other materials.....                                       | 40,804                   | 834,129            | 922,162            | 468,626                      | 74,092             | 1,168,964          |
| For musical instruments..                                  | 1,757                    | 7,177              | 21,381             | 5,509                        | —                  | 20,182             |
| For paper pulp.....                                        | 23,669                   | 2,610,405          | 2,646,268          | 116                          | 4,883,202          | 4,883,318          |
| For paper-making.....                                      | 21,129                   | 141,051            | 169,572            | 1,384,804                    | 20,771,529         | 25,756,386         |
| For paper goods, printing and bookbinding.....             | 294,507                  | 998,490            | 1,376,481          | 5,171,935                    | 61,615,579         | 74,986,745         |
| For rubber working industries.....                         | 118,405                  | 4,308,168          | 4,487,125          | —                            | 45,701             | 48,846             |

**16.—Summary of the External Trade of Canada, by Main Groups, Compiled on a Classification According to Purpose, fiscal year ended Mar. 31, 1934—concluded.**

| Group and Purpose.                                     | Imports for Consumption. |                   |                   | Exports of Canadian Produce. |                |                   |
|--------------------------------------------------------|--------------------------|-------------------|-------------------|------------------------------|----------------|-------------------|
|                                                        | United Kingdom.          | United States.    | Total.            | United Kingdom.              | United States. | Total.            |
|                                                        | \$                       | £                 | \$                | \$                           | \$             | \$                |
| <b>Producers Materials—concl.</b>                      |                          |                   |                   |                              |                |                   |
| Manufacturers Materials—concl.                         |                          |                   |                   |                              |                |                   |
| For vehicles (not including complete parts).....       | 202,244                  | 548,886           | 751,372           | —                            | —              | —                 |
| For vessels.....                                       | 71,102                   | 122,637           | 209,455           | —                            | 1,211          | 3,145             |
| Other materials for chemical-using industries.....     | 1,452,897                | 3,836,321         | 6,056,474         | 1,237,399                    | 3,827,730      | 7,092,512         |
| Other materials for metal-working industries.....      | 11,312,968               | 8,781,921         | 21,175,740        | 18,701,030                   | 13,522,801     | 44,124,079        |
| Other materials for wood-using industries.....         | 10,000                   | 383,396           | 394,503           | 761,830                      | 1,262,325      | 3,379,467         |
| Other manufacturers' materials.....                    | 2,200,439                | 33,909,249        | 46,616,737        | 3,205,196                    | 9,052,982      | 14,707,106        |
| <b>Transportation.....</b>                             | <b>942,235</b>           | <b>20,280,191</b> | <b>21,270,695</b> | <b>1,746,024</b>             | <b>231,737</b> | <b>17,575,790</b> |
| Vehicles.....                                          | 917,756                  | 19,916,691        | 20,875,755        | 1,744,813                    | 127,304        | 17,317,688        |
| Automobiles and parts....                              | 511,192                  | 19,122,663        | 19,660,403        | 1,669,129                    | 109,777        | 12,898,603        |
| Other motor vehicles, not for railways.....            | 147,391                  | 65,188            | 212,579           | 570                          | 1,050          | 3,386             |
| Bicycles and tricycles.....                            | 104,191                  | 23,497            | 133,249           | 71                           | 443            | 929               |
| Railway rolling-stock.....                             | 39,006                   | 196,994           | 236,000           | —                            | 4,913          | 71,814            |
| Locomotives.....                                       | 4,283                    | 10,524            | 14,807            | —                            | 4,450          | 64,796            |
| Motor cars.....                                        | 2,986                    | 12,039            | 15,025            | —                            | 463            | 7,018             |
| Other cars.....                                        | 31,737                   | 174,431           | 206,168           | —                            | —              | —                 |
| Other vehicles.....                                    | 79,297                   | 384,911           | 469,762           | 595                          | 4,777          | 35,582            |
| Rubber tires.....                                      | 36,679                   | 123,438           | 163,732           | 74,448                       | 6,344          | 4,307,374         |
| Vessels.....                                           | 24,479                   | 363,500           | 394,940           | 1,211                        | 104,433        | 258,102           |
| Ships and boats.....                                   | 4,404                    | 201,481           | 208,452           | 1,211                        | 104,433        | 258,102           |
| Equipment for ships.....                               | 20,075                   | 162,019           | 186,488           | —                            | —              | —                 |
| <b>Medical Supplies.....</b>                           | <b>1,364,017</b>         | <b>2,441,247</b>  | <b>4,859,226</b>  | <b>444,412</b>               | <b>89,071</b>  | <b>843,175</b>    |
| Alkaloids and their salts....                          | 130,282                  | 53,196            | 306,964           | —                            | —              | —                 |
| Biological medicines.....                              | 4,604                    | 114,002           | 130,475           | —                            | —              | —                 |
| Drugs, crude.....                                      | 2,988                    | 123,314           | 147,645           | 38,795                       | 56,668         | 158,536           |
| Medicinal and pharmaceutical preparations.....         | 681,619                  | 980,386           | 2,179,077         | 405,612                      | 19,692         | 671,733           |
| Oils and gums, chiefly for medicinal use.....          | 157,801                  | 107,616           | 434,697           | 5                            | 12,711         | 12,906            |
| Medical, surgical and dental equipment and materials.. | 386,723                  | 1,062,733         | 1,660,368         | —                            | —              | —                 |
| <b>Arms, Explosives and War Stores.....</b>            | <b>72,334</b>            | <b>392,655</b>    | <b>503,550</b>    | <b>2,627</b>                 | <b>1,673</b>   | <b>141,894</b>    |
| Arms.....                                              | 19,062                   | 58,630            | 89,755            | 910                          | —              | 2,503             |
| Military equipment.....                                | 17,249                   | 28                | 24,966            | —                            | —              | —                 |
| Ammunition and explosives..                            | 36,023                   | 333,997           | 388,829           | 1,717                        | 1,673          | 139,391           |
| <b>Goods for Exhibition.....</b>                       | <b>113,785</b>           | <b>2,619,233</b>  | <b>2,749,487</b>  | <b>—</b>                     | <b>57,916</b>  | <b>58,096</b>     |
| Animals.....                                           | —                        | 700,584           | 704,234           | —                            | 57,916         | 58,096            |
| Other goods.....                                       | 113,785                  | 1,918,649         | 2,045,253         | —                            | —              | —                 |



**17.—Values of Total Exports, Imports Entered for Consumption, and Duties Collected Thereon, at Certain Ports and by Provinces, fiscal years ended Mar. 31, 1933 and 1934.**

NOTE.—The values of imports and exports at the several ports of entry given in the following table indicate that merchandise of the value stated was entered inwards, or passed outwards, at the ports mentioned, but it is not to be inferred that the imports were all for consumption at such ports or that the exports originated there.

| Province and Port.                            | 1933.              |                          |                   | 1934.              |                          |                   |
|-----------------------------------------------|--------------------|--------------------------|-------------------|--------------------|--------------------------|-------------------|
|                                               | Total Exports.     | Imports for Consumption. | Duty Collected.   | Total Exports.     | Imports for Consumption. | Duty Collected.   |
| <b>P. E. Island.</b>                          | \$                 | \$                       | \$                | \$                 | \$                       | \$                |
| <b>Totals, P. E. Island.....</b>              | <b>549,122</b>     | <b>619,533</b>           | <b>78,349</b>     | <b>926,695</b>     | <b>604,516</b>           | <b>68,062</b>     |
| <b>Nova Scotia.</b>                           |                    |                          |                   |                    |                          |                   |
| Halifax.....                                  | 27,493,790         | 9,074,680                | 1,272,804         | 40,500,717         | 11,173,252               | 1,186,403         |
| Liverpool.....                                | 3,118,536          | 120,601                  | 5,755             | 3,336,165          | 92,235                   | 5,705             |
| North Sydney.....                             | 1,432,351          | 204,539                  | 9,247             | 1,395,772          | 194,465                  | 8,013             |
| Sydney.....                                   | 384,819            | 382,472                  | 57,691            | 1,992,355          | 386,642                  | 63,003            |
| Yarmouth.....                                 | 1,321,801          | 419,373                  | 31,805            | 1,229,343          | 558,230                  | 22,565            |
| <b>Totals, Nova Scotia<sup>1</sup>.....</b>   | <b>37,135,994</b>  | <b>11,776,386</b>        | <b>1,549,406</b>  | <b>51,908,682</b>  | <b>13,852,175</b>        | <b>1,452,707</b>  |
| <b>New Brunswick.</b>                         |                    |                          |                   |                    |                          |                   |
| Campbellton.....                              | 2,662,407          | 381,992                  | 19,083            | 3,558,113          | 511,480                  | 26,968            |
| Fredericton.....                              | —                  | 741,666                  | 215,584           | —                  | 850,973                  | 198,293           |
| McAdam Junction.....                          | 1,828,293          | 31,407                   | 3,315             | 2,324,994          | 29,059                   | 3,307             |
| Moncton.....                                  | 158,140            | 710,803                  | 174,087           | 181,690            | 747,657                  | 148,477           |
| Saint John.....                               | 24,415,473         | 7,333,418                | 1,049,470         | 33,209,104         | 8,113,477                | 1,252,248         |
| Woodstock.....                                | 3,916,610          | 266,462                  | 20,278            | 4,541,681          | 315,419                  | 45,641            |
| <b>Totals, New Brunswick<sup>1</sup>.....</b> | <b>33,901,136</b>  | <b>10,207,091</b>        | <b>1,557,546</b>  | <b>44,901,182</b>  | <b>11,614,397</b>        | <b>1,785,280</b>  |
| <b>Quebec.</b>                                |                    |                          |                   |                    |                          |                   |
| Athelstan.....                                | 4,953,903          | 743,921                  | 74,804            | 5,767,054          | 660,093                  | 77,174            |
| Chicoutimi.....                               | 6,404,460          | 1,435,033                | 41,653            | 7,831,785          | 1,717,602                | 40,633            |
| Coaticook.....                                | 2,349,991          | 158,972                  | 12,783            | 2,303,040          | 151,836                  | 16,040            |
| Drummondville.....                            | —                  | 1,701,688                | 120,122           | 14,421             | 2,425,494                | 180,483           |
| Granby.....                                   | —                  | 653,749                  | 112,124           | —                  | 635,696                  | 103,063           |
| Hull.....                                     | —                  | 915,508                  | 79,804            | —                  | 1,415,282                | 99,900            |
| Montreal.....                                 | 122,974,026        | 105,277,223              | 20,371,304        | 134,350,561        | 105,195,992              | 17,910,341        |
| Quebec.....                                   | 7,411,631          | 6,187,136                | 974,377           | 20,341,615         | 6,244,381                | 822,853           |
| Rock Island.....                              | 1,320,397          | 644,594                  | 40,483            | 2,215,062          | 872,451                  | 49,267            |
| St. Armand.....                               | 6,892,567          | 317,316                  | 22,833            | 7,220,134          | 118,714                  | 8,276             |
| St. Hyacinthe.....                            | 1,870              | 1,374,320                | 96,848            | 855                | 1,763,784                | 86,401            |
| St. Johns.....                                | 17,978,733         | 4,116,252                | 558,991           | 24,689,897         | 4,058,003                | 685,001           |
| Shawinigan Falls.....                         | —                  | 1,788,600                | 97,889            | —                  | 1,801,588                | 68,664            |
| Sherbrooke.....                               | 127,577            | 2,522,308                | 270,677           | 163,022            | 3,148,077                | 319,859           |
| Sorel.....                                    | 7,250,807          | 865,087                  | 51,724            | 6,570,071          | 658,719                  | 37,119            |
| Sutton.....                                   | 2,627,783          | 97,842                   | 16,794            | 3,781,593          | 97,585                   | 20,301            |
| Three Rivers.....                             | 2,875,616          | 1,977,262                | 153,926           | 3,810,856          | 2,855,337                | 219,729           |
| <b>Totals, Quebec<sup>1</sup>.....</b>        | <b>184,073,418</b> | <b>131,984,375</b>       | <b>23,148,424</b> | <b>220,732,775</b> | <b>135,424,347</b>       | <b>20,808,787</b> |
| <b>Ontario.</b>                               |                    |                          |                   |                    |                          |                   |
| Amherstburg.....                              | 808,001            | 674,154                  | 164,565           | 73,826             | 693,617                  | 135,236           |
| Belleville.....                               | 988                | 734,053                  | 203,845           | —                  | 788,873                  | 196,782           |
| Brantford.....                                | 7,264              | 2,161,637                | 253,148           | 8,967              | 2,241,193                | 246,049           |
| Brockville.....                               | 82,785             | 471,768                  | 72,793            | 27,193             | 444,277                  | 61,653            |
| Chatham.....                                  | 210                | 2,197,289                | 687,418           | —                  | 2,295,101                | 728,431           |
| Cobourg.....                                  | 717,848            | 1,103,854                | 338,301           | 557,670            | 1,280,399                | 228,815           |
| Cornwall.....                                 | 604,223            | 1,160,478                | 117,855           | 675,512            | 2,183,909                | 253,915           |
| Fort Erie (Bridgeburg).....                   | 16,960,403         | 1,943,544                | 285,136           | 29,464,431         | 2,131,311                | 303,071           |
| Fort Frances.....                             | 5,363,939          | 846,914                  | 170,872           | 5,521,998          | 306,512                  | 74,455            |
| Fort William.....                             | 9,735,050          | 1,762,284                | 500,064           | 12,043,911         | 1,792,876                | 546,539           |
| Galt.....                                     | 2,203              | 2,308,354                | 222,712           | 1,007              | 3,055,977                | 211,374           |
| Guelph.....                                   | —                  | 1,559,245                | 185,898           | 2,508              | 2,511,795                | 190,054           |
| Hamilton.....                                 | 173,189            | 14,328,874               | 2,735,901         | 211,170            | 15,901,571               | 2,695,564         |
| Kingston.....                                 | 763,180            | 935,255                  | 173,793           | 101,909            | 961,765                  | 153,200           |
| Kitchener.....                                | 812                | 2,758,404                | 382,852           | 3,106              | 4,263,357                | 438,584           |

<sup>1</sup>To also include other smaller ports.

**17.—Values of Total Exports, Imports Entered for Consumption, and Duties Collected Thereon, at Certain Ports and by Provinces, fiscal years ended Mar. 31, 1933 and 1934—concluded.**

| Province and Port.                                                 | 1933.              |                          |                   | 1934.              |                          |                   |
|--------------------------------------------------------------------|--------------------|--------------------------|-------------------|--------------------|--------------------------|-------------------|
|                                                                    | Total Exports.     | Imports for Consumption. | Duty Collected.   | Total Exports.     | Imports for Consumption. | Duty Collected.   |
|                                                                    | \$                 | \$                       | \$                | \$                 | \$                       | \$                |
| <b>Ontario—concluded.</b>                                          |                    |                          |                   |                    |                          |                   |
| London.....                                                        | —                  | 4,529,012                | 868,165           | —                  | 4,750,640                | 745,735           |
| Niagara Falls.....                                                 | 24,032,021         | 3,909,326                | 874,912           | 32,168,821         | 4,226,321                | 725,274           |
| North Bay.....                                                     | —                  | 1,610,243                | 284,950           | —                  | 2,238,192                | 280,075           |
| Oshawa.....                                                        | 905                | 4,089,993                | 894,285           | 323                | 5,770,051                | 1,254,016         |
| Ottawa.....                                                        | 300                | 4,629,980                | 990,448           | 10                 | 4,754,325                | 861,002           |
| Parry Sound.....                                                   | 321,008            | 393,780                  | 257,119           | 366,203            | 468,463                  | 290,907           |
| Peterborough.....                                                  | 277                | 2,483,537                | 696,313           | 467                | 2,504,764                | 289,878           |
| Port Arthur.....                                                   | 16,218,466         | 932,826                  | 134,902           | 18,404,111         | 709,327                  | 98,755            |
| Prescott.....                                                      | 2,768,734          | 1,102,885                | 315,437           | 2,544,134          | 1,360,265                | 331,669           |
| St. Catharines.....                                                | 4,254,335          | 2,462,845                | 401,206           | 3,975,845          | 2,397,018                | 346,821           |
| St. Thomas.....                                                    | 3,796              | 932,087                  | 182,969           | 24,620             | 911,761                  | 206,035           |
| Sarnia.....                                                        | 8,571,434          | 8,296,410                | 426,460           | 14,094,689         | 8,440,696                | 516,806           |
| Sault Ste. Marie.....                                              | 4,131,046          | 1,115,921                | 347,741           | 4,987,973          | 1,311,413                | 467,186           |
| Stratford.....                                                     | —                  | 978,401                  | 160,161           | —                  | 950,776                  | 144,042           |
| Sudbury.....                                                       | —                  | 371,533                  | 56,370            | —                  | 878,089                  | 70,687            |
| Tillsonburg.....                                                   | 6,198              | 356,944                  | 172,787           | 16,019             | 335,927                  | 171,689           |
| Toronto.....                                                       | 372,061            | 88,072,630               | 19,178,190        | 577,551            | 90,792,038               | 17,647,384        |
| Welland.....                                                       | 331,999            | 3,409,388                | 321,457           | 1,022,560          | 5,432,755                | 383,923           |
| Windsor.....                                                       | 15,831,967         | 19,885,040               | 4,606,685         | 25,570,352         | 22,939,485               | 5,640,397         |
| Woodstock.....                                                     | 23                 | 718,703                  | 105,035           | 115                | 680,942                  | 83,521            |
| <b>Totals, Ontario<sup>1</sup>.....</b>                            | <b>112,346,028</b> | <b>190,418,771</b>       | <b>38,453,160</b> | <b>152,640,422</b> | <b>210,310,068</b>       | <b>37,678,448</b> |
| <b>Manitoba.</b>                                                   |                    |                          |                   |                    |                          |                   |
| Brandon.....                                                       | 13,163             | 267,850                  | 52,384            | 31,283             | 572,962                  | 41,464            |
| Emerson.....                                                       | 3,204,876          | 741,658                  | 65,380            | 5,470,574          | 684,371                  | 67,191            |
| Winnipeg.....                                                      | 1,651,863          | 12,926,523               | 3,188,909         | 2,468,769          | 13,050,600               | 2,768,646         |
| <b>Totals, Manitoba<sup>1</sup>.....</b>                           | <b>4,876,761</b>   | <b>13,949,286</b>        | <b>3,308,371</b>  | <b>7,975,649</b>   | <b>14,322,335</b>        | <b>2,874,606</b>  |
| <b>Saskatchewan.</b>                                               |                    |                          |                   |                    |                          |                   |
| Moose Jaw.....                                                     | 12,113             | 554,862                  | 91,205            | 10,503             | 585,352                  | 74,377            |
| North Portal.....                                                  | 1,428,887          | 138,490                  | 21,654            | 2,379,869          | 104,944                  | 17,380            |
| Regina.....                                                        | 5,616              | 3,239,258                | 529,456           | 6,058              | 2,928,685                | 477,658           |
| Saskatoon.....                                                     | —                  | 876,790                  | 195,300           | —                  | 754,712                  | 170,933           |
| <b>Totals, Saskatchewan<sup>1</sup>.....</b>                       | <b>1,446,616</b>   | <b>4,891,540</b>         | <b>856,078</b>    | <b>2,396,430</b>   | <b>4,462,697</b>         | <b>759,090</b>    |
| <b>Alberta.</b>                                                    |                    |                          |                   |                    |                          |                   |
| Calgary.....                                                       | —                  | 2,853,080                | 645,999           | —                  | 2,586,332                | 556,641           |
| Edmonton.....                                                      | —                  | 2,022,851                | 555,276           | —                  | 2,106,625                | 596,135           |
| Lethbridge.....                                                    | 442,157            | 1,440,647                | 121,125           | 553,497            | 1,669,101                | 76,731            |
| <b>Totals, Alberta<sup>1</sup>.....</b>                            | <b>442,157</b>     | <b>6,420,955</b>         | <b>1,345,290</b>  | <b>553,497</b>     | <b>6,471,251</b>         | <b>1,250,170</b>  |
| <b>British Columbia.</b>                                           |                    |                          |                   |                    |                          |                   |
| Nanaimo.....                                                       | 2,574,136          | 47,777                   | 9,256             | 4,828,240          | 111,062                  | 15,553            |
| Nelson.....                                                        | 28,813             | 626,755                  | 42,850            | 120,775            | 396,482                  | 47,318            |
| New Westminster.....                                               | 13,525,493         | 821,022                  | 84,312            | 20,929,237         | 1,104,873                | 176,200           |
| Prince Rupert.....                                                 | 5,229,999          | 450,450                  | 76,965            | 4,189,330          | 473,484                  | 93,949            |
| Vancouver.....                                                     | 80,303,097         | 30,680,607               | 5,635,969         | 67,054,861         | 30,972,029               | 5,098,028         |
| Victoria.....                                                      | 2,347,719          | 2,906,425                | 779,001           | 5,124,871          | 3,141,884                | 746,638           |
| <b>Totals, British Columbia<sup>1</sup>.....</b>                   | <b>104,346,748</b> | <b>35,849,617</b>        | <b>6,679,149</b>  | <b>102,624,944</b> | <b>36,536,583</b>        | <b>6,224,435</b>  |
| <b>Yukon.</b>                                                      |                    |                          |                   |                    |                          |                   |
| <b>Totals, Yukon.....</b>                                          | <b>1,595,817</b>   | <b>238,775</b>           | <b>53,277</b>     | <b>994,194</b>     | <b>177,870</b>           | <b>43,562</b>     |
| Prepaid postal parcels, duty received through P.O. Department..... | —                  | 27,415                   | 8,546             | —                  | 22,336                   | 5,667             |
| Customs duty stamps.....                                           | —                  | —                        | 234,369           | —                  | —                        | 203,661           |
| <b>Grand Totals.....</b>                                           | <b>480,713,797</b> | <b>406,383,744</b>       | <b>77,271,965</b> | <b>585,654,469</b> | <b>433,798,625</b>       | <b>73,154,472</b> |

<sup>1</sup>Totals include other smaller ports.

**18.—Imports of Canada, by Values Entered for Consumption from British Empire and Foreign Countries, Dutiable and Free, under the General, Preferential and Treaty Rate Tariffs, fiscal year ended Mar. 31, 1934.**

NOTE.—A similar analysis for the fiscal year 1933 will be found at pp. 48-49 of the Annual Report on the Trade of Canada, 1933, published by the Dominion Bureau of Statistics.

| Country.                                            | Dutiable under—    |                      |                   | Free under—        |                      |                | Total Imports.     |
|-----------------------------------------------------|--------------------|----------------------|-------------------|--------------------|----------------------|----------------|--------------------|
|                                                     | General Tariff.    | Preferential Tariff. | Treaty Tariff.    | General Tariff.    | Preferential Tariff. | Treaty Tariff. |                    |
|                                                     | \$                 | \$                   | \$                | \$                 | \$                   | \$             | \$                 |
| <b>British Empire.</b>                              |                    |                      |                   |                    |                      |                |                    |
| United Kingdom.....                                 | 1,681,775          | 54,876,803           | 479,218           | 8,397,425          | 39,665,543           | —              | 105,100,764        |
| Irish Free State.....                               | 171                | 12,006               | —                 | 1,778              | 17,786               | —              | 31,741             |
| Africa—British East.....                            | 10,677             | 61,676               | —                 | 160,908            | 695,282              | —              | 928,543            |
| British South.....                                  | 1,919              | 3,369,310            | 10,148            | 33,648             | 216,780              | 9,456          | 3,641,261          |
| British West.....                                   | 6,766              | —                    | 147,174           | 210,300            | 142,919              | —              | 507,159            |
| Australia.....                                      | 9,264              | 1,109,047            | 473,287           | 257,966            | 3,464,263            | 92,755         | 5,406,582          |
| British East Indies—                                |                    |                      |                   |                    |                      |                |                    |
| British India.....                                  | 84,400             | 2,861,100            | 897               | 213,045            | 2,782,421            | —              | 5,941,863          |
| Ceylon.....                                         | 2,024              | 1,270,614            | 38                | 1,593              | 135,690              | —              | 1,409,959          |
| Straits Settlements.....                            | 15,870             | 404,730              | 3,163             | 68,138             | 509,977              | —              | 1,001,878          |
| British Guiana.....                                 | 5,848              | 1,221,133            | —                 | 817                | 161,385              | —              | 1,389,183          |
| British West Indies—                                |                    |                      |                   |                    |                      |                |                    |
| Barbados.....                                       | 1,250              | 1,428,670            | —                 | 1,093              | 1,695,844            | —              | 3,126,857          |
| Jamaica.....                                        | 9,069              | 708,208              | 1,418             | 14,747             | 1,906,844            | —              | 2,640,286          |
| Trinidad and Tobago.....                            | 2,776              | 1,478,500            | 16,477            | 25,167             | 463,796              | —              | 1,986,716          |
| Other.....                                          | 2,426              | 707,677              | —                 | 53,026             | 593,960              | —              | 1,357,089          |
| Fiji.....                                           | 195                | 1,646,641            | —                 | 25                 | 463                  | —              | 1,647,324          |
| Hong Kong.....                                      | 482,763            | —                    | 12,629            | 128,944            | —                    | —              | 624,336            |
| Newfoundland.....                                   | 14,970             | 4,297                | 661               | 600,893            | 9,279                | —              | 630,070            |
| New Zealand.....                                    | 18,995             | 11,579               | 150,636           | 929,752            | 1,449,970            | 14,226         | 2,575,158          |
| <b>Totals, British Empire<sup>1</sup></b>           | <b>2,385,199</b>   | <b>71,174,028</b>    | <b>1,295,746</b>  | <b>11,135,070</b>  | <b>54,297,406</b>    | <b>116,437</b> | <b>140,493,886</b> |
| <b>Foreign Countries.</b>                           |                    |                      |                   |                    |                      |                |                    |
| Argentina.....                                      | 345,131            | —                    | 796,301           | 908,131            | —                    | —              | 2,049,563          |
| Belgium.....                                        | 1,124,211          | —                    | 1,210,361         | 861,919            | —                    | 3,677          | 3,200,168          |
| China.....                                          | 1,579,105          | —                    | —                 | 751,454            | —                    | —              | 2,330,559          |
| Colombia.....                                       | 616,309            | —                    | —                 | 2,953,398          | —                    | —              | 3,569,707          |
| Czechoslovakia.....                                 | 309,093            | —                    | 1,054,172         | 40,207             | —                    | —              | 1,403,472          |
| Denmark.....                                        | 14,572             | —                    | 23,633            | 256,265            | —                    | —              | 294,470            |
| France.....                                         | 1,876,119          | —                    | 3,902,841         | 1,061,547          | —                    | 57,904         | 6,898,411          |
| Germany.....                                        | 4,065,348          | —                    | 3,663,263         | 2,194,069          | —                    | 24             | 9,922,704          |
| Italy.....                                          | 526,595            | —                    | 1,303,722         | 749,633            | —                    | —              | 2,579,950          |
| Japan.....                                          | 1,199,831          | —                    | 1,039,474         | 1,071,906          | —                    | 476            | 3,311,687          |
| Netherlands.....                                    | 1,001,614          | —                    | 704,156           | 1,535,899          | —                    | —              | 3,241,669          |
| Norway.....                                         | 20,603             | —                    | 373,333           | 137,351            | —                    | —              | 531,287            |
| Peru.....                                           | 200,902            | —                    | —                 | 3,378,824          | —                    | —              | 3,579,726          |
| Spain.....                                          | 250,864            | —                    | 755,758           | 122,133            | —                    | —              | 1,128,755          |
| Sweden.....                                         | 233,591            | —                    | 620,669           | 237,200            | —                    | 46,983         | 1,138,443          |
| Switzerland.....                                    | 1,255,042          | —                    | 1,242,303         | 310,963            | —                    | —              | 2,808,308          |
| United States.....                                  | 139,955,233        | —                    | —                 | 98,232,448         | —                    | —              | 238,187,681        |
| <b>Totals, Foreign Countries<sup>1</sup></b>        | <b>158,428,440</b> | <b>—</b>             | <b>17,192,999</b> | <b>117,664,236</b> | <b>—</b>             | <b>109,064</b> | <b>293,394,739</b> |
| <b>Totals, Imports Entered for Consumption.....</b> | <b>160,813,639</b> | <b>71,174,028</b>    | <b>18,488,745</b> | <b>128,799,306</b> | <b>54,297,406</b>    | <b>225,501</b> | <b>433,798,625</b> |

<sup>1</sup>Totals include other minor countries not specified.

**19.—Values of Imports into Canada of Merchandise Entered for Consumption, from the British Empire and from Foreign Countries, fiscal years ended Mar. 31, 1930-34.**

| Country.                 | 1930.       | 1931.       | 1932.       | 1933.      | 1934.       |
|--------------------------|-------------|-------------|-------------|------------|-------------|
|                          | \$          | \$          | \$          | \$         | \$          |
| <b>British Empire.</b>   |             |             |             |            |             |
| United Kingdom.....      | 189,179,738 | 149,497,392 | 106,371,779 | 86,466,055 | 105,100,764 |
| Irish Free State.....    | 267,905     | 678,115     | 45,511      | 36,360     | 31,741      |
| Aden.....                | 12,510      | 8,734       | 6,155       | 3,091      | 8,021       |
| Africa—British East..... | 1,982,243   | 2,082,125   | 1,436,338   | 724,978    | 928,543     |
| British South.....       | 824,025     | 3,329,528   | 4,323,169   | 4,907,064  | 3,641,261   |
| Southern Rhodesia.....   | —           | —           | —           | —          | 936         |
| British West.....        | 1,321,906   | 1,156,779   | 323,678     | 169,075    | 507,159     |

**19.—Values of Imports into Canada of Merchandise Entered for Consumption, from the British Empire and from Foreign Countries, fiscal years ended Mar. 31, 1930-34—continued.**

| Country.                                       | 1930.              | 1931.              | 1932.              | 1933.              | 1934.              |
|------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                                | \$                 | \$                 | \$                 | \$                 | \$                 |
| <b>British Empire—concluded.</b>               |                    |                    |                    |                    |                    |
| Bermuda.....                                   | 93,460             | 297,004            | 95,729             | 182,740            | 163,066            |
| British East Indies—British India.....         | 9,032,740          | 8,426,716          | 5,099,736          | 4,094,201          | 5,941,863          |
| Ceylon.....                                    | 2,600,423          | 2,708,845          | 1,573,916          | 1,081,022          | 1,409,959          |
| Straits Settlements.....                       | 1,536,879          | 766,862            | 550,777            | 386,424            | 1,001,878          |
| Other.....                                     | 170                | 16,971             | 14,519             | 1,855              | 7,730              |
| British Guiana.....                            | 3,982,493          | 4,288,157          | 4,541,922          | 2,299,814          | 1,399,183          |
| British Honduras.....                          | 340,577            | 207,186            | 105,780            | 50,519             | 144,820            |
| British Sudan.....                             | 3,414              | 25,356             | 8,068              | 5,511              | 5,655              |
| British West Indies—Barbados.....              | 4,675,158          | 4,264,508          | 2,673,435          | 2,856,835          | 3,126,857          |
| Jamaica.....                                   | 5,194,973          | 4,792,599          | 4,406,024          | 3,194,364          | 2,640,286          |
| Trinidad and Tobago.....                       | 2,590,157          | 2,321,007          | 3,124,902          | 2,428,252          | 1,986,716          |
| Other.....                                     | 1,201,625          | 2,571,905          | 1,560,516          | 1,235,476          | 1,357,089          |
| Hong Kong.....                                 | 1,259,085          | 833,608            | 660,939            | 515,614            | 624,336            |
| Malta, Cyprus and Gozo.....                    | 1,627              | 4,322              | 1,026              | 429                | 142                |
| Newfoundland.....                              | 2,378,103          | 2,501,761          | 1,483,881          | 545,527            | 630,070            |
| Oceania—Australia.....                         | 4,211,351          | 4,616,722          | 5,696,770          | 5,902,587          | 5,406,582          |
| Fiji.....                                      | 3,676,604          | 2,807,355          | 2,606,430          | 2,218,351          | 1,647,324          |
| New Zealand.....                               | 16,282,719         | 6,671,252          | 1,080,230          | 969,704            | 2,575,158          |
| Palestine.....                                 | 24,717             | 23,617             | 20,753             | 108,476            | 126,747            |
| <b>Totals, British Empire<sup>1</sup>.....</b> | <b>252,674,602</b> | <b>204,898,426</b> | <b>147,811,993</b> | <b>120,384,324</b> | <b>140,403,866</b> |
| <b>Foreign Countries.</b>                      |                    |                    |                    |                    |                    |
| Abyssinia.....                                 | 35,683             | 30,396             | 23,007             | 7,973              | 11,879             |
| Argentina.....                                 | 10,232,327         | 6,739,697          | 2,608,363          | 894,982            | 2,049,563          |
| Austria.....                                   | 797,370            | 595,319            | 322,872            | 179,707            | 216,557            |
| Belgium.....                                   | 13,019,006         | 8,420,019          | 5,047,721          | 3,642,518          | 3,200,168          |
| Brazil.....                                    | 1,687,707          | 1,349,124          | 982,544            | 591,141            | 626,586            |
| Chile.....                                     | 667,126            | 428,310            | 109,935            | 21,443             | 8,323              |
| China.....                                     | 2,977,022          | 4,810,814          | 3,725,558          | 1,605,452          | 2,330,559          |
| Colombia.....                                  | 2,752,691          | 5,036,808          | 5,035,311          | 3,365,508          | 3,569,707          |
| Costa Rica.....                                | 136,934            | 89,652             | 27,361             | 43,222             | 35,774             |
| Cuba.....                                      | 3,510,227          | 2,408,647          | 981,091            | 708,824            | 1,063,239          |
| Czechoslovakia.....                            | 3,792,389          | 3,176,387          | 2,759,864          | 1,769,044          | 1,403,472          |
| Denmark.....                                   | 178,660            | 265,642            | 89,266             | 126,605            | 294,470            |
| Greenland.....                                 | 168,376            | 179,200            | 170,200            | 1,918              | 183,259            |
| Ecuador.....                                   | —                  | —                  | 399                | 5,024              | 15,715             |
| Egypt.....                                     | 155,852            | 77,257             | 269,503            | 407,581            | 701,155            |
| Finland.....                                   | 91,273             | 90,408             | 56,578             | 53,976             | 42,088             |
| France.....                                    | 25,158,207         | 19,004,102         | 13,570,141         | 7,712,558          | 6,898,411          |
| French Africa.....                             | 113,329            | 107,561            | 130,168            | 52,091             | 85,266             |
| French East Indies.....                        | 12,685             | 34,748             | 19,249             | 3,405              | 3,823              |
| St. Pierre and Miquelon.....                   | 64,169             | 636,415            | 107,081            | 86,652             | 191,039            |
| Germany.....                                   | 21,505,428         | 16,197,036         | 11,657,869         | 9,088,905          | 9,922,704          |
| Greece.....                                    | 374,266            | 233,794            | 104,492            | 45,041             | 49,405             |
| Guatemala.....                                 | 37,598             | 30,673             | 14,914             | 14,629             | 6,330              |
| Haiti.....                                     | 70,783             | —                  | 45                 | 336                | 1,029              |
| Honduras.....                                  | 352,805            | 4,280              | 290                | 1,256              | 24,990             |
| Hungary.....                                   | 47,744             | 66,817             | 18,802             | 24,274             | 58,987             |
| Iraq (Mesopotamia).....                        | 29,102             | 45,525             | 98,340             | 156,024            | 189,229            |
| Italy.....                                     | 4,963,694          | 5,048,957          | 4,193,437          | 2,806,361          | 2,579,590          |
| Japan.....                                     | 12,537,253         | 9,342,967          | 5,990,401          | 3,860,911          | 3,311,687          |
| Latvia.....                                    | 4,317              | 615                | 5,451              | 4,676              | 12,060             |
| Mexico.....                                    | 749,645            | 769,323            | 788,447            | 880,841            | 404,943            |
| Morocco.....                                   | 48,556             | 32,159             | 55,045             | 78,642             | 14,786             |
| Netherlands.....                               | 9,432,608          | 7,287,132          | 5,827,969          | 3,715,998          | 3,241,669          |
| Dutch East Indies.....                         | 630,120            | 440,546            | 340,807            | 224,997            | 561,251            |
| Dutch West Indies.....                         | 441,151            | 1,838,964          | 1,499,701          | 1,557,788          | 867,486            |
| Nicaragua.....                                 | 28,152             | 29,212             | 4,278              | 586                | —                  |
| Norway.....                                    | 1,104,935          | 820,902            | 548,998            | 452,903            | 531,287            |
| Paraguay.....                                  | —                  | 21,229             | 27,057             | —                  | 15                 |
| Persia.....                                    | 246,954            | 106,043            | 38,848             | 71,493             | 130,752            |
| Peru.....                                      | 7,492,128          | 4,535,524          | 3,515,589          | 2,573,521          | 3,579,726          |
| Poland and Danzig.....                         | 143,430            | 139,003            | 72,555             | 84,861             | 66,094             |
| Portugal.....                                  | 683,114            | 578,824            | 341,218            | 175,368            | 129,197            |
| Azores and Madeira.....                        | 139,290            | 156,151            | 130,015            | 135,253            | 87,235             |
| Roumania.....                                  | 27,308             | 95,427             | 21,867             | 4,730              | 4,380              |
| Russia.....                                    | 909,525            | 1,917,652          | 18,001             | 539,419            | 104,760            |
| Salvador.....                                  | 14,032             | 1,498              | 1,088              | —                  | —                  |

<sup>1</sup>Totals include other minor countries not specified.



19.—Values of Imports into Canada of Merchandise Entered for Consumption, from the British Empire and from Foreign Countries, fiscal years ended Mar. 31, 1930-34—concluded.

| Country.                                           | 1930.                | 1931.              | 1932.              | 1933.              | 1934.              |
|----------------------------------------------------|----------------------|--------------------|--------------------|--------------------|--------------------|
|                                                    | \$                   | \$                 | \$                 | \$                 | \$                 |
| <b>Foreign Countries—concluded.</b>                |                      |                    |                    |                    |                    |
| Santo Domingo.....                                 | 1,776,772            | 367,872            | 522,884            | 101,310            | 189,006            |
| Siam.....                                          | 51,393               | —                  | —                  | —                  | 22,595             |
| Spain.....                                         | 2,784,059            | 1,960,759          | 1,476,630          | 1,160,753          | 1,128,755          |
| Canary Islands.....                                | 5,568                | 4,300              | 5,046              | 10,989             | 2,759              |
| Sweden.....                                        | 2,259,404            | 2,037,457          | 879,476            | 704,193            | 1,138,443          |
| Switzerland.....                                   | 7,314,840            | 5,484,463          | 3,687,517          | 2,399,635          | 2,808,308          |
| Syria.....                                         | 17,612               | 13,150             | 24,142             | 4,620              | 2,704              |
| Turkey.....                                        | 496,156              | 399,593            | 256,720            | 171,010            | 174,000            |
| United States.....                                 | 847,442,037          | 584,407,018        | 351,686,775        | 232,548,055        | 238,187,681        |
| Alaska.....                                        | 177,692              | 106,099            | 63,292             | 37,799             | 34,552             |
| Hawaii.....                                        | 332,250              | 287,673            | 115,505            | 42,186             | 40,490             |
| Philippines.....                                   | 171,474              | 154,408            | 118,437            | 155,787            | 365,472            |
| Puerto Rico.....                                   | 7,687                | 431                | 1,437              | 1,201              | 1,194              |
| Uruguay.....                                       | 66,147               | 152,424            | 131,344            | 7,104              | 19,908             |
| Venezuela.....                                     | 528,962              | 3,024,584          | 329,026            | 861,835            | 396,533            |
| Yugoslavia.....                                    | 30,938               | 68,911             | 12,080             | 7,908              | 33,005             |
| <b>Totals, Foreign Countries<sup>1</sup></b> ..... | <b>995,598,980</b>   | <b>701,714,269</b> | <b>430,691,911</b> | <b>235,999,429</b> | <b>293,394,739</b> |
| <b>Grand Totals, Imports</b> .....                 | <b>1,248,273,582</b> | <b>906,612,695</b> | <b>578,503,904</b> | <b>406,383,744</b> | <b>433,798,625</b> |
| <b>Imports, by Continents.</b>                     |                      |                    |                    |                    |                    |
| Europe—United Kingdom.....                         | 189,179,738          | 149,497,392        | 106,371,779        | 86,466,055         | 105,100,764        |
| Other Europe.....                                  | 95,548,297           | 74,339,207         | 50,898,616         | 34,873,626         | 34,000,977         |
| North America.....                                 | 871,452,695          | 607,825,326        | 369,322,592        | 246,478,559        | 251,249,768        |
| South America.....                                 | 31,937,716           | 25,575,947         | 17,281,500         | 10,620,427         | 11,655,811         |
| Asia.....                                          | 31,142,067           | 28,133,865         | 18,539,314         | 12,444,578         | 16,212,647         |
| Oceania.....                                       | 24,502,924           | 14,383,002         | 9,498,935          | 9,133,325          | 9,671,789          |
| Africa.....                                        | 4,510,145            | 6,857,956          | 6,591,168          | 6,367,174          | 5,908,869          |

<sup>1</sup>Totals include other minor countries not specified.

20.—Values of Exports of Canadian Produce, from Canada to the British Empire and to Foreign Countries, fiscal years ended Mar. 31, 1930-34.

| Country.                                        | 1930.              | 1931.              | 1932.              | 1933.              | 1934.              |
|-------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                                 | \$                 | \$                 | \$                 | \$                 | \$                 |
| <b>British Empire.</b>                          |                    |                    |                    |                    |                    |
| United Kingdom.....                             | 281,745,965        | 219,246,499        | 174,043,725        | 184,361,019        | 227,601,411        |
| Irish Free State.....                           | 2,711,544          | 2,764,489          | 2,661,421          | 2,247,162          | 3,514,785          |
| Aden.....                                       | 63,355             | 33,265             | 9,519              | 18,692             | 34,753             |
| Africa—British East.....                        | 1,707,167          | 968,898            | 372,388            | 409,276            | 525,434            |
| British South.....                              | 10,917,642         | 10,286,940         | 8,401,496          | 4,001,538          | 7,286,544          |
| Southern Rhodesia.....                          | —                  | —                  | —                  | —                  | 393,002            |
| British West.....                               | 1,083,269          | 924,149            | 400,062            | 303,296            | 348,097            |
| Bermuda.....                                    | 2,287,280          | 2,492,260          | 1,948,898          | 1,587,002          | 1,146,065          |
| British East Indies—British India.....          | 9,116,251          | 6,957,050          | 3,041,522          | 2,414,586          | 3,743,360          |
| Ceylon.....                                     | 486,236            | 181,653            | 59,183             | 62,744             | 109,411            |
| Straits Settlements.....                        | 1,105,228          | 685,381            | 340,072            | 388,438            | 681,682            |
| British Guiana.....                             | 1,661,332          | 1,139,915          | 778,469            | 806,550            | 800,578            |
| British Honduras.....                           | 892,518            | 1,742,464          | 1,008,412          | 665,922            | 256,869            |
| British Sudan.....                              | 95,093             | 13,971             | 1,576              | 318                | 52,402             |
| British West Indies—Barbados.....               | 1,324,569          | 1,118,603          | 1,092,425          | 1,049,944          | 1,056,146          |
| Jamaica.....                                    | 5,138,757          | 3,749,394          | 2,634,699          | 2,430,410          | 2,633,019          |
| Trinidad and Tobago.....                        | 3,998,197          | 3,286,070          | 2,147,637          | 1,773,239          | 1,997,460          |
| Other.....                                      | 4,567,639          | 4,273,905          | 2,998,372          | 1,714,122          | 1,353,324          |
| Gibraltar.....                                  | 71,491             | 41,978             | 9,622              | 10,272             | 9,935              |
| Hong Kong.....                                  | 2,000,124          | 1,961,884          | 1,434,659          | 1,062,243          | 1,253,866          |
| Malta, Cyprus and Gozo.....                     | 318,853            | 537,741            | 297,512            | 101,540            | 188,871            |
| Newfoundland.....                               | 12,178,392         | 10,658,637         | 6,601,852          | 5,644,225          | 6,130,698          |
| Oceania—Australia.....                          | 16,322,771         | 6,788,708          | 5,387,982          | 7,312,574          | 12,138,869         |
| Fiji.....                                       | 431,211            | 212,682            | 123,376            | 101,397            | 176,741            |
| New Zealand.....                                | 19,166,488         | 12,688,475         | 3,724,225          | 3,608,500          | 4,480,219          |
| Palestine.....                                  | 98,934             | 83,980             | 29,043             | 35,220             | 99,621             |
| <b>Totals, British Empire<sup>1</sup></b> ..... | <b>379,571,138</b> | <b>292,864,396</b> | <b>218,956,387</b> | <b>222,118,927</b> | <b>278,025,134</b> |

<sup>1</sup>Totals include other minor countries not specified.

20.—Values of Exports of Canadian Produce, from Canada to the British Empire and to Foreign Countries, fiscal years ended Mar. 31, 1930-34—concluded.

| Country.                                   | 1930.                | 1931.              | 1932.              | 1933.              | 1934.              |
|--------------------------------------------|----------------------|--------------------|--------------------|--------------------|--------------------|
| Foreign Countries.                         | \$                   | \$                 | \$                 | \$                 | \$                 |
| Argentina.....                             | 19,206,746           | 10,007,794         | 4,344,735          | 2,509,585          | 2,793,801          |
| Austria.....                               | 435,770              | 234,878            | 101,143            | 6,623              | 31,268             |
| Belgium.....                               | 21,692,858           | 14,962,044         | 14,036,437         | 14,490,399         | 12,538,143         |
| Belgian Congo.....                         | 322,837              | 93,313             | 47,957             | 20,691             | 37,979             |
| Bolivia.....                               | 132,315              | 42,964             | 91,704             | 65,557             | 245,225            |
| Brazil.....                                | 4,292,293            | 2,799,567          | 979,854            | 1,394,230          | 1,758,380          |
| Chile.....                                 | 2,280,003            | 1,057,410          | 405,359            | 138,581            | 276,533            |
| China.....                                 | 16,527,959           | 9,122,190          | 5,908,133          | 7,669,228          | 5,395,970          |
| Colombia.....                              | 1,643,048            | 1,191,940          | 533,891            | 389,296            | 421,184            |
| Costa Rica.....                            | 97,617               | 61,232             | 45,078             | 46,442             | 71,219             |
| Cuba.....                                  | 4,245,576            | 2,868,103          | 1,637,676          | 830,177            | 993,019            |
| Czechoslovakia.....                        | 478,847              | 252,041            | 173,098            | 111,891            | 71,910             |
| Denmark.....                               | 4,108,704            | 3,604,492          | 3,875,680          | 2,694,212          | 2,160,467          |
| Ecuador.....                               | 111,674              | 59,199             | 29,846             | 24,753             | 60,300             |
| Egypt.....                                 | 1,028,530            | 781,305            | 173,201            | 186,008            | 179,578            |
| Finland.....                               | 1,331,652            | 1,388,556          | 666,459            | 262,728            | 328,539            |
| France.....                                | 16,507,011           | 13,285,758         | 17,954,321         | 12,730,286         | 11,907,478         |
| French Africa.....                         | 612,653              | 561,185            | 343,758            | 91,199             | 61,223             |
| French Guiana.....                         | 95,284               | 47,791             | 43,338             | 46,369             | 60,620             |
| French Oceania.....                        | 51,301               | 232,001            | 753,642            | 899,806            | 81,940             |
| French West Indies.....                    | 537,990              | 374,382            | 249,904            | 129,409            | 82,151             |
| St. Pierre and Miquelon.....               | 5,859,251            | 11,004,479         | 8,642,119          | 7,593,203          | 4,346,925          |
| Germany.....                               | 25,343,681           | 12,942,236         | 10,405,256         | 8,057,105          | 10,588,450         |
| Greece.....                                | 5,387,067            | 5,642,245          | 2,412,035          | 341,521            | 138,313            |
| Guatemala.....                             | 172,877              | 140,591            | 153,543            | 91,596             | 122,975            |
| Haiti.....                                 | 142,578              | 90,891             | 83,299             | 77,637             | 151,528            |
| Honduras.....                              | 143,701              | 133,917            | 111,058            | 108,906            | 115,228            |
| Iraq (Mesopotamia).....                    | 79,180               | 19,749             | 5,231              | 4,236              | 30,578             |
| Italy.....                                 | 11,387,294           | 14,552,319         | 4,265,324          | 4,126,362          | 3,543,315          |
| Japan.....                                 | 30,475,584           | 18,958,965         | 16,555,690         | 10,327,492         | 13,802,760         |
| Korea.....                                 | 18,509               | 9,961              | 10,237             | 2,248              | 112,407            |
| Mexico.....                                | 2,583,440            | 2,085,576          | 1,366,947          | 1,311,236          | 1,680,766          |
| Morocco.....                               | 306,654              | 160,411            | 71,709             | 161,314            | 58,252             |
| Netherlands.....                           | 15,944,469           | 10,477,553         | 13,502,157         | 16,457,910         | 19,655,271         |
| Dutch East Indies.....                     | 2,279,871            | 953,778            | 507,258            | 292,991            | 412,180            |
| Dutch Guiana.....                          | 102,204              | 78,216             | 63,556             | 40,764             | 45,224             |
| Dutch West Indies.....                     | 264,502              | 193,885            | 53,225             | 71,202             | 76,487             |
| Nicaragua.....                             | 61,999               | 35,758             | 22,363             | 18,810             | 20,003             |
| Norway.....                                | 3,674,985            | 3,305,334          | 3,324,772          | 3,695,335          | 3,912,408          |
| Panama.....                                | 877,780              | 706,085            | 368,323            | 113,047            | 233,430            |
| Persia.....                                | 148,928              | 88,465             | -                  | 5,393              | 14,225             |
| Peru.....                                  | 1,795,003            | 1,579,294          | 628,167            | 721,262            | 926,453            |
| Poland and Danzig.....                     | 85,234               | 60,118             | 35,089             | 31,340             | 71,343             |
| Portugal.....                              | 1,410,606            | 611,643            | 81,472             | 141,112            | 86,616             |
| Azores and Madeira.....                    | 153,946              | 163,393            | 44,743             | 26,330             | 27,853             |
| Portuguese Africa.....                     | 1,210,116            | 1,109,735          | 1,063,283          | 842,446            | 952,519            |
| Roumania.....                              | 449,303              | 49,733             | 22,548             | 57,866             | 14,209             |
| Russia.....                                | 3,738,401            | 568,100            | 55,197             | 1,776,946          | 16,722             |
| Salvador.....                              | 91,432               | 120,990            | 22,619             | 12,673             | 26,061             |
| Santo Domingo.....                         | 227,510              | 243,614            | 262,273            | 180,965            | 178,017            |
| Siam.....                                  | 126,808              | 47,017             | 6,222              | 4,075              | 4,326              |
| Spain.....                                 | 4,503,231            | 1,297,080          | 566,103            | 2,481,717          | 1,822,626          |
| Canary Islands.....                        | 99,048               | 69,760             | 23,264             | 14,017             | 45,151             |
| Sweden.....                                | 4,678,037            | 2,447,205          | 2,385,789          | 2,636,400          | 1,441,030          |
| Switzerland.....                           | 1,197,480            | 561,747            | 280,090            | 212,267            | 275,539            |
| Syria.....                                 | 242,184              | 82,057             | 26,825             | 25,785             | 33,254             |
| Turkey.....                                | 82,679               | 22,303             | 7,714              | 32,206             | 1,363              |
| United States.....                         | 515,049,763          | 349,660,563        | 235,186,674        | 143,160,400        | 194,443,139        |
| Alaska.....                                | 515,626              | 468,978            | 364,147            | 173,388            | 114,469            |
| Hawaii.....                                | 37,576               | 92,248             | 201,083            | 434,540            | 620,675            |
| Philippines.....                           | 266,794              | 236,478            | 296,931            | 347,368            | 616,979            |
| Puerto Rico.....                           | 877,934              | 677,118            | 450,184            | 268,045            | 353,809            |
| Uruguay.....                               | 1,094,771            | 736,658            | 424,927            | 71,721             | 140,273            |
| Venezuela.....                             | 1,286,943            | 1,058,223          | 549,827            | 351,777            | 401,306            |
| Yugoslavia.....                            | 28,658               | 12,916             | 4,185              | 2,016              | 670                |
| <b>Totals, Foreign Countries.....</b>      | <b>710,687,164</b>   | <b>506,878,221</b> | <b>337,387,915</b> | <b>251,681,028</b> | <b>301,318,011</b> |
| <b>Grand Totals, Canadian Exports.....</b> | <b>1,120,258,302</b> | <b>799,742,667</b> | <b>576,344,302</b> | <b>473,799,955</b> | <b>579,343,145</b> |
| <b>Exports, by Continents.</b>             |                      |                    |                    |                    |                    |
| Europe—United Kingdom.....                 | 281,745,965          | 219,246,499        | 174,043,725        | 184,361,019        | 227,601,411        |
| Other Europe.....                          | 125,942,697          | 89,978,203         | 77,223,644         | 72,712,079         | 72,374,404         |
| North America.....                         | 561,270,595          | 395,431,973        | 266,823,563        | 169,055,642        | 217,595,995        |
| South America.....                         | 34,654,797           | 20,564,860         | 8,890,776          | 6,562,273          | 7,930,034          |
| Asia.....                                  | 63,073,797           | 39,452,990         | 28,242,090         | 22,696,286         | 26,353,284         |
| Oceania.....                               | 36,081,304           | 20,039,549         | 10,198,618         | 12,364,161         | 17,508,431         |
| Africa.....                                | 17,489,147           | 15,028,593         | 10,921,886         | 6,048,495          | 9,979,586          |

\*Totals include other minor countries not specified.

21.—Values and Percentages of Canadian Imports and Exports from and to Stated Countries, passing through the United States, fiscal years ended Mar. 31, 1933 and 1934.

| Country whence Imported<br>and to which Exported. | Merchandise Imported<br>through United States. |            |                  |            | Merchandise Exported<br>through United States. |             |                   |             |
|---------------------------------------------------|------------------------------------------------|------------|------------------|------------|------------------------------------------------|-------------|-------------------|-------------|
|                                                   | 1933.                                          |            | 1934.            |            | 1933.                                          |             | 1934.             |             |
|                                                   | \$                                             | p.c.       | \$               | p.c.       | \$                                             | p.c.        | \$                | p.c.        |
| <b>British Empire.</b>                            |                                                |            |                  |            |                                                |             |                   |             |
| United Kingdom.....                               | 222,373                                        | 0.3        | 94,220           | 0.1        | 29,611,608                                     | 16.1        | 30,674,215        | 13.5        |
| Irish Free State.....                             | —                                              | —          | —                | —          | 73,761                                         | 3.3         | 98,837            | 2.8         |
| Australia.....                                    | 938                                            | 0.0        | 13               | 0.0        | 810,171                                        | 11.1        | 2,556,857         | 21.0        |
| Bermuda.....                                      | 14,906                                         | 8.2        | —                | —          | 21,100                                         | 1.3         | 23,122            | 2.0         |
| British South Africa.....                         | 15,328                                         | 0.3        | 5,426            | 0.1        | 775,189                                        | 19.4        | 1,647,875         | 22.6        |
| British East Africa.....                          | —                                              | —          | 3,299            | 0.4        | 173,952                                        | 42.5        | 257,924           | 49.2        |
| British West Africa.....                          | —                                              | —          | —                | —          | 222,176                                        | 73.2        | 268,491           | 77.2        |
| British India.....                                | 4,265                                          | 0.1        | 17,050           | 0.3        | 256,725                                        | 10.6        | 332,225           | 8.9         |
| Ceylon.....                                       | 9,565                                          | 0.9        | 3,513            | 0.2        | 14,567                                         | 23.2        | 32,768            | 29.9        |
| British Guiana.....                               | 48,604                                         | 2.1        | —                | —          | 32,376                                         | 4.0         | 13,489            | 1.7         |
| British Honduras.....                             | 1,915                                          | 3.8        | 2,969            | 2.1        | 17,980                                         | 2.7         | 2,222             | 0.9         |
| British West Indies.....                          | 13,593                                         | 0.1        | 4,872            | 0.0        | 453,225                                        | 6.5         | 436,829           | 6.2         |
| Hong Kong.....                                    | 4,540                                          | 0.9        | 6,505            | 1.0        | 70,385                                         | 6.6         | 180,732           | 14.4        |
| Newfoundland.....                                 | 4,45                                           | 0.0        | 500              | 0.1        | 107,260                                        | 1.9         | 20,115            | 0.3         |
| New Zealand.....                                  | 7,054                                          | 0.7        | 15,699           | 0.6        | 734,544                                        | 20.3        | 656,204           | 14.7        |
| Palestine.....                                    | 738                                            | 0.7        | 2,257            | 1.8        | 27,501                                         | 78.1        | 43,042            | 43.2        |
| Straits Settlements.....                          | 10,777                                         | 2.8        | 120,952          | 12.1       | 244,621                                        | 63.0        | 586,709           | 86.1        |
| <b>Totals, British Empire<sup>1</sup></b>         | <b>355,655</b>                                 | <b>0.3</b> | <b>280,369</b>   | <b>0.2</b> | <b>33,705,290</b>                              | <b>15.2</b> | <b>38,014,790</b> | <b>13.7</b> |
| <b>Foreign Countries.</b>                         |                                                |            |                  |            |                                                |             |                   |             |
| Argentina.....                                    | 186,290                                        | 20.8       | 459,270          | 22.4       | 851,875                                        | 34.0        | 957,180           | 34.2        |
| Austria.....                                      | 3,380                                          | 1.9        | 829              | 0.4        | 1,223                                          | 18.5        | 25,753            | 82.3        |
| Belgium.....                                      | 36,141                                         | 1.0        | 95,270           | 3.0        | 299,490                                        | 2.1         | 60,031            | 0.5         |
| Brazil.....                                       | 324,640                                        | 54.9       | 256,251          | 41.0       | 787,168                                        | 56.4        | 1,193,369         | 67.8        |
| Central American States <sup>2</sup> .....        | 15,633                                         | 26.2       | 34,605           | 51.6       | 233,321                                        | 83.8        | 338,963           | 95.3        |
| Chile.....                                        | 16,279                                         | 75.9       | 4,912            | 59.0       | 18,971                                         | 13.7        | 103,534           | 37.4        |
| China.....                                        | 333,444                                        | 20.8       | 448,663          | 19.2       | 274,359                                        | 3.6         | 398,319           | 7.4         |
| Colombia.....                                     | 326,785                                        | 9.7        | 286,615          | 8.0        | 243,557                                        | 62.6        | 245,776           | 58.4        |
| Cuba.....                                         | 192,886                                        | 27.3       | 213,228          | 20.1       | 321,006                                        | 38.7        | 587,158           | 59.1        |
| Czechoslovakia.....                               | 5,767                                          | 0.3        | 4,533            | 0.3        | 10,777                                         | 9.6         | 12,966            | 18.0        |
| Denmark.....                                      | 9,248                                          | 7.3        | 2,934            | 1.0        | 249,312                                        | 9.3         | 115,103           | 5.3         |
| France.....                                       | 34,071                                         | 0.4        | 11,711           | 0.2        | 569,846                                        | 4.5         | 605,689           | 5.1         |
| French Africa.....                                | —                                              | —          | 229              | 0.3        | 25,500                                         | 28.0        | 22,638            | 37.0        |
| French West Indies.....                           | —                                              | —          | —                | —          | 51,415                                         | 39.7        | 48,485            | 59.1        |
| Germany.....                                      | 227,882                                        | 2.5        | 429,808          | 4.3        | 378,222                                        | 4.7         | 743,582           | 7.0         |
| Greece.....                                       | 20,144                                         | 44.7       | 15,698           | 31.8       | 4,459                                          | 1.3         | 3,568             | 2.6         |
| Italy.....                                        | 194,636                                        | 6.9        | 249,098          | 9.7        | 334,915                                        | 8.1         | 606,877           | 17.1        |
| Japan.....                                        | 104,162                                        | 2.7        | 90,670           | 2.7        | 634,434                                        | 6.1         | 927,470           | 6.7         |
| Mexico.....                                       | 277,296                                        | 31.5       | 169,797          | 41.9       | 1,277,304                                      | 97.5        | 1,614,560         | 96.1        |
| Netherlands.....                                  | 12,193                                         | 0.3        | 62,273           | 1.9        | 1,131,713                                      | 6.9         | 4,326,832         | 22.0        |
| Dutch East Indies.....                            | 98,632                                         | 43.8       | 47,653           | 8.5        | 47,505                                         | 16.2        | 26,356            | 6.4         |
| Norway.....                                       | 3,229                                          | 0.7        | 13,785           | 2.6        | 91,177                                         | 2.5         | 190,928           | 4.9         |
| Peru.....                                         | —                                              | —          | —                | —          | 167,092                                        | 23.2        | 230,855           | 24.9        |
| Philippine Islands.....                           | 29,397                                         | 18.9       | 77,008           | 21.1       | 53,357                                         | 15.4        | 182,511           | 29.6        |
| Portugal.....                                     | 144                                            | 0.1        | 1,104            | 0.9        | 18,837                                         | 13.4        | 28,580            | 33.0        |
| Portuguese Africa.....                            | —                                              | —          | —                | —          | 488,325                                        | 58.0        | 439,415           | 46.1        |
| Russia.....                                       | 95                                             | 0.0        | 4,079            | 3.9        | 965,155                                        | 54.3        | 16,722            | 100.0       |
| Santo Domingo.....                                | —                                              | —          | —                | —          | 160,274                                        | 88.5        | 153,895           | 86.5        |
| Spain.....                                        | 19,337                                         | 1.7        | 20,655           | 1.8        | 1,628,781                                      | 65.6        | 1,607,389         | 88.2        |
| Sweden.....                                       | 6,714                                          | 1.0        | 31,680           | 2.8        | 111,590                                        | 4.2         | 183,441           | 12.7        |
| Switzerland.....                                  | 12,681                                         | 0.5        | 8,744            | 0.3        | 38,477                                         | 18.1        | 30,436            | 11.0        |
| Venezuela.....                                    | 30,970                                         | 3.6        | 18,744           | 4.7        | 331,975                                        | 94.4        | 354,414           | 88.4        |
| <b>Totals, Foreign Countries<sup>1</sup></b>      | <b>2,709,502</b>                               | <b>5.1</b> | <b>3,346,348</b> | <b>6.1</b> | <b>13,382,820</b>                              | <b>12.3</b> | <b>17,456,208</b> | <b>16.3</b> |
| <b>Grand Totals<sup>1</sup></b>                   | <b>3,065,157</b>                               | <b>1.8</b> | <b>3,626,717</b> | <b>1.9</b> | <b>47,088,110</b>                              | <b>14.3</b> | <b>55,470,998</b> | <b>14.4</b> |

<sup>1</sup> Totals include other countries not specified.

<sup>2</sup> Costa Rica, Guatemala, Honduras, Nicaragua and

Salvador.



### Subsection 10.—Comparison of the Volume of Imports and Exports.\*

The statistics of the external trade of Canada have not, until lately, been analysed in detail to reveal the physical volume of external trade as well as the dollar value of that trade, and have therefore been somewhat misleading when used to show the physical growth of production and external trade. When, for example, Table 1 of this chapter is examined, it seems to show stagnation in our external trade between the early 70's and the middle 90's of last century and a very rapid growth thereafter. Yet we know that the apparent stagnation was partly due to the fall in general prices between the '70's and the middle '90's, while the rapid growth of the later figures is exaggerated by the rise of prices after 1897, especially in the war period, 1914 to 1921. Since 1929 another precipitate decline in prices has exaggerated the actual decrease of trade. Thus the figures as published give us no true measure of the *volume* of our external trade, yet, of the commodities that satisfy human needs, it is the volume rather than the value with which the masses of the population are more intimately concerned. Volume is, from many points of view, a more important consideration than value, and it is desirable to secure a record of the fluctuations in the volume of the country's trade as distinguished from the value thereof. This is what is attempted in Table 22.

The method adopted for ascertaining the fluctuations in volume has been to take a base year—1926—and to revalue the quantities of each commodity imported or exported in any given year at the average import or export value of that commodity in the standard or base year. Where quantities are not available, the values of items are assumed to have moved in the same direction and in the same proportions as closely related commodities. For this reason the results must not be regarded as of great precision but, since the value of goods not returned by quantity and of those not comparable over a limited series of years is small in comparison with the total trade, the amount of error introduced on their account is inconsiderable. By this method it is comparatively easy to compare the volume of the trade in a particular year with that in a recent year and the margin of error is fairly small. When, however, a comparison of the volume of trade in a particular year with that of another year ten or more years before is undertaken, the margin of error is very much greater. Certain new commodities have come into existence in the course of the decade, while the qualities of others have been materially changed; further, various new items have been added to the customs classifications, and it is not always possible to say just what customs items of 1934 correspond with those of 1914. For these reasons comparisons with the pre-war fiscal year ended 1914 have been discontinued since 1929. This comparison for 1929 and certain previous years appeared on pp. 581–583 of the 1930 Year Book.

In Table 22 the values and volumes of imports and exports respectively for the years 1929 to 1934 are compared with 1926, for the main groups, as follows: the imports and exports are first shown at the values at which the trade was recorded; the same imports and exports are then shown at the value they would have had if the average price or unit value had been the same in each year as it was in 1926. In other words, the figures on the basis of 1926 average values enable a comparison to be made of the imports or exports for the given years on the basis of variations in quantity only, variations due to different prices having been eliminated. Index numbers of declared values, that is, the total declared values of the imports or exports in each year expressed as percentages of 1926, are then given. These are

\*Further information as to the methods adopted in making the following analyses will be found on p. 804 of the Annual Report on the Trade of Canada for the fiscal year ended Mar. 31, 1934, published by the Dominion Bureau of Statistics.



followed by the index numbers of average values, which show the prices at which goods were imported or exported in each year expressed as percentages of the prices in 1926. Finally, the index numbers of physical volume show the relative quantity of merchandise imported or exported in each year expressed as a percentage of the quantity of the same merchandise in 1926.

For an analysis in greater detail, dealing similarly with sub-groups and principal commodities imported and exported, the reader is referred to pp. 803-817 of the Annual Report on the Trade of Canada for 1934, published by the Dominion Bureau of Statistics.

The physical volume of imports has been fairly well maintained throughout the depression in those groups comprising goods which enter more or less directly into consumption, such as vegetable products and textiles, while the volumes of imported chemicals and non-metallic minerals (chiefly petroleum products and coal) were higher in 1934 than 1926. On the other hand, the volume of imports of lasting or capital goods, largely comprised within the iron, non-ferrous metal and wood products groups, was at a very low level in the two latest years shown.

In the second half of Table 22 the volume of exports in 1934 of farm products, comprising both the vegetable and animal groups, are shown to be only about two-thirds those of the base year 1926. Exports of wood and paper products (another important group in the Canadian economy) recovered in 1934 to nearly 90 p.c. of the volume of the base year. However, of the four groups of major importance to the prosperity of Canada, the best showing was made by non-ferrous metals with a volume of exports in 1934 amounting to 165 p.c. of those of 1926. Furthermore, if the product of the chief branch of Canadian mining enterprise—namely, gold mining—had been included in the non-ferrous metal exports, instead of being treated as bullion and excluded from the commodity groups altogether, the exports of non-ferrous metals would have shown a still greater volume.

**22.—Comparison of the Values and Volumes of the External Trade of Canada, by Main Groups, fiscal years ended Mar. 31, 1926 and 1929-34.**

**IMPORTS FOR CONSUMPTION.**

| Value Comparison and Group.                 | 1926.          | 1929.            | 1930.            | 1931.            | 1932.          | 1933.          | 1934.          |
|---------------------------------------------|----------------|------------------|------------------|------------------|----------------|----------------|----------------|
|                                             | 000<br>\$      | 000<br>\$        | 000<br>\$        | 000<br>\$        | 000<br>\$      | 000<br>\$      | 000<br>\$      |
| <b>Values as Declared.</b>                  |                |                  |                  |                  |                |                |                |
| Agricultural and Vegetable Products.        | 203,417        | 233,127          | 227,045          | 177,598          | 128,599        | 88,289         | 90,829         |
| Animals and Their Products.                 | 49,186         | 71,662           | 69,854           | 45,996           | 24,563         | 15,439         | 19,842         |
| Fibres and Textiles.                        | 184,762        | 206,439          | 185,241          | 130,717          | 83,879         | 61,215         | 79,372         |
| Wood and Paper.                             | 40,403         | 59,219           | 60,955           | 46,073           | 32,080         | 20,506         | 19,358         |
| Iron and Its Products.                      | 181,197        | 340,831          | 311,188          | 192,614          | 98,298         | 58,918         | 69,127         |
| Non-Ferrous Metals.                         | 47,693         | 81,192           | 93,580           | 61,899           | 34,802         | 18,095         | 20,171         |
| Non-Metallic Minerals.                      | 139,034        | 166,964          | 186,496          | 153,579          | 102,147        | 87,658         | 83,397         |
| Chemicals and Allied Products.              | 28,404         | 37,723           | 39,908           | 35,651           | 30,731         | 25,455         | 25,584         |
| Miscellaneous                               | 53,233         | 68,522           | 74,007           | 62,486           | 43,455         | 30,809         | 26,119         |
| <b>Totals.</b>                              | <b>927,329</b> | <b>1,265,679</b> | <b>1,248,274</b> | <b>906,613</b>   | <b>578,504</b> | <b>406,384</b> | <b>433,799</b> |
| <b>On the Basis of 1926 Average Values.</b> |                |                  |                  |                  |                |                |                |
| Agricultural and Vegetable Products.        | 203,417        | 289,027          | 294,039          | 266,869          | 242,388        | 186,257        | 195,001        |
| Animals and Their Products.                 | 49,186         | 66,545           | 74,175           | 58,386           | 34,161         | 30,109         | 34,916         |
| Fibres and Textiles.                        | 184,762        | 237,405          | 230,245          | 212,295          | 171,561        | 207,573        | 163,662        |
| Wood and Paper.                             | 40,403         | 60,377           | 62,184           | 61,883           | 35,341         | 24,233         | 24,971         |
| Iron and Its Products.                      | 181,197        | 355,649          | 308,957          | 193,926          | 100,276        | 61,080         | 84,649         |
| Non-Ferrous Metals.                         | 47,693         | 83,774           | 91,650           | 72,024           | 45,765         | 24,262         | 26,542         |
| Non-Metallic Minerals.                      | 139,034        | 195,930          | 226,542          | 193,863          | 165,211        | 133,136        | 143,840        |
| Chemicals and Allied Products.              | 28,404         | 38,656           | 41,030           | 40,095           | 34,368         | 30,323         | 33,026         |
| Miscellaneous                               | 53,233         | 75,751           | 84,359           | 80,302           | 67,013         | 52,872         | 45,294         |
| <b>Totals.</b>                              | <b>927,329</b> | <b>1,493,114</b> | <b>1,413,181</b> | <b>1,169,583</b> | <b>896,084</b> | <b>749,845</b> | <b>751,701</b> |

## 22.—Comparison of the Values and Volumes of the External Trade of Canada, by Main Groups, fiscal years ended Mar. 31, 1926 and 1929-34—continued.

### IMPORTS FOR CONSUMPTION—concluded.

| Value Comparison and Group.              | 1926.        | 1929.        | 1930.        | 1931.        | 1932.       | 1933.       | 1934.       |
|------------------------------------------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|
| <b>Index Numbers of Declared Values.</b> |              |              |              |              |             |             |             |
|                                          |              |              | (1926=100.)  |              |             |             |             |
| Agricultural and Vegetable Products.     | 100-0        | 114-6        | 111-6        | 87-3         | 63-2        | 43-4        | 44-1        |
| Animals and Their Products.....          | 100-0        | 145-7        | 142-0        | 93-5         | 50-0        | 31-4        | 40-3        |
| Fibres and Textiles.....                 | 100-0        | 111-7        | 100-3        | 70-7         | 45-4        | 33-1        | 43-0        |
| Wood and Paper.....                      | 100-0        | 146-6        | 150-9        | 114-0        | 79-3        | 50-8        | 47-9        |
| Iron and Its Products.....               | 100-0        | 188-1        | 171-7        | 106-3        | 54-2        | 32-5        | 38-2        |
| Non-Ferrous Metals.....                  | 100-0        | 170-2        | 196-2        | 129-8        | 73-0        | 37-9        | 42-2        |
| Non-Metallic Minerals.....               | 100-0        | 120-1        | 134-1        | 110-5        | 73-5        | 63-0        | 60-0        |
| Chemicals and Allied Products.....       | 100-0        | 132-8        | 140-5        | 125-5        | 108-2       | 89-6        | 90-1        |
| Miscellaneous.....                       | 100-0        | 128-7        | 139-0        | 117-4        | 81-6        | 57-9        | 49-1        |
| <b>Total Index Numbers.....</b>          | <b>100-0</b> | <b>136-5</b> | <b>134-6</b> | <b>97-7</b>  | <b>62-4</b> | <b>43-8</b> | <b>46-8</b> |
| <b>Index Numbers of Average Values.</b>  |              |              |              |              |             |             |             |
| Agricultural and Vegetable Products.     | 100-0        | 80-7         | 77-2         | 66-5         | 53-1        | 47-4        | 46-6        |
| Animals and Their Products.....          | 100-0        | 107-7        | 94-2         | 78-8         | 71-9        | 51-3        | 56-8        |
| Fibres and Textiles.....                 | 100-0        | 87-0         | 80-5         | 61-6         | 48-9        | 29-5        | 48-5        |
| Wood and Paper.....                      | 100-0        | 98-1         | 98-0         | 88-8         | 90-6        | 84-6        | 77-5        |
| Iron and Its Products.....               | 100-0        | 95-8         | 100-7        | 99-3         | 98-0        | 96-5        | 81-7        |
| Non-Ferrous Metals.....                  | 100-0        | 96-9         | 102-1        | 85-9         | 76-0        | 74-6        | 76-6        |
| Non-Metallic Minerals.....               | 100-0        | 85-2         | 82-3         | 79-2         | 61-8        | 65-8        | 58-0        |
| Chemicals and Allied Products.....       | 100-0        | 97-6         | 97-3         | 89-0         | 89-4        | 83-9        | 77-5        |
| Miscellaneous.....                       | 100-0        | 90-5         | 87-7         | 77-8         | 64-8        | 58-3        | 57-7        |
| <b>Total Index Numbers.....</b>          | <b>100-0</b> | <b>90-2</b>  | <b>88-3</b>  | <b>77-5</b>  | <b>64-6</b> | <b>54-2</b> | <b>57-7</b> |
| <b>Index Numbers of Physical Volume.</b> |              |              |              |              |             |             |             |
| Agricultural and Vegetable Products.     | 100-0        | 142-1        | 144-5        | 131-2        | 119-2       | 91-6        | 95-9        |
| Animals and Their Products.....          | 100-0        | 135-3        | 150-8        | 118-7        | 69-5        | 61-2        | 71-0        |
| Fibres and Textiles.....                 | 100-0        | 128-5        | 124-6        | 114-9        | 92-9        | 112-3       | 88-6        |
| Wood and Paper.....                      | 100-0        | 149-4        | 153-9        | 128-4        | 87-5        | 60-0        | 61-8        |
| Iron and Its Products.....               | 100-0        | 196-3        | 170-5        | 107-0        | 55-3        | 33-8        | 46-7        |
| Non-Ferrous Metals.....                  | 100-0        | 175-7        | 192-2        | 151-0        | 96-0        | 50-9        | 55-2        |
| Non-Metallic Minerals.....               | 100-0        | 140-9        | 162-9        | 139-4        | 118-8       | 95-8        | 103-5       |
| Chemicals and Allied Products.....       | 100-0        | 136-1        | 144-5        | 140-9        | 121-0       | 106-8       | 116-3       |
| Miscellaneous.....                       | 100-0        | 142-3        | 158-5        | 150-9        | 125-9       | 99-3        | 85-1        |
| <b>Total Index Numbers.....</b>          | <b>100-0</b> | <b>151-3</b> | <b>152-4</b> | <b>126-1</b> | <b>96-6</b> | <b>80-9</b> | <b>81-1</b> |

### EXPORTS OF CANADIAN PRODUCE.

| Values as Declared.                         | 000<br>\$        | 000<br>\$        | 000<br>\$        | 000<br>\$        | 000<br>\$        | 000<br>\$      | 000<br>\$        |
|---------------------------------------------|------------------|------------------|------------------|------------------|------------------|----------------|------------------|
| Agricultural and Vegetable Products.        | 606,059          | 646,514          | 384,636          | 292,280          | 204,398          | 203,371        | 205,805          |
| Animals and Their Products.                 | 190,976          | 158,757          | 133,009          | 83,715           | 68,799           | 54,333         | 75,151           |
| Fibres and Textiles.                        | 8,940            | 9,678            | 9,066            | 6,504            | 5,512            | 4,730          | 7,829            |
| Wood and Paper.                             | 278,675          | 288,622          | 289,567          | 230,604          | 175,740          | 120,887        | 143,142          |
| Iron and Its Products.                      | 74,735           | 82,257           | 78,590           | 38,938           | 15,463           | 17,277         | 28,641           |
| Non-Ferrous Metals.                         | 97,476           | 112,778          | 154,319          | 95,652           | 69,073           | 42,642         | 81,764           |
| Non-Metallic Minerals.                      | 24,713           | 27,402           | 28,545           | 21,108           | 13,456           | 9,216          | 14,809           |
| Chemicals and Allied Products.              | 17,354           | 19,438           | 22,468           | 12,826           | 10,536           | 11,100         | 13,844           |
| Miscellaneous.                              | 16,428           | 18,264           | 20,058           | 18,116           | 13,367           | 10,244         | 10,358           |
| <b>Totals.</b>                              | <b>1,315,356</b> | <b>1,363,710</b> | <b>1,120,258</b> | <b>799,743</b>   | <b>576,344</b>   | <b>473,800</b> | <b>579,343</b>   |
| <b>On the Basis of 1926 Average Values.</b> |                  |                  |                  |                  |                  |                |                  |
| Agricultural and Vegetable Products.        | 606,059          | 781,889          | 452,780          | 487,385          | 440,104          | 482,703        | 401,373          |
| Animals and Their Products.                 | 190,976          | 143,049          | 127,201          | 86,906           | 109,631          | 101,859        | 124,218          |
| Fibres and Textiles.                        | 8,940            | 10,505           | 11,266           | 10,608           | 10,544           | 9,770          | 13,527           |
| Wood and Paper.                             | 278,675          | 308,999          | 322,896          | 270,812          | 231,675          | 185,133        | 248,376          |
| Iron and Its Products.                      | 74,735           | 99,877           | 91,513           | 59,256           | 20,105           | 21,670         | 43,639           |
| Non-Ferrous Metals.                         | 97,476           | 133,037          | 163,535          | 118,576          | 140,492          | 123,651        | 160,507          |
| Non-Metallic Minerals.                      | 24,713           | 26,638           | 33,515           | 22,521           | 14,874           | 11,883         | 18,831           |
| Chemicals and Allied Products.              | 17,354           | 23,824           | 29,838           | 17,571           | 16,616           | 17,554         | 25,357           |
| Miscellaneous.                              | 16,428           | 20,760           | 22,952           | 24,197           | 23,220           | 21,059         | 18,833           |
| <b>Totals.</b>                              | <b>1,315,356</b> | <b>1,548,678</b> | <b>1,255,496</b> | <b>1,097,832</b> | <b>1,007,261</b> | <b>975,283</b> | <b>1,054,661</b> |

**22.—Comparison of the Values and Volumes of the External Trade of Canada, by Main Groups, fiscal years ended Mar. 31, 1926 and 1929-34—concluded.**

**EXPORTS OF CANADIAN PRODUCE—concluded.**

| Value Comparison and Group.              | 1926.        | 1929.        | 1930.       | 1931.       | 1932.       | 1933.       | 1934.       |
|------------------------------------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|
| <b>Index Numbers of Declared Values.</b> | (1926=100.)  |              |             |             |             |             |             |
| Agricultural and Vegetable Products.     | 100.0        | 106.7        | 63.5        | 48.2        | 33.7        | 33.6        | 34.0        |
| Animals and Their Products.....          | 100.0        | 83.1         | 69.7        | 43.8        | 36.0        | 28.5        | 39.4        |
| Fibres and Textiles.....                 | 100.0        | 108.3        | 101.4       | 72.8        | 61.7        | 52.9        | 87.6        |
| Wood and Paper.....                      | 100.0        | 103.6        | 103.9       | 82.8        | 63.1        | 43.4        | 51.4        |
| Iron and Its Products.....               | 100.0        | 110.1        | 105.2       | 52.1        | 20.7        | 23.1        | 35.6        |
| Non-Ferrous Metals.....                  | 100.0        | 115.7        | 158.3       | 98.1        | 70.9        | 43.7        | 83.9        |
| Non-Metallic Minerals.....               | 100.0        | 110.9        | 115.5       | 85.4        | 54.4        | 37.3        | 59.9        |
| Chemicals and Allied Products.....       | 100.0        | 112.0        | 129.5       | 73.9        | 60.7        | 64.0        | 79.8        |
| Miscellaneous.....                       | 100.0        | 111.2        | 122.1       | 110.3       | 81.4        | 62.4        | 63.1        |
| <b>Total Index Numbers.....</b>          | <b>100.0</b> | <b>103.7</b> | <b>85.2</b> | <b>60.8</b> | <b>43.8</b> | <b>36.0</b> | <b>44.0</b> |
| <b>Index Numbers of Average Values.</b>  |              |              |             |             |             |             |             |
| Agricultural and Vegetable Products.     | 100.0        | 82.7         | 85.0        | 60.0        | 46.4        | 42.1        | 51.3        |
| Animals and Their Products.....          | 100.0        | 111.0        | 104.6       | 96.3        | 62.8        | 53.3        | 60.5        |
| Fibres and Textiles.....                 | 100.0        | 92.1         | 80.5        | 61.3        | 52.3        | 48.4        | 57.9        |
| Wood and Paper.....                      | 100.0        | 93.4         | 89.7        | 85.2        | 75.9        | 65.3        | 57.6        |
| Iron and Its Products.....               | 100.0        | 82.4         | 85.9        | 65.7        | 76.9        | 79.7        | 61.0        |
| Non-Ferrous Metals.....                  | 100.0        | 84.8         | 94.4        | 80.7        | 49.2        | 34.5        | 50.9        |
| Non-Metallic Minerals.....               | 100.0        | 102.9        | 85.2        | 93.7        | 90.5        | 77.6        | 78.6        |
| Chemicals and Allied Products.....       | 100.0        | 81.6         | 75.3        | 73.0        | 63.4        | 63.2        | 54.6        |
| Miscellaneous.....                       | 100.0        | 88.0         | 87.4        | 74.9        | 57.6        | 48.6        | 55.0        |
| <b>Total Index Numbers.....</b>          | <b>100.0</b> | <b>88.1</b>  | <b>89.2</b> | <b>72.8</b> | <b>57.2</b> | <b>48.6</b> | <b>54.9</b> |
| <b>Index Numbers of Physical Volume.</b> |              |              |             |             |             |             |             |
| Agricultural and Vegetable Products.     | 100.0        | 129.0        | 74.7        | 80.4        | 72.6        | 79.6        | 66.2        |
| Animals and Their Products.....          | 100.0        | 74.9         | 66.6        | 45.5        | 57.4        | 53.3        | 65.0        |
| Fibres and Textiles.....                 | 100.0        | 117.5        | 126.0       | 118.7       | 117.9       | 109.3       | 151.3       |
| Wood and Paper.....                      | 100.0        | 110.9        | 115.9       | 97.1        | 83.1        | 66.4        | 89.1        |
| Iron and Its Products.....               | 100.0        | 133.6        | 122.4       | 79.3        | 26.9        | 29.0        | 58.4        |
| Non-Ferrous Metals.....                  | 100.0        | 136.5        | 167.8       | 121.6       | 144.1       | 126.9       | 164.7       |
| Non-Metallic Minerals.....               | 100.0        | 107.8        | 135.6       | 91.1        | 60.2        | 43.1        | 76.2        |
| Chemicals and Allied Products.....       | 100.0        | 137.3        | 171.9       | 73.0        | 95.7        | 101.2       | 146.1       |
| Miscellaneous.....                       | 100.0        | 126.4        | 139.7       | 147.3       | 141.3       | 128.2       | 114.6       |
| <b>Total Index Numbers.....</b>          | <b>100.0</b> | <b>117.7</b> | <b>95.4</b> | <b>83.5</b> | <b>76.6</b> | <b>74.2</b> | <b>80.2</b> |

**Section 4.—The Tourist Trade of Canada.\***

**Tourist Expenditures in Canada.**—In recent years the tourist trade has become an important source of revenue in certain sections of the Dominion, materially affecting the balance of trade. It represents the economic disposition of national assets in which Canada is particularly rich, namely: its picturesque scenery; its invigorating climate; its opportunities for hunting, fishing and boating, as well as for winter sports—for the exploitation of which a considerable capital expenditure has been made on hotel accommodation, improved highways and other attractions. Those entering from the United States in automobiles are by far the most important class of tourists. The business accruing to the Dominion in this manner represents some return for expenditures on highways which have been very large in the period since the War (see pp. 733-736). In order to attract this traffic, highways have been built through regions of picturesque scenery, such as the Rocky Mountains, northern Ontario, and the Laurentians and Gaspé in Quebec. A further asset for Canada arises from the fact that these scenic regions with their invigorating climate

\*Abridged from "The Tourist Trade in Canada, 1920-26", and reports for each year from 1927 to 1933 inclusive, published by the Dominion Bureau of Statistics and obtainable on application. These reports contain a full explanation of the methods used in making the estimates.



are at their best in the summer holiday season when motorists are most ready to travel. The expenditure of travellers coming to Canada from other countries on business has the same effect, so far as its influence on the balance of trade is concerned, as the export of additional commodities would have. Indeed, in so far as commodities are sold to tourists travelling in the Dominion, our exportable surplus of such commodities is reduced.

It is impossible to obtain a direct record of expenditures of this kind. Moreover, even a rough estimate of the total is extremely difficult to make, visitors to Canada being of all classes, engaging in widely different activities or forms of recreation, remaining for varying periods, with expenditures undoubtedly ranging from very small to very large amounts.

The tourists who enter Canada may be divided into three classes: (a) those coming in *via* ocean ports; (b) those entering from the United States in automobiles; (c) those entering from the United States by rail or steamer. In 1933 these classes are estimated to have expended in Canada \$7,763,000, \$72,196,000 (equivalent to \$77,250,000 in Canadian funds at average rates of exchange for the period) and about \$29,460,000 (\$32,111,000 in Canadian funds) respectively, or a grand total of approximately \$109,419,000 (about \$117,124,000 in Canadian funds).

The Department of National Revenue records the number of tourists entering Canada in automobiles from the United States through each of the ports of entry along the border. An estimate of the expenditure of tourists of this class in 1933, according to the provinces by which they entered, is as follows: Maritime Provinces, \$43,986,000; Quebec, \$17,773,000; Ontario, \$48,920,000; Manitoba, \$828,000; Saskatchewan, \$410,000; Alberta, \$349,000, and British Columbia \$4,984,000.

**Expenditures of Canadian Tourists Abroad.**—Canadian tourists visiting other countries travel in the main to the British Isles and other European countries on visits home, or as sightseers. Again, many of them, especially elderly or delicate persons, go to Florida, Bermuda or the West Indies. These tourists may be classified in the same three classes as those entering Canada. The total expenditures of such Canadian tourists in other countries were \$50,860,000 in 1933—a decline of \$6,543,000 from the previous year.

**Summary.**—For the years 1924 to 1933 the total estimated expenditures of tourists from other countries in Canada, as compared with those of Canadian tourists in other countries, are given in Table 23.

23.—Tourist Expenditures in Canada and of Canadians Abroad, 1924-33.

| Year.     | Estimated<br>Expenditure<br>of<br>Tourists<br>from Other<br>Countries<br>in Canada. | Estimated<br>Expenditure<br>of<br>Canadian<br>Tourists<br>in Other<br>Countries. | Estimated<br>Excess<br>of<br>Expenditure<br>of Tourists<br>from Other<br>Countries. |
|-----------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|           | \$                                                                                  | \$                                                                               | \$                                                                                  |
| 1924..... | 173,002,000                                                                         | 84,973,000                                                                       | 88,029,000                                                                          |
| 1925..... | 193,174,000                                                                         | 86,160,000                                                                       | 107,014,000                                                                         |
| 1926..... | 201,167,000                                                                         | 98,747,000                                                                       | 102,420,000                                                                         |
| 1927..... | 238,477,000                                                                         | 108,750,000                                                                      | 129,727,000                                                                         |
| 1928..... | 275,230,000                                                                         | 107,522,000                                                                      | 167,708,000                                                                         |
| 1929..... | 309,379,000                                                                         | 121,645,000                                                                      | 187,734,000                                                                         |
| 1930..... | 279,238,000                                                                         | 100,389,000                                                                      | 178,849,000                                                                         |
| 1931..... | 250,776,000                                                                         | 76,452,000                                                                       | 174,324,000                                                                         |
| 1932..... | 212,448,000 <sup>1</sup>                                                            | 57,403,000                                                                       | 155,045,000                                                                         |
| 1933..... | 117,124,000 <sup>1</sup>                                                            | 50,860,000                                                                       | 66,264,000                                                                          |

<sup>1</sup> Converted into Canadian funds at average rates of exchange for the period.



Until the depression made itself felt in 1930, there was a steady increase in the amounts spent both by tourists from other countries in Canada and by Canadians in other countries. During the years 1930-32 the tourist trade, in spite of successive declines, exhibited a surprising vitality as compared with the generally depressed state of trade and industry. In each of these years the expenditures of tourists in Canada (and in the latter two the balance after deducting the corresponding expenditures of Canadians in foreign countries) constituted an "invisible" export of greater value than any single commodity exported. A marked contraction in both volume of travel and tourist expenditures occurred in 1933, reflecting the cumulative effects of the low level of economic activity in recent years, the general lowering of incomes and the intensification of "depression" psychology. Data at present available indicate a fairly substantial increase in tourist revenues in 1934.

### Section 5.—Balance of International Payments 1920-32.\*

"Balance of Trade" figures are frequently misinterpreted owing to the persistence of the doctrine long ago exploded that a nation's trade is necessarily in a healthy state when exports exceed imports, necessitating an import of gold to make up the difference. Trade was then said to show a "favourable" balance. This theory only took account of the "visible" or commodity items of trade, whereas the true balance of a nation's trade can only be known when not only the commodity items are considered, but also the "invisible" items such as interest, freight, immigrant remittances, financial services, tourist traffic, etc. In short, all debit and credit transactions must be set down in order to find out the true balance. If all the visible and invisible items are thus tabulated the debit or credit difference will be a final invisible item—capital import or export—and this will bring the nation's trade account into a state of balance. Thus, the commodity trade balance of a country cannot be understood by itself but only as it is interpreted in the light of the invisible items of a country's international transactions. In the light of such data, it will be found that a so-called favourable or unfavourable balance will mean an entirely different thing at different times in a country's history. The balance of international payments, which takes account not only of commodity trade but of all transactions, reveals the meaning of the trade balance. It shows, for example, that in 1920, 1921 and 1922 our international accounts were balanced by large imports of capital, although our commodity trade balance was favourable in 1920 and 1922. During these years Britain repaid us war funds as follows: 1920, \$104,000,000; 1921, \$128,000,000; 1922, \$84,000,000. From 1923-28, however, the international accounts show a credit balance after allowing for interest payments and maturities, thus denoting capital exports. In these years Canada became temporarily a capital-exporting country. In these latter years, therefore, the explanation of our favourable commodity trade balance was quite different from that for the period, 1894 to 1903, when it was explained by payments of interest and maturities.

From the foregoing it will be seen that an estimated balance of international payments is indispensable to the understanding of trade accounts. It has, however, a great many other important uses, among which the following may be mentioned: (1) to give a comprehensive picture of our international debits and credits and how they are balanced; (2) to show the extent of our international borrowings and lend-

\*Abridged from the annual report "Canada's Balance of International Payments", by Herbert Marshall, B.A., F.S.S., Chief of the Internal Trade Branch of the Dominion Bureau of Statistics. This report includes explanatory data on the methods followed in computing these statistics.

ings; (3) to show the magnitude of individual invisible items, such as interest, freights, tourist traffic, etc., in our international transactions; (4) to explain exchange disturbances and the effect of international financial difficulties; and (5) to furnish data for guidance in the formulation of international fiscal, financial and commercial policy.

As already stated, in the years from 1923 to 1928 Canada became temporarily a capital-exporting country. This was the result of abundant funds accumulating in the Dominion owing to three causes. In the first place, there had come into the country during the War about \$1,250,000,000 through the purchase of our commodities at high prices; this was seeking an investment outlet. In the second place, the large investment of United States capital in the Dominion from 1914 to 1920 was now increasing the nation's output. In the third place, successive large harvests at relatively high world prices were a foundation of prosperity. These factors combined, caused an unprecedented accumulation of savings, which was used by financial institutions and individuals not only to finance domestic capital needs, but also to avail themselves of opportunities for profitable investment abroad. The prolonged and extravagant "bull" market in the New York and other United States' stock exchanges culminating in the early summer of 1929, and the high interest rates prevailing in those markets, attracted enormous sums to the United States from other countries, including Canada. Thus from 1923 to 1928 we had on balance an export of capital to our credit, though at the same time other countries, particularly the United States, continued to invest large sums in the Dominion. In contrast to this there were unfavourable balances in 1929 and 1930, considering both visible and invisible items, of \$65,000,000 and \$159,000,000 respectively, while in 1931 the balance was favourable by about \$28,000,000. In the light of all available information, it appears that the balances in 1929 and 1930 represented a net movement of capital into Canada for investment, while those of 1931 and 1932 represented a net movement outwards. In the last-named year, however, the capital export appears to have been in the main not for investment but for the purpose of retiring maturing issues and for repurchases. A more detailed discussion of the balance of payments in these years will be found at pp. 600-601 of the 1933 Year Book.

In 1933 credit balances of \$146 million for commodities, \$92 million for gold, \$60 million for tourist trade, amounting in all to \$298 million, were more than sufficient to meet net debits of \$225 million for interest, \$15 million for freight, and \$9 million for exchange, totalling \$249 million. Minor invisible items showed a net debit of \$8 million. The total net credit, exclusive of capital, was approximately \$40 million which, plus a net credit of approximately \$62 million, representing capital inflow, makes a total of \$102 million for which no debit items appear. An error and omission estimate is therefore added to bring the two sides of the international accounts into balance.

In 1934 it will be noted that the debit for interest and dividend payments was \$230 million. Maturity payments were \$75 million. These two items together amount to \$305 million. Commodity, tourist and gold credit balances totalled \$323 million and these, less \$18 million, were required to meet the interest, dividends and maturities. The balance of \$18 million just about offset a freight deficit of \$21 million. Remaining debits amounting to \$10 million plus the \$48½ million debit for untraced items (errors and omissions) were balanced by sundry credits of \$6½ million plus capital credits on the sale and purchase of securities and direct investments.

Table 24 shows the preliminary estimates of the balance of international payments for 1933 and 1934. Figures for 1920-26 were given at pp. 601-602 of the 1929 Year Book, although these have since been somewhat revised in later estimates. Figures for 1927-28 will be found at p. 501 of the 1932 Year Book and those for 1929-32 at p. 601 of the 1933 Year Book.

#### 24.—Estimated Balance of International Payments, 1933 and 1934.

NOTE.—Figures for both years are preliminary.

| Item.                                                                                                                    | 1933.                                    |                                          |                                          | 1934.                                    |                                          |                                          |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
|                                                                                                                          | Exports,<br>Visible<br>and<br>Invisible. | Imports,<br>Visible<br>and<br>Invisible. | Net<br>Debit (—)<br>or<br>Credit<br>(+). | Exports,<br>Visible<br>and<br>Invisible. | Imports,<br>Visible<br>and<br>Invisible. | Net<br>Debit (—)<br>or<br>Credit<br>(+). |
|                                                                                                                          | 000<br>\$                                | 000<br>\$                                | 000<br>\$                                | 000<br>\$                                | 000<br>\$                                | 000<br>\$                                |
| Commodity Trade (corrected by deduction of non-commercial items, overvaluations, etc.).....                              | 535,000                                  | 389,250                                  | +146,000                                 | 645,000                                  | 500,000                                  | +145,000                                 |
| Exports and imports of gold coin and bullion.....                                                                        | 66,000                                   | 850                                      | + 65,100                                 | 95,000                                   | 800                                      | + 94,200                                 |
| Correction for gold movements to convert to Canadian currency.....                                                       | 27,000                                   | 350                                      | + 26,600                                 | —                                        | —                                        | —                                        |
| Freight payments and receipts, n.o.p....                                                                                 | 40,000                                   | 55,000                                   | — 15,000                                 | 47,000                                   | 68,000                                   | — 21,000                                 |
| Tourist expenditures.....                                                                                                | 110,000                                  | 50,000                                   | + 60,000                                 | 138,000                                  | 54,000                                   | + 84,000                                 |
| Interest payments and receipts.....                                                                                      | 50,000                                   | 275,000                                  | —225,000                                 | 60,000                                   | 290,000                                  | —230,000                                 |
| Immigrant remittances.....                                                                                               | 5,000                                    | 6,000                                    | — 1,000                                  | 6,000                                    | 7,500                                    | — 1,500                                  |
| Government expenditures and receipts...                                                                                  | 6,500                                    | 9,500                                    | — 3,000                                  | 8,000                                    | 9,250                                    | — 1,250                                  |
| Charitable and missionary contributions                                                                                  | 1,000                                    | 1,000                                    | —                                        | 2,000                                    | 1,200                                    | + 800                                    |
| Insurance transactions.....                                                                                              | 15,000                                   | 11,000                                   | + 4,000                                  | 16,000                                   | 12,000                                   | + 4,000                                  |
| Advertising transactions.....                                                                                            | 1,500                                    | 3,000                                    | — 1,500                                  | 2,000                                    | 1,500                                    | + 500                                    |
| Motion picture earnings.....                                                                                             | —                                        | 4,000                                    | — 4,000                                  | —                                        | 2,750                                    | + 2,750                                  |
| Capital of immigrants and emigrants....                                                                                  | 4,000                                    | 3,250                                    | + 750                                    | 4,000                                    | 3,250                                    | + 750                                    |
| Earnings of Canadian residents employed in U.S.A.....                                                                    | 700                                      | —                                        | + 700                                    | 500                                      | —                                        | + 500                                    |
| Exchange, London and New York, on interest and maturity payments and receipts.....                                       | 3,000                                    | 12,000                                   | — 9,000                                  | —                                        | —                                        | —                                        |
| Miscellaneous items such as direct magazine subscriptions, artists' and entertainers' receipts, radio programs, etc..... | —                                        | 4,000                                    | — 4,000                                  | —                                        | 4,500                                    | — 4,500                                  |
| Capital movement (see statement below)                                                                                   | 61,500                                   | —                                        | + 61,500                                 | —                                        | 20,000                                   | — 20,000                                 |
| Balancing item (net errors and omissions).....                                                                           | —                                        | 102,000                                  | —102,000                                 | —                                        | 48,750                                   | — 48,750                                 |
|                                                                                                                          | 926,200                                  | 926,200                                  | —                                        | 1,023,500                                | 1,023,500                                | —                                        |
| CAPITAL MOVEMENT.                                                                                                        |                                          |                                          |                                          |                                          |                                          |                                          |
| Sale and purchase of securities.....                                                                                     | 350,000                                  | 250,000                                  | +100,000                                 | 350,000                                  | 300,000                                  | + 50,000                                 |
| Maturities.....                                                                                                          | —                                        | 40,000                                   | — 40,000                                 | —                                        | 75,000                                   | — 75,000                                 |
| Direct investments.....                                                                                                  | 1,500                                    | —                                        | + 1,500                                  | 5,000                                    | —                                        | + 5,000                                  |
| Net inflow or outflow of capital.....                                                                                    | —                                        | 61,500                                   | —                                        | 20,000                                   | —                                        | —                                        |
|                                                                                                                          | 351,500                                  | 351,500                                  | + 61,500                                 | 375,000                                  | 375,000                                  | — 20,000                                 |



## CHAPTER XVII.—INTERNAL TRADE.

This treatment of trade within the Dominion commences with a general statement on interprovincial trade. This is followed by sections dealing with the statistics of the grain trade and of the marketing of live stock and animal products. Statistics of cold storage facilities and of commodities in cold storage are next in order. In the latter part of the chapter will be found sections relating to various administrative services connected with trade, including: the payment of bounties; the granting of patents, copyrights and trade marks; and weights and measures, electricity and gas inspection. The concluding section of the chapter deals with the statistics of wholesale and retail merchandising collected at the Census of Distribution in 1930 and subsequently.

### Section 1.—Interprovincial Trade.\*

Canada may be divided into the following five economic regions, each deriving its specific character from the predominant occupations of its people:—

1. *The Eastern Fishing, Lumbering and Mining Region*, comprising the river valley and gulf of the St. Lawrence, together with the Atlantic coast; in other words, the greater part of the Maritime Provinces, the northern part of the province of Quebec (excluding the former district of Ungava), and a portion of northern Ontario.

2. *The Eastern Agricultural and Industrial Region*, comprising the cultivated portions of the Maritime Provinces and of the provinces of Quebec and Ontario. In the latter provinces the cultivated areas extend along the banks of the St. Lawrence and its tributaries.

3. *The Central Agricultural Region*, extending from the Red River valley to the Rocky mountains and from the Canada-United States boundary to about 56° N. lat.

4. *The Western Fishing, Mining and Lumbering Region*, comprising the western portion of the province of Alberta, the whole of British Columbia and the southern portion of Yukon.

5. *The Northern Fishing and Hunting Region*, extending from the regions of permanent settlement northwards, and from the boundary of Labrador to the Pacific and to the Alaskan Boundary. This vast region is sparsely inhabited by indigenous nomadic tribes engaged in fishing and hunting for their own support or for exchange with the fur-trading companies, and with individual whalers and traders who visit the region.

Great differences exist between the products of these various regions; even the fisheries and lumber products of the east are quite distinct from those of British Columbia. The needs of the people throughout the country are met to a great extent by the exchange of the products of one region for those of another.

Interprovincial trade in what is now Canada had its beginning, many years before Confederation, in the exchange of the furs and lumber products of Upper and Lower Canada for the fisheries and mineral products of the Maritimes. Indeed, it was thought at the time of Confederation that the coal fields of Nova Scotia would furnish sufficient fuel for the needs of all the eastern part of the Dominion. Later, manufacturers of Ontario and Quebec found markets from one end of the Dominion to the other in exchange for the farm, mineral and other products required by large urban communities and produced principally in western and northern regions. Thus the principle of comparative advantage is seen operating in the increased trade between the economic regions of the Dominion, a trade which is principally

\* Revised by G. S. Wrong, B.Sc., Chief of the Transportation Branch, Dominion Bureau of Statistics.



carried on over the railways of the country, but also largely over its waterways. A comparatively new development is the inauguration of sea transport between Eastern Canada and British Columbia *via* the Panama Canal. (See pp. 754-755.)

A monthly railway traffic report is published by the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics showing, for each province and for the Dominion as a whole, the total *revenue* freight traffic of all railways (not the "on company service" freight), divided into 76 classes of commodities. The data also show the quantity of each class that originated and terminated in each province, and are of use in computing the imports and exports of each province for each of the 76 classes of commodities. These statistics show rail traffic only, a limitation which should be borne in mind in connection with the trade of provinces having water transportation. Summary figures for all commodities are given in Table 1.

The revenue freight traffic movement on the steam railways of Canada fluctuates to a certain extent with the yield of the crops and with activity in the mining and construction industries involving heavy movements of low-grade freight. The general trend from 1921 to 1928 was upward, increasing from 83,814,436 tons of freight carried in 1921 to 119,227,758 tons in 1928. In 1929, however, a decrease to 114,600,778 tons and in 1930 a further decrease to 95,833,228 tons were reported and, with the continued industrial depression, there have been still greater decreases to 73,837,245 tons in 1931, to 60,468,093 tons in 1932 and to 57,099,111 tons in 1933, but latest figures indicate a rise to 67,681,499 tons in 1934.

Statements similar to that in Table 1 may be compiled for any of the 76 commodities for which statistics are collected, showing the interprovincial trade by rail in these commodities. For details see "Summary of Monthly Traffic Reports of the Railways of Canada, 1933", obtainable from the Dominion Bureau of Statistics.

**1.—Railway Revenue Freight Traffic Movement in Canada and the Provinces, calendar years 1932 and 1933.**

| Province.                 | Originating in Canada or Specified Province. |                     | Received from Foreign Connections. |                     | Totals, Freight Originating. <sup>1</sup> |                     |
|---------------------------|----------------------------------------------|---------------------|------------------------------------|---------------------|-------------------------------------------|---------------------|
|                           | 1932.                                        | 1933.               | 1932.                              | 1933.               | 1932.                                     | 1933.               |
|                           | tons.                                        | tons.               | tons.                              | tons.               | tons.                                     | tons.               |
| Prince Edward Island..... | 148, 222                                     | 159, 739            | 357                                | 1, 174              | 148, 579                                  | 160, 913            |
| Nova Scotia.....          | 4, 343, 520                                  | 4, 643, 910         | 104, 865                           | 100, 371            | 4, 448, 385                               | 4, 744, 281         |
| New Brunswick.....        | 1, 187, 667                                  | 1, 289, 648         | 424, 864                           | 357, 951            | 1, 612, 531                               | 1, 647, 599         |
| Quebec.....               | 5, 809, 083                                  | 5, 908, 230         | 2, 419, 466                        | 2, 438, 334         | 8, 228, 549                               | 8, 346, 564         |
| Ontario.....              | 10, 632, 413                                 | 10, 028, 089        | 13, 019, 600                       | 12, 434, 555        | 23, 652, 013                              | 22, 462, 644        |
| Manitoba.....             | 3, 308, 791                                  | 3, 037, 628         | 118, 392                           | 116, 731            | 3, 427, 183                               | 3, 154, 359         |
| Saskatchewan.....         | 6, 095, 923                                  | 5, 642, 056         | 271, 063                           | 269, 369            | 6, 366, 986                               | 5, 911, 425         |
| Alberta.....              | 9, 133, 978                                  | 7, 175, 141         | 99, 465                            | 93, 638             | 9, 233, 443                               | 7, 268, 779         |
| British Columbia.....     | 3, 154, 067                                  | 3, 229, 828         | 196, 357                           | 172, 719            | 3, 350, 424                               | 3, 402, 547         |
| <b>Totals.....</b>        | <b>43, 813, 664</b>                          | <b>41, 114, 269</b> | <b>16, 654, 429</b>                | <b>15, 984, 842</b> | <b>60, 468, 093</b>                       | <b>57, 099, 111</b> |

| Province.                 | Terminating in Canada or Specified Province. |                     | Delivered to Foreign Connections. |                     | Totals, Freight Terminating. <sup>1</sup> |                     |
|---------------------------|----------------------------------------------|---------------------|-----------------------------------|---------------------|-------------------------------------------|---------------------|
|                           | 1932.                                        | 1933.               | 1932.                             | 1933.               | 1932.                                     | 1933.               |
|                           | tons.                                        | tons.               | tons.                             | tons.               | tons.                                     | tons.               |
| Prince Edward Island..... | 202, 599                                     | 178, 673            | 17, 462                           | 25, 095             | 220, 061                                  | 203, 768            |
| Nova Scotia.....          | 3, 702, 259                                  | 3, 924, 072         | 347, 655                          | 412, 878            | 4, 049, 914                               | 4, 336, 950         |
| New Brunswick.....        | 1, 262, 070                                  | 1, 247, 253         | 792, 808                          | 824, 778            | 2, 054, 878                               | 2, 072, 031         |
| Quebec.....               | 6, 053, 625                                  | 5, 400, 467         | 3, 285, 285                       | 3, 310, 835         | 9, 338, 910                               | 8, 711, 302         |
| Ontario.....              | 17, 621, 433                                 | 16, 987, 136        | 9, 789, 603                       | 10, 236, 814        | 27, 411, 036                              | 27, 223, 950        |
| Manitoba.....             | 3, 324, 554                                  | 2, 868, 871         | 238, 713                          | 212, 357            | 3, 563, 267                               | 3, 081, 228         |
| Saskatchewan.....         | 3, 503, 492                                  | 2, 983, 981         | 158, 217                          | 179, 869            | 3, 661, 709                               | 3, 163, 850         |
| Alberta.....              | 2, 809, 910                                  | 2, 239, 123         | 1, 702                            | 2, 365              | 2, 811, 612                               | 2, 241, 488         |
| British Columbia.....     | 2, 224, 317                                  | 2, 309, 759         | 3, 758, 897                       | 2, 900, 780         | 5, 983, 214                               | 5, 210, 539         |
| <b>Totals.....</b>        | <b>40, 704, 259</b>                          | <b>38, 139, 335</b> | <b>18, 390, 342</b>               | <b>18, 105, 771</b> | <b>59, 094, 601</b>                       | <b>56, 245, 106</b> |

<sup>1</sup>The freight originating and that terminating will not agree because that which originates within a certain year does not all terminate within the same year. On the other hand some which terminated in 1933, for instance, originated within the previous year.

## Section 2.—Grain Trade Statistics.\*

The Canada Year Book, 1922-23, contained on pp. 581-583, an historical summary of the more important points respecting the shipment, inspection and sale of Canadian grain under the Canada Grain Act, and an outline of the Canada Grain Act of 1925 appeared at p. 1017 of the 1925 Year Book. The 1929 amendments were dealt with at pp. 1047-1048 of the 1930 Year Book, and the Canada Grain Act, 1930, at p. 1101 of the 1931 Year Book.

**Movement of Canadian Wheat, Crop Year 1932-33.**—For a description of the wheat crop movement in this year the reader is referred to the "Report on the Grain Trade of Canada for the crop year ended July 31, 1933," which may be obtained from the King's Printer, Ottawa, at a price of fifty cents. A chart illustrating this movement will be found on p. 644 following.

\* Revised by Dr. T. W. Grindley, Chief, Agricultural Branch, Dominion Bureau of Statistics.

### 2.—Summary of the Distribution of Canadian Grain, crop year ended July 31, 1933.

| Item.                                                               | Wheat.      | Oats.       | Barley.    | Flax.     | Rye.       |
|---------------------------------------------------------------------|-------------|-------------|------------|-----------|------------|
|                                                                     | bush.       | bush.       | bush.      | bush.     | bush.      |
| 1. On hand, Aug. 1, 1932—                                           |             |             |            |           |            |
| In farmers' hands.....                                              | 7,495,800   | 22,823,000  | 3,477,000  | 7,100     | 146,000    |
| In Eastern elevators.....                                           | 17,839,890  | 1,335,807   | 369,709    | 33,790    | 1,535,827  |
| In flour mills and mill elevators,<br>Western Division.....         | 6,009,490   | 733,000     | 966,123    | 47,266    | 30,385     |
| In interior elevators, Western Division                             | 102,412     | 4,444       | 4,121      | 1,030     | 263        |
| In Vancouver and New Westminster<br>elevators.....                  | 8,530,406   | 477,097     | 140,881    | 199       | 7,983      |
| In Victoria and Prince Rupert elevators.....                        | 1,174,882   | —           | —          | —         | —          |
| In Churchill elevator.....                                          | 2,290,508   | —           | —          | —         | —          |
| In country and private terminals,<br>Western Division.....          | 27,499,002  | 731,029     | 384,330    | 126,113   | 502,278    |
| In public and private terminals,<br>Fort William and Port Arthur... | 48,683,128  | 2,727,871   | 1,296,802  | 1,040,165 | 2,542,044  |
| Afloat for unloading at Canadian<br>ports.....                      | 6,597,843   | 252,043     | 378,118    | 35,533    | 544,264    |
| In flour mills.....                                                 | 2,895,905   | 476,995     | 78,735     | —         | 37,836     |
| In transit.....                                                     | 2,725,540   | 288,033     | 99,836     | 30,162    | 71,835     |
| Totals On Hand.....                                                 | 131,844,806 | 29,849,319  | 7,195,655  | 1,321,358 | 5,418,715  |
| 2. Crop, 1932.....                                                  | 443,061,000 | 391,561,000 | 80,773,000 | 2,719,000 | 8,470,000  |
| 3. Shipped In from—                                                 |             |             |            |           |            |
| U.S.A. and other countries.....                                     | 173,005     | 2,032,065   | 3,269      | 766       | 20         |
| 4. Total annual stocks (sum of 1, 2 and 3)                          | 575,078,811 | 423,442,384 | 87,971,924 | 4,041,124 | 13,888,735 |
| 5. Shipped Out to—                                                  |             |             |            |           |            |
| U.S.A.....                                                          | 304,976     | 79,363      | —          | 717,605   | 200,090    |
| United Kingdom.....                                                 | 156,461,736 | 6,820,013   | 4,745,053  | 76,786    | 667,595    |
| Other countries.....                                                | 83,369,856  | 4,176,421   | 646,346    | —         | 1,998,763  |
| Totals Shipped Out.....                                             | 240,136,568 | 11,075,797  | 5,391,399  | 794,391   | 2,866,758  |
| 6. Milled—                                                          |             |             |            |           |            |
| For domestic consumption.....                                       | 43,620,782  | 7,214,753   | 733,636    | 1,478,919 | —          |
| For export.....                                                     | 24,167,759  | 3,342,477   | —          | —         | 2,116      |
| Consumed in malting and brewing<br>establishments.....              | —           | —           | 5,090,094  | —         | —          |
| 7. Totals disposed of commercially (sum<br>of 5 and 6).....         | 307,925,109 | 21,633,027  | 11,215,129 | 2,273,310 | 2,868,474  |
| 8. Feed for live stock and poultry.....                             | 22,995,865  | —           | —          | —         | —          |
| 9. Used for seed.....                                               | 32,277,000  | 33,822,250  | 7,316,000  | 121,800   | 874,650    |

2.—Summary of the Distribution of Canadian Grain, crop year ended  
July 31, 1933—concluded.

| Item.                                                                                                                               | Wheat.         | Oats.       | Barley.    | Flax.     | Rye.       |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|------------|-----------|------------|
|                                                                                                                                     | bush.          | bush.       | bush.      | bush.     | bush.      |
| 10. In Store, July 31, 1933—                                                                                                        |                |             |            |           |            |
| In farmers' hands.....                                                                                                              | 12,340,000     | 27,701,000  | 3,102,000  | 17,700    | 156,600    |
| In Eastern elevators.....                                                                                                           | 34,171,909     | 1,714,231   | 865,646    | 88,719    | 1,180,809  |
| In flour mills and mill elevators,<br>Western Division.....                                                                         | 6,008,904      | 1,161,631   | 1,355,957  | 69,198    | 11,683     |
| In interior terminals, Western Division.....                                                                                        | 2,003,654      | 42,379      | 4,324      | 92        | 224        |
| In Vancouver and New Westminster<br>elevators.....                                                                                  | 9,351,581      | 627,593     | 501,164    | 1,116     | 117,898    |
| In Victoria and Prince Rupert elevators.....                                                                                        | 2,947          | —           | —          | —         | —          |
| In Churchill elevator.....                                                                                                          | 2,430,283      | —           | —          | —         | —          |
| In country and private terminals,<br>Western Division.....                                                                          | 71,846,187     | 5,194,155   | 2,203,384  | 157,745   | 902,451    |
| In public and private terminals,<br>Fort William and Port Arthur.....                                                               | 61,361,463     | 3,397,847   | 2,802,967  | 766,923   | 3,304,284  |
| In Eastern Division—afloat.....                                                                                                     | 3,834,344      | 605,068     | 49,207     | —         | —          |
| In flour mills, Eastern Division.....                                                                                               | 3,198,366      | 961,775     | 109,861    | 1,824     | 12,855     |
| In transit.....                                                                                                                     | 5,190,550      | 628,750     | 343,812    | 76,258    | 127,923    |
| Totals In Store.....                                                                                                                | 211,740,188    | 42,044,758  | 11,338,322 | 1,179,575 | 5,814,727  |
| 11. Totals accounted for (sum 7, 8, 9 and 10).....                                                                                  | 574,938,162    | 97,500,035  | 29,869,451 | 3,574,685 | 9,557,851  |
| 12. Losses in cleaning.....                                                                                                         | 7,200,000      | 51,989      | 80,576     | 162,695   | 3,958      |
| 13. Grain, not merchantable.....                                                                                                    | 2,108,000      | 8,043,000   | 730,900    | 32,000    | 45,200     |
| 14. Balances, merchantable grain fed on<br>farms or otherwise consumed in and<br>moved out of Canada through other<br>channels..... | — 9,167,351    | 317,847,360 | 57,290,997 | 271,744   | 4,281,926  |
| 15. Totals (sum 11 to 14).....                                                                                                      | 575,078,811    | 423,442,384 | 87,971,924 | 4,041,124 | 13,888,735 |
| 16. Amounts inspected.....                                                                                                          | 324,390,458    | 27,212,937  | 12,589,405 | 1,714,500 | 2,892,336  |
| 17. Percentages inspected.....                                                                                                      | 73.22          | 6.95        | 15.59      | 63.06     | 34.15      |
| 18. Percentages of commercial grain in-<br>spected (Line 16 of 11).....                                                             | 56.42          | 27.91       | 42.15      | 47.96     | 30.26      |
| 19. Commercial grain from season's crop<br>(10 and 7-1-3).....                                                                      | 387,647,486    | 31,796,401  | 15,354,527 | 2,130,761 | 3,264,466  |
| 20. Percentages of crop commercial grain<br>(Line 19 of 2).....                                                                     | 87.49          | 8.12        | 19.01      | 78.37     | 38.54      |
| 21. Values of crop.....                                                                                                             | \$ 154,760,000 | 75,988,000  | 18,855,000 | 1,682,000 | 2,284,000  |

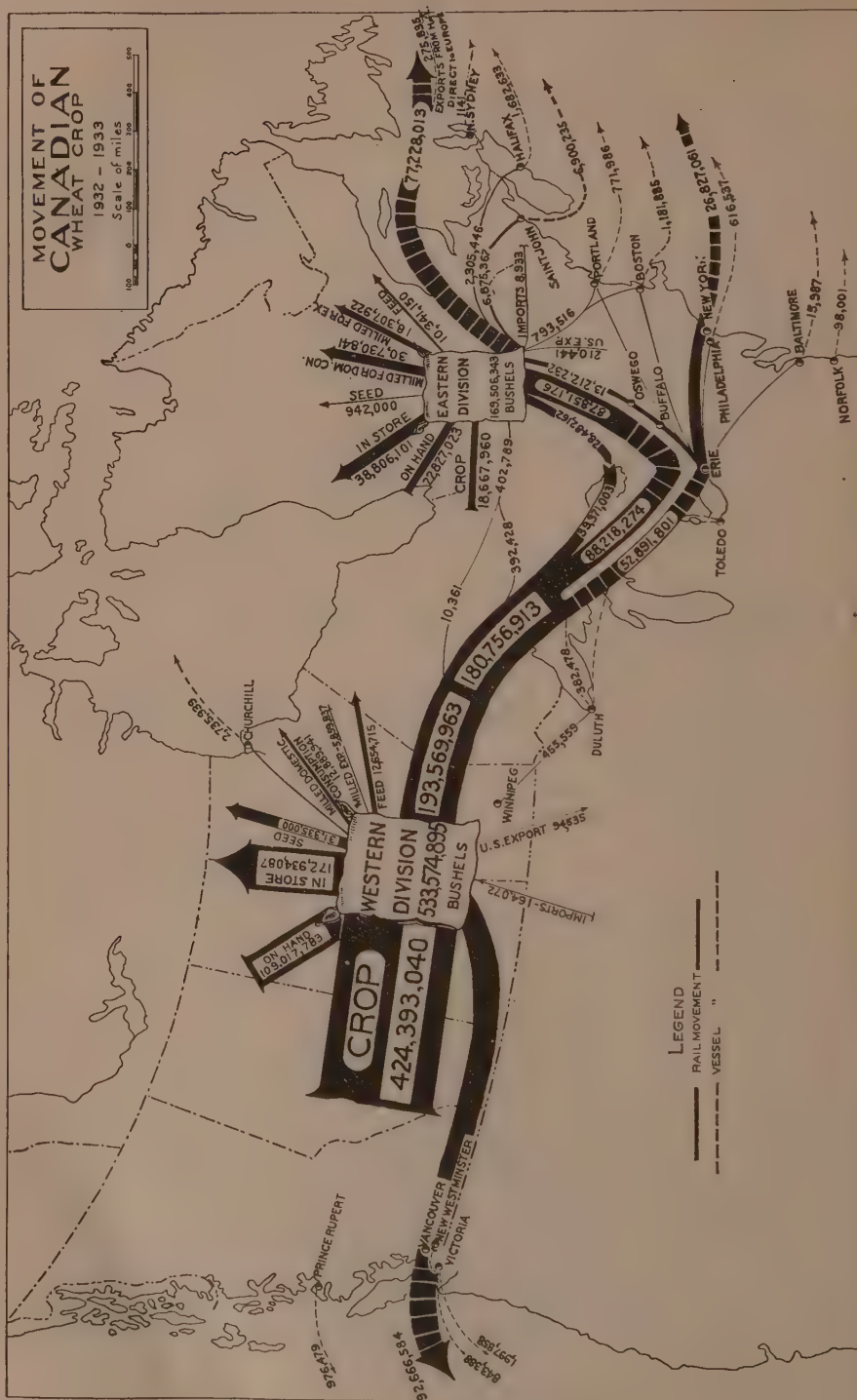
**Movement of Canadian Wheat, Crop Year 1933-34.**—A résumé of the Canadian wheat movement naturally begins with a description of the crop of the Western Inspection Division. The wheat crop of 1933 marketed in the Western Division during the crop year from Aug. 1, 1933, to July 31, 1934, amounted to 264.3 million bushels. A carry-over of 172.9 million bushels from the previous crop year, together with some minor items, brought the stock of the Western Division to a total for the year of 437.0 million bushels. As for distribution, 260.8 million bushels were commercially disposed of, the chief items of which were 75.3 million bushels exported to the United Kingdom and 101.5 million bushels shipped to the Eastern Division. The direct exports to the United States were only 117 thousand bushels and to other countries 20 million bushels. The total shipments from the Western Division were thus 215.4 million bushels. The wheat used by the milling companies for the manufacture of flour amounted to about 17.1 million bushels, of which 12.7 million bushels were ground into flour for domestic consumption. The all-rail movement eastward from the Western Division, including shipments to the Ogilvie Flour Mills Co. at Fort William for grindings, was 201 thousand bushels. Lake shipments from Fort William and Port Arthur were 145.9 million bushels,

# MOVEMENT OF CANADIAN WHEAT CROP

1932 - 1933

Scale of miles

0 100 200 300 400 500





100.7 million bushels going to Canadian ports and 45.2 million to United States' ports. The shipments to Canadian and U.S. ports represented, respectively, a decrease of 21.1 p.c. and a decrease of 14.4 p.c. from 1932-33. The principal Canadian lake ports were those of lake Huron and Georgian bay, with receipts of 25.7 million bushels, and Port Colborne with 19.8 million bushels. Among the United States' lake ports, Buffalo was of chief importance in the handling of Canadian wheat, with receipts by water from Port Arthur and Fort William of 40.8 million bushels. The export of wheat through Vancouver was 45.4 million bushels, as compared with 96.4 million in the previous crop year; 2.8 million bushels were exported through New Westminster, and 2.7 million from Churchill. The seed requirements were estimated at 29.2 million bushels, feed for livestock and poultry at 9.3 million bushels, and the stocks at the end of the crop year were 158.6 million bushels.

The Eastern Division received during the crop year not only the eastern crop, estimated at 17.5 million bushels, but also shipments from the West aggregating 101.5 million bushels. The quantity on hand at the beginning of the crop year was 38.8 million bushels, making, with a comparatively small importation from the United States, a total stock entering the Eastern Division of 158.1 million bushels. The distribution included 35.3 million bushels carried over in store into the following year, 66.6 million bushels exported from the St. Lawrence ports, and 7.7 million bushels shipped through the winter ports of Saint John and Halifax. In addition, 44.6 million bushels were cleared for export to the United Kingdom and other countries *via* the United States' Atlantic ports. The chief ports concerned with the movement of Canadian grain from both Divisions were New York, Albany, Boston and Portland.

Total exports from Canada to the United States for consumption amounted to 218,814 bushels, to the United Kingdom 114.8 million bushels, to other countries 55.1 million bushels; 127.6 million bushels were shown to be shipped *via* Canadian ports and 42.3 million bushels *via* United States' ports, after deducting 2.3 million bushels transhipped from Buffalo to Montreal and adding the same to the Canadian movement. Total exports of wheat from Canada during the crop year amounted to 170.2 million bushels.

Table 3 shows, for the licence years 1933 and 1934, the number of railway stations at which elevators are placed, the number of elevators and their total storage capacity, the figures being given by provinces for each class of elevator, with a summary showing the total of all elevators for each province. The growth of Canadian elevators in number and capacity has accompanied the expansion of grain acreage in the present century. Canadian elevators in 1901 numbered 426 with a capacity of 18,329,352 bushels; in 1911 these had increased to 1,909 elevators and 105,462,700 bushels; and totals of 3,855 elevators and 231,213,620 bushels were reached in 1921. Further increases in the past few years have resulted in a total of 5,901 elevators with a capacity of 419,592,660 bushels in 1934.

Table 4 gives summary statistics of the inspections of grain for 1931-34, detailed statistics given in previous Year Books being omitted to save space. The latter may be found in the Reports on the Grain Trade of Canada.\* Tables 5 and 6 show the shipments of grain by vessel and rail for 1933 and 1934.

Tables 7 and 8 deal with the Canadian grain handled in recent years at Eastern elevators, while Tables 9 and 10 show the average cost of delivering a bushel of wheat from the Canadian wheat producer to British ports, by both the Atlantic and Pacific routes.

\* The latest report is for the crop year ended July 31, 1934, and may be obtained from the Dominion Statistician.

**2A.—Summary of the Distribution of Canadian Grain, crop year ended  
July 31, 1934.**

| Item.                                                              | Wheat.      | Oats.       | Barley.    | Flax.         | Rye.      | Buck-<br>wheat. |
|--------------------------------------------------------------------|-------------|-------------|------------|---------------|-----------|-----------------|
|                                                                    | bush.       | bush.       | bush.      | bush.         | bush.     | bush.           |
| 1. On Hand, Aug. 1, 1933—                                          |             |             |            |               |           |                 |
| In farmers' hands.....                                             | 12,340,000  | 27,701,000  | 3,102,000  | 17,700        | 156,600   | 1,688,000       |
| In Eastern elevators.....                                          | 34,171,909  | 1,714,231   | 865,646    | 88,719        | 1,180,809 | -               |
| In flour mills and mill elevators, Western Division.....           | 6,008,904   | 1,161,631   | 1,355,957  | 69,198        | 11,683    | -               |
| In interior terminals, Western Division.....                       | 2,003,654   | 42,379      | 4,324      | 92            | 224       | -               |
| In Vancouver and New Westminster elevators.....                    | 9,351,581   | 627,593     | 501,164    | 1,116         | 117,898   | -               |
| In Victoria and Prince Rupert elevators.....                       | 2,947       | -           | -          | -             | -         | -               |
| In Churchill elevator.....                                         | 2,430,283   | 10,329      | -          | -             | -         | -               |
| In country and private terminals.....                              | 71,846,187  | 5,194,155   | 2,203,384  | 157,745       | 902,451   | -               |
| In Fort William and Port Arthur.....                               | 61,361,463  | 3,397,847   | 2,802,967  | 766,923       | 3,304,284 | -               |
| In Eastern Division—afloat.....                                    | 3,834,344   | 605,068     | 49,207     | -             | -         | -               |
| In flour mills.....                                                | 3,198,366   | 961,775     | 109,861    | 1,824         | 12,855    | -               |
| In transit.....                                                    | 5,190,550   | 628,750     | 343,812    | 76,258        | 127,923   | -               |
| Totals On Hand.....                                                | 211,740,188 | 42,044,758  | 11,338,322 | 1,179,575     | 5,814,727 | 1,688,000       |
| 2. Crop, 1933.....                                                 | 281,892,000 | 307,478,000 | 63,359,000 | 632,000       | 4,177,000 | 8,483,000       |
| 3. Shipped In from—                                                |             |             |            |               |           |                 |
| U.S.A. and other countries.....                                    | 413,165     | 20,632      | 15,251     | 607,780       | -         | 27              |
| 4. Total annual stocks (sum of 1, 2 and 3).....                    | 494,045,353 | 349,543,390 | 74,712,573 | 2,419,355     | 9,991,727 | 10,171,027      |
| 5. Shipped Out to—                                                 |             |             |            |               |           |                 |
| U.S.A.....                                                         | 218,814     | 68,091      | 223,059    | 182,740       | 2,345,771 | 92,868          |
| United Kingdom.....                                                | 114,858,191 | 4,585,006   | 1,455,808  | 4,596         | 233,248   | 53,662          |
| Other countries.....                                               | 55,157,008  | 1,434,738   | 21,724     | 71            | 618       | 318,929         |
| Totals Shipped Out.....                                            | 170,234,013 | 6,087,835   | 1,710,651  | 187,407       | 2,579,637 | 465,459         |
| 6. Milled—                                                         |             |             |            |               |           |                 |
| For domestic consumption.....                                      | 43,068,366  | 6,768,593   | 777,924    | Not available | -         | 204,151         |
| For export.....                                                    | 24,545,862  | 3,052,177   | -          | -             | 2,307     | -               |
| Consumed in malting and brewing establishments.....                | -           | -           | 5,000,000  | -             | -         | -               |
| 7. Totals disposed of commercially (sum of 5 and 6).....           | 237,848,241 | 15,908,605  | 7,488,575  | -             | 2,581,944 | 669,610         |
| 8. Feed for live stock and poultry.....                            | 17,039,900  | -           | -          | -             | -         | -               |
| 9. Used for seed.....                                              | 29,981,250  | 34,327,000  | 7,225,000  | 113,450       | 1,102,350 | 814,400         |
| 10. In Store, July 31, 1934—                                       |             |             |            |               |           |                 |
| In farmers' hands.....                                             | 8,733,000   | 19,333,000  | 1,839,000  | 3,400         | 37,000    | 1,684,000       |
| In Eastern elevators.....                                          | 31,589,203  | 2,768,193   | 2,013,099  | -             | 813,329   | -               |
| In Eastern Division—afloat.....                                    | 2,643,057   | 207,780     | 110,825    | -             | -         | -               |
| In flour mills and mill elevators, Western Division.....           | 6,849,452   | 1,137,341   | 1,225,715  | 24,325        | 45,463    | -               |
| In interior terminals, Western Division.....                       | 1,646,238   | 106,792     | 805        | 77            | 164       | -               |
| In Vancouver and New Westminster elevators.....                    | 7,564,976   | 355,405     | 107,324    | 152           | 67,427    | -               |
| In Victoria and Prince Rupert elevators.....                       | 2,019,495   | -           | -          | -             | -         | -               |
| In Churchill elevator.....                                         | 2,475,764   | -           | -          | -             | -         | -               |
| In country and private terminals, Western Division.....            | 63,505,416  | 3,575,130   | 1,628,235  | 99,954        | 538,171   | -               |
| In public and private terminals, Fort William and Port Arthur..... | 59,388,654  | 2,403,429   | 3,856,828  | 334,339       | 2,448,871 | -               |
| In transit.....                                                    | 5,081,489   | 387,508     | 231,424    | 8,813         | 42,851    | -               |
| In flour mills, Eastern Division.....                              | 2,493,537   | 785,919     | 78,775     | 235           | 3,031     | -               |
| Totals In Store.....                                               | 193,990,281 | 31,060,497  | 11,092,030 | 471,295       | 3,996,307 | 1,684,000       |

**2A.—Summary of the Distribution of Canadian Grain, crop year ended July 31, 1934—concluded.**

| Item.                                                                                                                      | Wheat.      | Oats.       | Barley.    | Flax.     | Rye.      | Buck-wheat. |
|----------------------------------------------------------------------------------------------------------------------------|-------------|-------------|------------|-----------|-----------|-------------|
|                                                                                                                            | bush.       | bush.       | bush.      | bush.     | bush.     | bush.       |
| 11. Totals accounted for (sum 7, 8, 9 and 10).....                                                                         | 478,859,672 | 81,296,102  | 25,805,605 | 7,584,745 | 7,680,601 | 3,168,010   |
| 12. Losses in cleaning.....                                                                                                | 4,500,000   | 50,000      | 80,000     | 160,000   | 3,000     | —           |
| 13. Grain, not merchantable.....                                                                                           | 2,965,400   | 7,719,000   | 743,000    | 2,700     | 34,000    | 338,200     |
| 14. Balances, merchantable grain fed on farms or otherwise consumed in and moved out of Canada through other channels..... | 7,720,281   | 260,478,288 | 48,083,968 | —         | 2,274,126 | 6,664,817   |
| 15. Totals (sum 11 to 14).....                                                                                             | 494,045,353 | 349,543,390 | 74,712,573 | 2,419,355 | 9,991,727 | 10,171,027  |
| 16. Amounts inspected.....                                                                                                 | 228,122,000 | 31,520,000  | 13,413,000 | 351,800   | 1,307,000 | 271,582     |
| 17. Percentages inspected.....                                                                                             | 84.57       | 10.25       | 21.17      | 55.66     | 30.21     | 3.20        |
| 18. Percentages of commercial grain inspected (Line 16 of 11).....                                                         | 47.64       | 38.77       | 51.98      | 60.16     | 17.02     | —           |
| 19. Commercial grain from season's crop (10 and 7-1-3).....                                                                | 219,685,169 | 4,903,712   | 7,227,032  | 1,128,653 | 763,524   | —           |
| 20. Percentages of crop commercial grain (line 19 of 2).....                                                               | 77.93       | 1.59        | 11.41      | —         | 18.28     | —           |
| 21. Values of crop.....\$                                                                                                  | 136,958,000 | 79,918,000  | 18,954,000 | 756,000   | 1,603,000 | 4,572,000   |

**3.—Numbers and Storage Capacities of Canadian Grain Elevators, licence years 1933 and 1934.**

NOTE.—Detailed statistics of elevators for the years 1901 to 1918 are given in the 1921 Year Book, pp. 507-509, and the figures for 1919 to 1924 will be found in the 1924 Year Book, pp. 549-550. For 1925 and 1926 see p. 616 of the 1927-28 Year Book, for 1927 and 1928 see p. 609 of the 1929 Year Book, for 1929 and 1930, p. 624 of the 1931 Year Book and 1931, p. 508 of the 1932 Year Book, and 1932, p. 608 of the 1933 Year Book.

| Division, Elevator and Province.       | 1933.      |             | 1934.      |             |
|----------------------------------------|------------|-------------|------------|-------------|
|                                        | Elevators. | Capacity.   | Elevators. | Capacity.   |
|                                        | No.        | bush.       | No.        | bush.       |
| <b>WESTERN DIVISION.</b>               |            |             |            |             |
| Country Elevators—                     |            |             |            |             |
| Ontario.....                           | 1          | 40,000      | 1          | 40,000      |
| Manitoba.....                          | 723        | 23,015,850  | 724        | 22,908,350  |
| Saskatchewan.....                      | 3,238      | 102,274,050 | 3,232      | 102,286,850 |
| Alberta.....                           | 1,769      | 66,481,900  | 1,776      | 66,583,800  |
| British Columbia.....                  | 10         | 349,000     | 11         | 358,000     |
| Totals, Country Elevators.....         | 5,741      | 192,160,800 | 5,744      | 192,177,000 |
| Private Country Elevators—             |            |             |            |             |
| Manitoba.....                          | 3          | 100,000     | 4          | 115,000     |
| Saskatchewan.....                      | 2          | 53,000      | 5          | 243,000     |
| Alberta.....                           | 4          | 140,000     | 5          | 215,000     |
| Totals, Private Country Elevators..... | 9          | 293,000     | 14         | 573,000     |
| Mill Elevators—                        |            |             |            |             |
| Ontario.....                           | 1          | 185,000     | 1          | 185,000     |
| Manitoba.....                          | 6          | 167,500     | 5          | 162,500     |
| Saskatchewan.....                      | 10         | 139,000     | 9          | 144,000     |
| Alberta.....                           | 3          | 63,000      | 3          | 63,000      |
| British Columbia.....                  | 10         | 442,000     | 11         | 446,000     |
| Totals, Mill Elevators.....            | 30         | 996,500     | 29         | 1,000,500   |
| Private Terminal—                      |            |             |            |             |
| Ontario.....                           | 7          | 1,940,000   | 7          | 1,940,000   |
| Manitoba.....                          | 13         | 4,292,450   | 12         | 4,217,450   |
| Saskatchewan.....                      | 6          | 4,585,500   | 6          | 4,585,500   |
| Alberta.....                           | 15         | 4,095,000   | 14         | 4,025,000   |
| British Columbia.....                  | 2          | 570,000     | 2          | 570,000     |
| Totals, Private Terminals.....         | 43         | 15,482,950  | 41         | 15,337,950  |

### 3.—Numbers and Storage Capacities of Canadian Grain Elevators, licence years 1933 and 1934—concluded.

| Division, Elevator and Province.     | 1933.        |                    | 1934.        |                    |
|--------------------------------------|--------------|--------------------|--------------|--------------------|
|                                      | Elevators.   | Capacity.          | Elevators.   | Capacity.          |
|                                      | No.          | bush.              | No.          | bush.              |
| <b>WESTERN DIVISION—concluded.</b>   |              |                    |              |                    |
| Public Terminal—                     |              |                    |              |                    |
| Ontario.....                         | 2            | 9,000,000          | —            | —                  |
| Manitoba.....                        | —            | —                  | —            | —                  |
| Saskatchewan.....                    | 2            | 11,000,000         | 2            | 11,000,000         |
| Alberta.....                         | 3            | 6,250,000          | 3            | 6,250,000          |
| British Columbia.....                | 2            | 1,900,000          | 2            | 3,365,000          |
| Totals, Public Terminals.....        | 9            | 28,150,000         | 7            | 20,615,000         |
| Semi-Public Terminal—                |              |                    |              |                    |
| Ontario.....                         | 25           | 83,592,210         | 27           | 92,542,210         |
| Manitoba.....                        | 2            | 3,500,000          | 2            | 3,500,000          |
| British Columbia.....                | 8            | 18,758,000         | 8            | 17,508,000         |
| Totals, Semi-Public Terminals.....   | 35           | 105,850,210        | 37           | 113,550,210        |
| <b>Totals, Western Division.....</b> | <b>5,867</b> | <b>342,933,460</b> | <b>5,872</b> | <b>343,253,660</b> |
| <b>EASTERN DIVISION.</b>             |              |                    |              |                    |
| Eastern Elevators—                   |              |                    |              |                    |
| Nova Scotia.....                     | 1            | 2,200,000          | 1            | 2,200,000          |
| New Brunswick.....                   | 2            | 1,500,000          | 2            | 1,500,000          |
| Quebec.....                          | 7            | 21,787,000         | 8            | 22,539,000         |
| Ontario.....                         | 18           | 50,100,000         | 18           | 50,100,000         |
| <b>Totals, Eastern Division.....</b> | <b>28</b>    | <b>75,587,000</b>  | <b>29</b>    | <b>76,339,000</b>  |
| <b>Summary by Provinces—</b>         |              |                    |              |                    |
| Nova Scotia.....                     | 1            | 2,200,000          | 1            | 2,200,000          |
| New Brunswick.....                   | 2            | 1,500,000          | 2            | 1,500,000          |
| Quebec.....                          | 7            | 21,787,000         | 8            | 22,539,000         |
| Ontario.....                         | 54           | 144,857,210        | 54           | 144,807,210        |
| Manitoba.....                        | 747          | 31,075,800         | 747          | 30,903,300         |
| Saskatchewan.....                    | 3,258        | 118,051,550        | 3,254        | 118,259,350        |
| Alberta.....                         | 1,794        | 77,029,900         | 1,801        | 77,136,800         |
| British Columbia.....                | 32           | 22,019,000         | 34           | 22,247,000         |
| <b>Grand Totals for Canada.....</b>  | <b>5,895</b> | <b>418,520,460</b> | <b>5,901</b> | <b>419,592,660</b> |

### 4.—Quantities of Canadian Grain Inspected during the crop years ended July 31, 1931-34.

| Grain.                    | 1930-31.           |                   |                    | 1931-32.           |                   |                    |
|---------------------------|--------------------|-------------------|--------------------|--------------------|-------------------|--------------------|
|                           | Western Division.  | Eastern Division. | Total.             | Western Division.  | Eastern Division. | Total.             |
|                           | bush.              | bush.             | bush.              | bush.              | bush.             | bush.              |
| Spring wheat.....         | 288,262,434        | 8,604,368         | 296,866,802        | 258,719,120        | 15,000            | 258,734,120        |
| Winter wheat.....         | 432,566            | 231,135           | 663,701            | 146,880            | 170,000           | 316,880            |
| <b>Totals, Wheat.....</b> | <b>288,695,000</b> | <b>8,835,503</b>  | <b>297,530,503</b> | <b>258,866,000</b> | <b>185,000</b>    | <b>259,051,000</b> |
| Oats.....                 | 32,235,000         | 527,159           | 32,762,159         | 41,510,000         | 565,958           | 42,075,958         |
| Barley.....               | 23,532,000         | 79,800            | 23,611,800         | 13,264,000         | 75,450            | 13,339,450         |
| Flax.....                 | 4,131,500          | —                 | 4,131,500          | 1,913,000          | —                 | 1,913,000          |
| Rye.....                  | 7,750,000          | 1,828,771         | 9,578,771          | 3,000,000          | 2,932,607         | 5,932,607          |
| Corn.....                 | —                  | —                 | —                  | —                  | 6,600             | 6,600              |
| Buckwheat.....            | 4,000              | 235,700           | 239,700            | 4,000              | 238,496           | 242,496            |
| Peas.....                 | —                  | —                 | —                  | —                  | 1,000             | 1,000              |
| Speltz.....               | —                  | —                 | —                  | —                  | —                 | —                  |
| Screenings.....           | —                  | —                 | —                  | —                  | —                 | —                  |
| Mixed grains.....         | 294,000            | —                 | 294,000            | 244,500            | —                 | 244,500            |
| <b>Totals, Grain.....</b> | <b>356,641,500</b> | <b>11,506,933</b> | <b>368,148,433</b> | <b>318,801,500</b> | <b>4,005,111</b>  | <b>322,806,611</b> |



**4.—Quantities of Canadian Grain Inspected during the crop years ended July 31, 1931-34—concluded.**

| Grain.             | 1932-33.          |                   |             | 1933-34.          |                   |             |
|--------------------|-------------------|-------------------|-------------|-------------------|-------------------|-------------|
|                    | Western Division. | Eastern Division. | Total.      | Western Division. | Eastern Division. | Total.      |
|                    | bush.             | bush.             | bush.       | bush.             | bush.             | bush.       |
| Spring wheat.....  | 323,436,540       | 366,555           | 323,803,095 | 228,014,700       | 4,000             | 228,018,700 |
| Winter wheat.....  | 195,650           | 391,713           | 587,363     | 107,280           | 75,000            | 182,280     |
| Totals, Wheat..... | 323,632,190       | 758,268           | 324,390,458 | 228,121,980       | 79,000            | 228,200,980 |
| Oats.....          | 26,866,375        | 346,562           | 27,212,937  | 31,520,720        | 102,137           | 31,622,857  |
| Barley.....        | 12,543,855        | 45,550            | 12,589,405  | 13,413,400        | 7,500             | 13,420,900  |
| Flax.....          | 1,714,500         | —                 | 1,714,500   | 351,820           | —                 | 351,820     |
| Rye.....           | 2,693,420         | 198,916           | 2,892,336   | 1,306,965         | —                 | 1,306,965   |
| Corn.....          | —                 | —                 | —           | —                 | —                 | —           |
| Buckwheat.....     | 3,000             | 375,940           | 378,940     | 2,000             | 268,582           | 270,582     |
| Peas.....          | —                 | 1,000             | 1,000       | —                 | —                 | —           |
| Speltz.....        | —                 | —                 | —           | —                 | —                 | —           |
| Screenings.....    | 11,000            | —                 | 11,000      | 38,000            | —                 | 38,000      |
| Mixed grains.....  | 180,830           | —                 | 180,830     | 211,665           | 6,097             | 217,762     |
| Totals, Grain..... | 367,645,170       | 1,726,236         | 369,371,406 | 274,966,550       | 463,316           | 275,429,866 |

**5.—Shipments of Grain by Vessels from Fort William and Port Arthur for the navigation seasons 1933 and 1934.**

| Grain.                  | 1933.              |                |                  | 1934.              |                |                  |
|-------------------------|--------------------|----------------|------------------|--------------------|----------------|------------------|
|                         | To Canadian Ports. | To U.S. Ports. | Total Shipments. | To Canadian Ports. | To U.S. Ports. | Total Shipments. |
| Wheat.....bush.         | 114,415,463        | 40,376,492     | 154,791,955      | 92,276,412         | 61,655,207     | 153,931,619      |
| Oats.....bush.          | 12,120,998         | —              | 12,120,998       | 10,891,740         | 2,611,693      | 13,503,433       |
| Barley.....bush.        | 4,075,822          | —              | 4,075,822        | 7,012,735          | 6,320,057      | 13,332,792       |
| Flaxseed.....bush.      | 631,598            | 565,117        | 1,196,715        | 328,800            | —              | 328,800          |
| Rye.....bush.           | 182,797            | 2,037,458      | 2,220,255        | 169,556            | 519,727        | 689,283          |
| Oat scalpings.....bush. | —                  | —              | —                | —                  | —              | —                |
| Totals.....bush.        | 131,426,678        | 42,979,067     | 174,405,745      | 110,679,243        | 71,106,684     | 181,785,927      |
| Screenings.....tons     | 16,641             | 25,586         | 42,227           | 8,725              | 38,901         | 47,626           |

**6.—Shipments of Grain by Lake and All-Rail Routes from Fort William and Port Arthur for the crop years ended July 31, 1933 and 1934.**

| Grain.                 | 1932-33.    |           |             | 1933-34.    |           |             |
|------------------------|-------------|-----------|-------------|-------------|-----------|-------------|
|                        | Lake.       | Rail.     | Total.      | Lake.       | Rail.     | Total.      |
|                        | bush.       | bush.     | bush.       | bush.       | bush.     | bush.       |
| Wheat—                 |             |           |             |             |           |             |
| No. 1 Hard.....        | 20,362,047  | —         | 20,362,047  | 12,404,185  | 46        | 12,404,231  |
| No. 1 Northern.....    | 78,815,912  | 45,000    | 78,860,912  | 81,899,470  | 6,067     | 81,905,537  |
| No. 2 Northern.....    | 65,114,383  | 7,924     | 65,122,307  | 32,578,314  | 36        | 32,578,350  |
| No. 3 Northern.....    | 4,144,694   | 4,379     | 4,149,073   | 5,491,368   | 13,135    | 5,504,503   |
| No. 4.....             | 1,327,104   | 1,472     | 1,328,576   | 3,265,466   | 18,792    | 3,284,258   |
| Other grades.....      | 10,725,272  | 91,582    | 10,816,854  | 10,522,610  | 191,043   | 10,713,653  |
| Totals, Wheat.....     | 180,489,412 | 150,357   | 180,639,769 | 146,161,413 | 229,119   | 146,390,532 |
| Oats.....              | 13,141,407  | 1,226,044 | 14,367,451  | 13,913,478  | 1,977,840 | 15,891,318  |
| Barley.....            | 5,494,346   | 45,130    | 5,539,476   | 6,624,016   | 236,073   | 6,860,089   |
| Flaxseed.....          | 1,661,080   | 292       | 1,661,372   | 609,971     | 42,246    | 652,217     |
| Rye.....               | 1,918,946   | 800       | 1,919,746   | 2,071,861   | 5,808     | 2,077,669   |
| Mixed grains.....      | 32,638      | 9,164     | 41,802      | 12,152      | 17,288    | 29,440      |
| Totals, Other Grain... | 22,248,417  | 1,281,430 | 23,529,847  | 23,231,478  | 2,279,255 | 25,510,733  |

### 7.—Canadian Grain Handled at Eastern Elevators, by crop years ended July 31, 1930-34.

NOTE.—Figures for the crop years 1922 to 1929 are shown at p. 626 of the 1931 edition of the Year Book.

| Year.                        | Wheat.      | Oats.      | Barley.    | Flaxseed. | Rye.       | Total Grain. |
|------------------------------|-------------|------------|------------|-----------|------------|--------------|
|                              | bush.       | bush.      | bush.      | bush.     | bush.      | bush.        |
| Receipts—                    |             |            |            |           |            |              |
| 1929-1930.....               | 132,356,863 | 15,932,469 | 8,381,291  | 658,303   | 3,226,137  | 160,555,063  |
| 1930-1931.....               | 178,120,479 | 20,874,442 | 37,555,371 | 1,710,059 | 6,226,473  | 244,486,824  |
| 1931-1932.....               | 151,395,023 | 17,063,934 | 17,109,737 | 1,012,939 | 15,210,866 | 201,792,499  |
| 1932-1933.....               | 233,419,639 | 17,367,890 | 7,797,343  | 1,116,223 | 3,921,887  | 263,622,982  |
| 1933-1934 <sup>1</sup> ..... | 165,647,625 | 18,026,654 | 7,496,255  | 631,973   | 931,042    | 192,733,549  |
| Shipments—                   |             |            |            |           |            |              |
| 1929-1930.....               | 111,077,966 | 13,372,999 | 6,734,676  | 657,101   | 1,654,237  | 133,496,979  |
| 1930-1931.....               | 163,730,581 | 19,086,592 | 36,485,055 | 1,693,439 | 4,378,874  | 225,374,541  |
| 1931-1932.....               | 133,610,498 | 15,706,287 | 16,807,097 | 974,649   | 13,738,895 | 180,837,426  |
| 1932-1933.....               | 200,254,656 | 15,662,256 | 6,929,791  | 1,027,504 | 2,836,333  | 226,710,540  |
| 1933-1934 <sup>1</sup> ..... | 164,031,323 | 16,908,414 | 6,356,921  | 724,692   | 1,203,467  | 189,724,817  |

<sup>1</sup>Preliminary figures.

### 8.—Canadian Grain Handled at Eastern Elevators, by Classes of Ports, during the crop year ended July 31, 1933.

| Ports.                             | Wheat.      | Oats.     | Barley.   | Flaxseed. | Rye.      | Total.      |
|------------------------------------|-------------|-----------|-----------|-----------|-----------|-------------|
|                                    | bush.       | bush.     | bush.     | bush.     | bush.     | bush.       |
| Lake Huron and Georgian Bay Ports— |             |           |           |           |           |             |
| On hand, Aug. 1, 1932.....         | 5,189,087   | 582,740   | 25,817    | 14,802    | —         | 5,812,446   |
| Receipts—Water.....                | 39,371,003  | 4,552,096 | 744,782   | 301,797   | 566,194   | 45,535,872  |
| Totals handled.....                | 44,560,090  | 5,134,836 | 770,599   | 316,599   | 566,194   | 51,348,318  |
| Shipments—Water.....               | —           | —         | —         | —         | —         | —           |
| Rail.....                          | 28,482,162  | 4,127,634 | 647,767   | 227,880   | 418,731   | 33,904,174  |
| Total shipments.....               | 28,482,162  | 4,127,634 | 647,767   | 227,880   | 418,731   | 33,904,174  |
| In store, July 31, 1933.....       | 16,077,931  | 1,007,201 | 122,833   | 88,719    | 147,463   | 17,444,147  |
| Lower Lake Ports—                  |             |           |           |           |           |             |
| On hand, Aug. 1, 1932.....         | 3,874,921   | 206,493   | 51,915    | 23,487    | 49,453    | 4,206,269   |
| Receipts—Water.....                | 62,210,455  | 3,844,460 | 2,311,265 | 114,998   | 474,864   | 68,956,042  |
| Rail.....                          | 71,992      | 16,595    | 10,675    | —         | 3,050     | 102,312     |
| Totals handled.....                | 66,157,368  | 4,067,548 | 2,373,855 | 138,485   | 527,367   | 73,264,623  |
| Shipments—Water.....               | 51,811,901  | 2,414,334 | 1,346,050 | 70,563    | 224,631   | 55,867,479  |
| Rail.....                          | 10,287,248  | 1,515,254 | 845,728   | 67,922    | 251,175   | 12,967,327  |
| Total shipments.....               | 62,099,149  | 3,929,588 | 2,191,778 | 138,485   | 475,806   | 68,834,806  |
| In store, July 31, 1933.....       | 4,058,212   | 137,958   | 182,077   | —         | 51,557    | 4,425,804   |
| St. Lawrence Ports—                |             |           |           |           |           |             |
| On hand, Aug. 1, 1932.....         | 8,720,508   | 538,234   | 224,885   | —         | 1,422,518 | 10,906,145  |
| Receipts—Water.....                | 95,181,215  | 6,877,108 | 3,987,528 | 661,139   | 1,036,222 | 107,753,210 |
| Rail.....                          | 8,962,746   | 499,316   | 259,588   | —         | 106,342   | 9,827,992   |
| Totals handled.....                | 112,864,469 | 7,914,658 | 4,481,999 | 661,139   | 2,565,082 | 128,487,347 |
| Shipments—Water.....               | 92,809,349  | 5,005,915 | 3,401,327 | 67,890    | 1,693,581 | 102,978,062 |
| Rail.....                          | 8,302,057   | 2,397,754 | 579,329   | 593,249   | 170,676   | 12,043,065  |
| Total shipments.....               | 101,111,406 | 7,403,669 | 3,980,656 | 661,139   | 1,864,257 | 115,021,127 |
| In store, July 31, 1933.....       | 11,753,062  | 510,990   | 501,343   | —         | 700,825   | 13,466,220  |
| Seaboard Ports—                    |             |           |           |           |           |             |
| On hand, Aug. 1, 1932.....         | —           | 30,177    | 18        | —         | —         | 30,195      |
| Receipts—Water.....                | 656,899     | 143,665   | 59,743    | —         | —         | 860,307     |
| Rail.....                          | 9,180,813   | 77,006    | 111,129   | —         | 262,447   | 9,631,395   |
| Totals handled.....                | 9,837,712   | 250,848   | 170,890   | —         | 262,447   | 10,521,897  |
| Shipments—Water.....               | 8,530,782   | 77,006    | 98,632    | —         | 77,539    | 8,783,959   |
| Rail.....                          | 31,157      | 124,359   | 10,958    | —         | —         | 166,474     |
| Total shipments.....               | 8,561,939   | 201,365   | 109,590   | —         | 77,539    | 8,950,433   |
| In store, July 31, 1933.....       | 1,275,772   | 49,482    | 61,300    | —         | 184,908   | 1,571,464   |

**9.—Approximate Average Handling and Freight (c.i.f.) Charges Between the Producer in Western Canada and British Ports, per Bushel of Wheat Exported via Montreal-Sorel-Quebec, calendar year 1934.**

| Item.                                                                                                                                                                                                                                        | Per bush. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|                                                                                                                                                                                                                                              | cts.      |
| 1. Handling at country elevator, (including insurance against loss by fire and storage for 15 days); official inward inspection, weighing and registration fees; and selling to exporter on Winnipeg market.....                             | 3.75      |
| 2. Railway freight rate from average western point shipping to Fort William-Port Arthur terminal elevators.....                                                                                                                              | 13.50     |
| 3. Handling at terminal elevator, (including insurance against loss by fire or explosion and storage for 15 days); official outward inspection, weighing and registration fees; and loading into vessel.....                                 | 1.50      |
| 4. Lake freight, Fort William-Port Arthur to Montreal-Sorel-Quebec, (including costs of trimming cargo, brokerage, lake and out-turn insurance, and any charges incurred for transfer of cargoes from upper lake to canal-size vessels)..... | 6.40      |
| 5. Approximate average cost of freight and insurance (marine and out-turn), between Montreal-Sorel-Quebec and British ports, calendar year 1934, (including fobbing charges at Montreal-Sorel-Quebec).....                                   | 6.35      |
| Total approximate cost between producer and c.i.f. British ports, per bushel of wheat.....                                                                                                                                                   | 31.50     |

**10.—Approximate Average Handling and Freight (c.i.f.) Charges Between the Producer in Western Canada and British Ports, per Bushel of Wheat Exported via Vancouver-New Westminster, calendar year 1934.**

| Item.                                                                                                                                                                                                        | Per bush. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|                                                                                                                                                                                                              | cts.      |
| 1. Handling at country elevator (including insurance against loss by fire and storage for 15 days); official inward inspection, weighing and registration fees; and selling on Vancouver market.....         | 3.75      |
| 2. Railway freight rate from average western point shipping via Vancouver-New Westminster terminal elevators.....                                                                                            | 13.50     |
| 3. Handling at terminal elevator, (including insurance against loss by fire or explosion and storage for 15 days); official outward inspection, weighing and registration fees; and loading into vessel..... | 1.50      |
| 4. Approximate average cost of freight and insurance (marine and out-turn) between Vancouver and British ports, calendar year 1934, (including fobbing charges at Vancouver).....                            | 11.75     |
| Total approximate cost between producer and c.i.f. British ports, per bushel of wheat.....                                                                                                                   | 30.50     |

**Flour-Milling in 1933.**—The flour and grist mills industry in Canada in 1933 showed an increase of 38 mills over 1932, but their capacity was reduced by 15,253 barrels of flour a day from the 1932 figure. Their capital investment was \$59,054,505. The mills were distributed by provinces as shown in Table 11. Statistics of the employees, value of products, etc., for both flour and feed mills, for the latest year available will be found in Table 7 of the chapter on manufactures, p. 462 of this volume.

## 11.—Flour Mills of Canada, with Their Equipment and Capacities, 1932 and 1933.

| Province.                 | Flour<br>and<br>Grist<br>Mills. | Chopping<br>Mills. | Total<br>Mills. | Rolls.       | Stones.    | Capacity<br>of<br>Flour<br>Mills. |
|---------------------------|---------------------------------|--------------------|-----------------|--------------|------------|-----------------------------------|
|                           | No.                             | No.                | No.             | pairs.       | pairs.     | brl. per day.                     |
| 1932.                     |                                 |                    |                 |              |            |                                   |
| Prince Edward Island..... | 13                              | 2                  | 15              | 62           | 12         | 629                               |
| Nova Scotia.....          | 6                               | 11                 | 17              | 18           | 5          | 168                               |
| New Brunswick.....        | 10                              | 22                 | 32              | 76           | 2          | 556                               |
| Quebec.....               | 89                              | 270                | 359             | 555          | 171        | 22,406                            |
| Ontario.....              | 139                             | 535                | 674             | 2,106        | 51         | 55,842                            |
| Manitoba.....             | 28                              | 11                 | 39              | 529          | 12         | 11,360                            |
| Saskatchewan.....         | 55                              | 14                 | 69              | 587          | 15         | 13,918                            |
| Alberta.....              | 48                              | 31                 | 79              | 734          | 3          | 14,513                            |
| British Columbia.....     | 6                               | —                  | 6               | 73           | 6          | 1,394                             |
| <b>Totals.....</b>        | <b>394</b>                      | <b>896</b>         | <b>1,290</b>    | <b>4,740</b> | <b>277</b> | <b>120,786</b>                    |
| 1933.                     |                                 |                    |                 |              |            |                                   |
| Prince Edward Island..... | 10                              | 2                  | 12              | 55           | 12         | 457                               |
| Nova Scotia.....          | 3                               | 12                 | 15              | 13           | —          | 98                                |
| New Brunswick.....        | 10                              | 23                 | 33              | 72           | 4          | 501                               |
| Quebec.....               | 107                             | 269                | 376             | 563          | 196        | 12,877                            |
| Ontario.....              | 139                             | 551                | 690             | 2,055        | 46         | 52,651                            |
| Manitoba.....             | 32                              | 10                 | 42              | 550          | 10         | 11,550                            |
| Saskatchewan.....         | 57                              | 16                 | 73              | 592          | 15         | 13,950                            |
| Alberta.....              | 49                              | 32                 | 81              | 666          | 3          | 12,684                            |
| British Columbia.....     | 6                               | 1                  | 6               | 48           | 1          | 765                               |
| <b>Totals.....</b>        | <b>413</b>                      | <b>915</b>         | <b>1,328</b>    | <b>4,614</b> | <b>287</b> | <b>105,533</b>                    |

<sup>1</sup>Two chopping mills included with flour mills.

## Section 3.—Marketing of Live Stock and Animal Products.\*

The estimated value of farm live stock and poultry in Canada in 1933 was \$436,591,000, or 103·4 p.c. of the value of field crops grown during the year. In 1932 the value of farm live stock and poultry was \$409,860,000 or 98·4 p.c. of the value of field crops during that year. In gross value of product the slaughtering and meat-packing industry, which is dependent chiefly on animal husbandry for its materials, has during recent years been one of the most important single manufacturing industries in Canada.

The Canada Year Book, 1922-23, contained on pages 594-595 a brief historical description of the development and present position of the live-stock industry in the Dominion, with statistics of farm animals compiled from the decennial censuses, 1871 to 1921. A summary of this data, with the addition of figures for 1931, is given in Table 12.

\*Revised by Dr. T. W. Grindley, Chief, Agricultural Branch, Dominion Bureau of Statistics. For more detailed information on this subject see "Live Stock and Animal Products Statistics", published annually by the Dominion Bureau of Statistics, also "Live Stock Market and Meat Trade Review", published annually by the Live Stock Branch of the Dominion Department of Agriculture. See also the material in Chapter VIII under the heading "Farm Live Stock and Poultry".



**12.—Animals in Canada and Animals Killed or Sold by Farmers in Canada, by census years, 1871-1931.**

| Year.                   | Animals in Canada.   |           |           | Animals Killed or Sold and Wool Sold. |                        |                        |            |
|-------------------------|----------------------|-----------|-----------|---------------------------------------|------------------------|------------------------|------------|
|                         | Cattle. <sup>1</sup> | Sheep.    | Swine.    | Cattle. <sup>1</sup>                  | Sheep.                 | Swine.                 | Wool.      |
|                         | No.                  | No.       | No.       | No.                                   | No.                    | No.                    | lb.        |
| 1871.....               | 2,484,655            | 3,155,509 | 1,366,083 | 507,725                               | 1,557,430              | 1,216,097              | 11,103,480 |
| 1881.....               | 3,382,396            | 3,048,678 | 1,207,619 | 657,681                               | 1,496,465              | 1,302,503              | 11,300,736 |
| 1891.....               | 3,997,023            | 2,563,781 | 1,733,850 | 957,737                               | 1,464,172              | 1,791,104              | 10,031,970 |
| 1901.....               | 5,576,451            | 2,510,239 | 2,353,828 | 1,086,353                             | 1,329,141              | 2,497,636              | 10,657,597 |
| 1911 <sup>2</sup> ..... | 6,526,083            | 2,174,300 | 3,634,778 | 1,752,792 <sup>3</sup>                | 949,039 <sup>3</sup>   | 2,771,755 <sup>3</sup> | 6,933,955  |
| 1921 <sup>3</sup> ..... | 8,519,484            | 3,203,966 | 3,404,730 | 1,616,626 <sup>3</sup>                | 1,027,969 <sup>3</sup> | 1,779,257 <sup>3</sup> | 11,338,268 |
| 1931 <sup>3</sup> ..... | 7,990,947            | 3,608,540 | 4,716,761 | 2,046,428                             | 1,295,158              | 3,770,524              | 12,795,634 |

<sup>1</sup>Figures for 1871-91 do not include work oxen.

<sup>2</sup>Census taken as of June 1, while previous censuses were taken in April, so that the proportion of young animals is greater than for years previous to 1911.

<sup>3</sup>Animals slaughtered on farms were not included. The following figures are comparable with data given for the previous years (the 1911 amounts being partly estimated):—

|           | Cattle.   | Sheep.    | Swine.    |
|-----------|-----------|-----------|-----------|
| 1911..... | 1,915,059 | 1,097,015 | 4,282,624 |
| 1921..... | 2,097,390 | 1,217,987 | 2,972,331 |

In Table 13 statistics are given showing the numbers of animals on farms for the years 1921 to 1934, expressed as percentages of the average numbers for the quinquennium 1921-25.

**13.—Index Numbers of Animals on Farms in Canada, calendar years 1921-34.**

(Average number for 1921-25=100.)

| Year.     | Animals on Farms. |                   |               |        |        |
|-----------|-------------------|-------------------|---------------|--------|--------|
|           | Horses.           | Milch Cows.       | Other Cattle. | Sheep. | Swine. |
| 1921..... | 105.1             | 99.9              | 110.6         | 121.4  | 88.9   |
| 1922..... | 100.6             | 100.2             | 102.2         | 107.8  | 90.3   |
| 1923..... | 97.3              | 97.8              | 95.5          | 91.0   | 101.6  |
| 1924..... | 98.9              | 99.7              | 98.0          | 88.7   | 117.0  |
| 1925..... | 98.0              | 102.5             | 93.7          | 91.0   | 102.1  |
| 1926..... | 93.7              | 102.7             | 80.9          | 103.8  | 100.6  |
| 1927..... | 94.3              | 103.8             | 90.1          | 107.8  | 103.3  |
| 1928..... | 93.1              | 101.1             | 85.3          | 112.9  | 103.8  |
| 1929..... | 93.1              | 98.5              | 87.9          | 120.1  | 101.1  |
| 1930..... | 90.8              | 98.5              | 89.8          | 122.1  | 92.3   |
| 1931..... | 86.3              | 91.0 <sup>1</sup> | 79.1          | 119.2  | 108.8  |
| 1932..... | 85.3 <sup>1</sup> | 96.9              | 83.6          | 120.4  | 107.0  |
| 1933..... | 82.3              | 98.8              | 88.6          | 111.9  | 87.7   |
| 1934..... | 80.9              | 103.3             | 87.0          | 113.0  | 84.3   |

<sup>1</sup>Figures revised since the publication of the 1933 Year Book.

**Live-Stock Marketings, 1933.**—The numbers of cattle and calves and sheep and lambs sold at stockyards showed increases in 1933 as compared with 1932. Cattle sold numbered 604,337 in 1933 and 569,633 in 1932, calves 317,334 and 300,176 and sheep and lambs 471,566 and 465,034, respectively. The total number of hogs sold in 1933 was 1,047,941, as compared with 1,212,821 in 1932. Two new stock yards figured in the 1933 receipts, *viz.*, Saskatoon Pool and Regina, and a few sales by live-stock brokers at North Battleford are also included in the totals for the year.

Table 14 shows the receipts for sale at the various stockyards and a partial disposition of the live stock sold in 1932 and 1933.

**14.—Total Receipts of Live Stock and Disposition of Slaughter and Store Stock at Principal Markets in Canada, calendar years 1932 and 1933.**

| Market and Classification.            | 1932.   |         |         |                  | 1933.   |         |         |                  |
|---------------------------------------|---------|---------|---------|------------------|---------|---------|---------|------------------|
|                                       | Cattle. | Calves. | Hogs.   | Sheep and Lambs. | Cattle. | Calves. | Hogs.   | Sheep and Lambs. |
|                                       | No.     | No.     | No.     | No.              | No.     | No.     | No.     | No.              |
| <b>Toronto—</b>                       |         |         |         |                  |         |         |         |                  |
| Receipts (total).....                 | 269,421 | 98,955  | 223,355 | 199,615          | 274,727 | 98,511  | 233,481 | 196,626          |
| Shipments—                            |         |         |         |                  |         |         |         |                  |
| 1. Slaughter Stock to Packers.        | 179,022 | 54,661  | 199,703 | 159,882          | 193,924 | 64,080  | 214,997 | 166,655          |
| 2. Slaughter Stock to Butchers.       | 26,745  | 32,493  | 19,494  | 32,792           | 24,794  | 28,700  | 15,118  | 25,265           |
| 3. Store Stock to Country Points..... | 57,669  | 8,736   | —       | —                | 41,629  | 5,854   | —       | —                |
| <b>Montreal (Pt. St. Charles)—</b>    |         |         |         |                  |         |         |         |                  |
| Receipts (total).....                 | 55,949  | 108,665 | 253,518 | 121,185          | 61,374  | 114,350 | 204,648 | 128,503          |
| Shipments—                            |         |         |         |                  |         |         |         |                  |
| 1. Slaughter Stock to Packers.        | 40,756  | 46,119  | 200,947 | 89,518           | 38,989  | 54,739  | 129,989 | 96,880           |
| 2. Slaughter Stock to Butchers.       | 18,322  | 60,789  | 119,549 | 29,340           | 20,597  | 58,452  | 82,672  | 31,704           |
| 3. Store Stock to Country Points..... | 101     | 235     | —       | —                | —       | —       | —       | —                |
| <b>Montreal (East End)—</b>           |         |         |         |                  |         |         |         |                  |
| Receipts (total).....                 | 14,861  | 30,537  | 25,354  | 12,777           | 10,230  | 32,959  | 19,339  | 13,125           |
| Shipments—                            |         |         |         |                  |         |         |         |                  |
| 1. Slaughter Stock to Packers.        | 2,396   | 2,428   | 4,652   | 968              | 871     | 1,725   | 2,357   | 567              |
| 2. Slaughter Stock to Butchers.       | 12,446  | 28,109  | 20,612  | 12,019           | 9,239   | 30,419  | 16,813  | 12,333           |
| 3. Store Stock to Country Points..... | —       | —       | —       | —                | —       | —       | —       | —                |
| <b>Winnipeg—</b>                      |         |         |         |                  |         |         |         |                  |
| Receipts (total).....                 | 145,655 | 42,000  | 325,413 | 63,481           | 162,731 | 48,115  | 265,254 | 78,328           |
| Shipments—                            |         |         |         |                  |         |         |         |                  |
| 1. Slaughter Stock to Packers.        | 92,232  | 32,856  | 246,057 | 59,267           | 108,209 | 33,675  | 196,501 | 73,973           |
| 2. Slaughter Stock to Butchers.       | 4,192   | 1,608   | 2,013   | 360              | 12,731  | 6,277   | 6,400   | 1,069            |
| 3. Store Stock to Country Points..... | 22,031  | 2,194   | —       | —                | 17,849  | 2,001   | —       | —                |
| <b>Calgary—</b>                       |         |         |         |                  |         |         |         |                  |
| Receipts (total).....                 | 32,561  | 6,774   | 101,641 | 18,510           | 38,589  | 6,142   | 89,952  | 16,971           |
| Shipments—                            |         |         |         |                  |         |         |         |                  |
| 1. Slaughter Stock to Packers.        | 27,058  | 1       | 90,672  | 14,699           | 29,578  | 1       | 79,614  | 14,453           |
| 2. Slaughter Stock to Butchers.       | 3,483   | 1       | 1,672   | 935              | 4,179   | 1       | 1,176   | 539              |
| 3. Store Stock to Country Points..... | 8,141   | —       | —       | —                | 10,805  | —       | —       | —                |
| <b>Edmonton—</b>                      |         |         |         |                  |         |         |         |                  |
| Receipts (total).....                 | 27,547  | 6,513   | 117,730 | 16,481           | 27,522  | 6,556   | 91,177  | 13,222           |
| Shipments—                            |         |         |         |                  |         |         |         |                  |
| 1. Slaughter Stock to Packers.        | 17,619  | 4,507   | 77,806  | 13,916           | 17,303  | 5,314   | 55,352  | 10,064           |
| 2. Slaughter Stock to Butchers.       | 799     | 637     | 3,028   | 701              | 1,745   | 856     | 4,371   | 1,690            |
| 3. Store Stock to Country Points..... | 8,626   | 947     | —       | —                | 6,095   | 1,009   | —       | —                |
| <b>Prince Albert—</b>                 |         |         |         |                  |         |         |         |                  |
| Receipts (total).....                 | 2,652   | 428     | 29,337  | 672              | 1,775   | 329     | 20,855  | 1,015            |
| Shipments—                            |         |         |         |                  |         |         |         |                  |
| 1. Slaughter Stock to Packers.        | 847     | 231     | 27,628  | 576              | 663     | 240     | 19,345  | 879              |
| 2. Slaughter Stock to Butchers.       | 152     | 56      | 282     | 8                | 119     | 33      | 166     | 37               |
| 3. Store Stock to Country Points..... | 845     | 118     | —       | —                | 514     | 48      | —       | —                |
| <b>Moose Jaw—</b>                     |         |         |         |                  |         |         |         |                  |
| Receipts (total).....                 | 10,271  | 2,447   | 26,307  | 26,884           | 11,768  | 3,966   | 26,558  | 14,062           |
| Shipments—                            |         |         |         |                  |         |         |         |                  |
| 1. Slaughter Stock to Packers.        | 7,223   | 1,327   | 22,812  | 14,837           | 9,294   | 2,206   | 23,714  | 8,807            |
| 2. Slaughter Stock to Butchers.       | 99      | 58      | 95      | 12               | 28      | 23      | 7       | 43               |
| 3. Store Stock to Country Points..... | 2,592   | 995     | —       | —                | 1,919   | 1,574   | —       | —                |
| <b>Saskatoon—</b>                     |         |         |         |                  |         |         |         |                  |
| Receipts (total).....                 | 10,716  | 3,857   | 110,166 | 5,429            | 10,623  | 4,406   | 79,276  | 5,979            |
| Shipments—                            |         |         |         |                  |         |         |         |                  |
| 1. Slaughter Stock to Packers.        | 4,618   | 2,436   | 100,969 | 3,846            | 6,314   | 2,805   | 67,072  | 4,389            |
| 2. Slaughter Stock to Butchers.       | 1,834   | 1,160   | 2,676   | 824              | 1,941   | 1,215   | 1,867   | 889              |
| 3. Store Stock to Country Points..... | 2,899   | 119     | —       | —                | 1,518   | 151     | —       | —                |
| <b>Regina—</b>                        |         |         |         |                  |         |         |         |                  |
| Receipts (total).....                 | —       | —       | —       | —                | 4,738   | 1,974   | 13,656  | 3,520            |
| Shipments—                            |         |         |         |                  |         |         |         |                  |
| 1. Slaughter Stock to Packers.        | —       | —       | —       | —                | 1,193   | 693     | 4,753   | 1,631            |
| 2. Slaughter Stock to Butchers.       | —       | —       | —       | —                | 2,110   | 940     | 3,276   | 875              |
| 3. Store Stock to Country Points..... | —       | —       | —       | —                | 294     | 56      | —       | —                |

<sup>1</sup>Included with cattle.<sup>2</sup>Market opened in 1933.

The interprovincial and export movement of live stock in 1933 shows increases in all classes except hogs. Total shipments in 1933 with comparative figures for 1932 in parentheses were as follows: cattle 322,097 (261,915); calves 97,070 (91,165); swine 1,038,576 (1,121,760); and sheep 186,702 (153,259). For both years Alberta was the largest shipper in the aggregate and also the largest shipper of hogs and sheep. Saskatchewan led in cattle shipments and Ontario in shipments of calves.

The marketings of live stock through stockyards, by direct shipment to packers, or by export according to provinces of origin for the calendar year 1933 are given in Table 15. In Table 16 are given the statistics of the grading of animals from several provinces marketed through the stockyards in 1933.

**15.—Live Stock from Several Provinces of Canada, Marketed through Stockyards, Packers, etc., calendar year 1933.**

| Live Stock.                 | Maritime<br>Provinces. | Quebec.        | Ontario.         | Manitoba.      | Saskat-<br>chewan. | Alberta.         | Total.           |
|-----------------------------|------------------------|----------------|------------------|----------------|--------------------|------------------|------------------|
|                             | No.                    | No.            | No.              | No.            | No.                | No.              | No.              |
| Cattle—                     |                        |                |                  |                |                    |                  |                  |
| Totals to stockyards.....   | 71                     | 24,614         | 289,167          | 77,398         | 111,824            | 85,042           | 588,116          |
| Direct to packers.....      | —                      | 7,598          | 40,982           | 8,266          | 6,807              | 37,713           | 101,366          |
| Direct for export.....      | 1,194                  | 2,638          | 32,330           | 701            | 4,927              | 11,517           | 53,307           |
| <b>Totals, Cattle.....</b>  | <b>1,265</b>           | <b>34,850</b>  | <b>362,479</b>   | <b>86,365</b>  | <b>123,558</b>     | <b>134,272</b>   | <b>742,789</b>   |
| Calves—                     |                        |                |                  |                |                    |                  |                  |
| Totals to stockyards.....   | 540                    | 89,429         | 149,963          | 27,502         | 30,092             | 13,703           | 311,229          |
| Direct to packers.....      | —                      | 10,630         | 36,352           | 6,552          | 1,237              | 21,492           | 76,263           |
| Direct for export.....      | 45                     | 27             | 273              | —              | —                  | 1                | 346              |
| <b>Totals, Calves.....</b>  | <b>585</b>             | <b>100,086</b> | <b>186,588</b>   | <b>34,054</b>  | <b>31,329</b>      | <b>35,196</b>    | <b>387,838</b>   |
| Hogs—                       |                        |                |                  |                |                    |                  |                  |
| Totals to stock yards.....  | 570                    | 44,270         | 375,447          | 122,175        | 285,754            | 344,321          | 1,172,537        |
| Direct to packers.....      | 15,296                 | 21,498         | 981,492          | 122,202        | 204,545            | 687,848          | 2,032,881        |
| Direct for export.....      | 6                      | —              | 1                | —              | —                  | —                | 7                |
| <b>Totals, Hogs.....</b>    | <b>15,872</b>          | <b>65,768</b>  | <b>1,356,940</b> | <b>244,377</b> | <b>490,299</b>     | <b>1,032,169</b> | <b>3,205,425</b> |
| Sheep—                      |                        |                |                  |                |                    |                  |                  |
| Totals to stockyards.....   | 4,943                  | 124,218        | 184,343          | 40,643         | 54,216             | 68,566           | 476,929          |
| Direct to packers.....      | —                      | 21,210         | 56,716           | 21,158         | 10,947             | 90,513           | 200,544          |
| Direct for export.....      | 4                      | 2              | 943              | —              | 4                  | 140              | 1,093            |
| <b>Totals, Sheep.....</b>   | <b>4,947</b>           | <b>145,430</b> | <b>242,002</b>   | <b>61,801</b>  | <b>65,167</b>      | <b>159,219</b>   | <b>678,566</b>   |
| Store cattle purchased..... | 155                    | 1,150          | 60,566           | 6,998          | 5,190              | 16,583           | 90,642           |

**16.—Grading of the Live Stock from Several Provinces of Canada, Marketed at the Stockyards, calendar year 1933.**

| Live Stock and Grade.   | Maritime<br>Provinces. | Quebec. | Ontario. | Manitoba. | Saskat-<br>chewan. | Alberta. | Total. |
|-------------------------|------------------------|---------|----------|-----------|--------------------|----------|--------|
|                         | No.                    | No.     | No.      | No.       | No.                | No.      | No.    |
| 1. Cattle—              |                        |         |          |           |                    |          |        |
| Steers up to 1,050 lb.— |                        |         |          |           |                    |          |        |
| Good and choice.....    | —                      | 61      | 15,379   | 5,597     | 7,806              | 8,514    | 37,357 |
| Medium.....             | 4                      | 666     | 29,819   | 8,500     | 13,884             | 8,488    | 61,361 |
| Common.....             | 20                     | 2,889   | 15,894   | 8,260     | 11,698             | 7,590    | 46,351 |
| Steers over 1,050 lb.—  |                        |         |          |           |                    |          |        |
| Good and choice.....    | —                      | 485     | 25,202   | 3,507     | 8,053              | 8,510    | 45,757 |
| Medium.....             | 10                     | 1,131   | 30,203   | 5,569     | 10,981             | 8,231    | 56,125 |
| Common.....             | 25                     | 658     | 3,975    | 1,603     | 3,423              | 4,590    | 14,274 |
| Heifers—                |                        |         |          |           |                    |          |        |
| Good and choice.....    | 4                      | 120     | 14,819   | 3,164     | 5,322              | 3,553    | 26,982 |
| Medium.....             | 2                      | 327     | 28,078   | 5,842     | 8,428              | 3,600    | 46,277 |
| Common.....             | 3                      | 1,224   | 10,378   | 3,579     | 4,461              | 1,693    | 21,338 |
| Fed Calves—             |                        |         |          |           |                    |          |        |
| Good and choice.....    | —                      | 37      | 8,156    | 2,230     | 2,992              | 2,718    | 16,133 |
| Medium.....             | —                      | 23      | 14,993   | 2,294     | 3,655              | 2,763    | 23,728 |

**16.—Grading of the Live Stock from Several Provinces of Canada, Marketed at the Stockyards, calendar year 1933—concluded.**

| Live Stock and Grade              | Maritime<br>Provinces. | Quebec.        | Ontario.       | Manitoba.      | Saskat-<br>chewan. | Alberta.       | Total.           |
|-----------------------------------|------------------------|----------------|----------------|----------------|--------------------|----------------|------------------|
|                                   | No.                    | No.            | No.            | No.            | No.                | No.            | No.              |
| <b>Cows—</b>                      |                        |                |                |                |                    |                |                  |
| Good and choice.....              | 1                      | 792            | 13,621         | 2,327          | 3,407              | 3,911          | 24,059           |
| Medium.....                       | 1                      | 2,441          | 13,865         | 5,710          | 4,198              | 1,359          | 27,574           |
| Common.....                       | 1                      | 3,366          | 13,295         | 2,829          | 1,728              | 1,043          | 22,262           |
| Canners and Cutters.....          | —                      | 4,900          | 14,977         | 1,928          | 1,035              | 941            | 23,781           |
| <b>Bulls—</b>                     |                        |                |                |                |                    |                |                  |
| Good.....                         | —                      | 173            | 3,378          | 514            | 662                | 352            | 5,079            |
| Common.....                       | —                      | 3,241          | 7,882          | 987            | 734                | 646            | 13,490           |
| <b>Stocker and Feeder Steers—</b> |                        |                |                |                |                    |                |                  |
| Good.....                         | —                      | 79             | 5,121          | 3,444          | 6,366              | 6,374          | 21,384           |
| Common.....                       | —                      | 782            | 15,361         | 6,215          | 7,038              | 5,865          | 35,261           |
| <b>Stock Cows and Heifers—</b>    |                        |                |                |                |                    |                |                  |
| Good.....                         | —                      | —              | 17             | 787            | 1,487              | 1,916          | 4,207            |
| Common.....                       | —                      | —              | 10             | 1,537          | 1,541              | 1,054          | 4,151            |
| Milkers and Springers.....        | —                      | 1,197          | 4,037          | 756            | 230                | 164            | 6,384            |
| Unclassified.....                 | —                      | 22             | 698            | 219            | 2,695              | 1,167          | 4,801            |
| <b>Totals.....</b>                | <b>71</b>              | <b>24,614</b>  | <b>289,167</b> | <b>77,398</b>  | <b>111,824</b>     | <b>85,042</b>  | <b>588,116</b>   |
| <b>2. Calves—</b>                 |                        |                |                |                |                    |                |                  |
| <b>Veal—</b>                      |                        |                |                |                |                    |                |                  |
| Good and choice.....              | 8                      | 4,206          | 35,099         | 8,332          | 10,032             | 5,334          | 63,011           |
| Common and medium.....            | 36                     | 45,005         | 104,449        | 17,792         | 17,870             | 7,875          | 193,027          |
| Grass.....                        | 496                    | 40,218         | 10,415         | 1,378          | 2,190              | 494            | 55,191           |
| <b>Totals.....</b>                | <b>540</b>             | <b>89,429</b>  | <b>149,963</b> | <b>27,502</b>  | <b>30,092</b>      | <b>13,703</b>  | <b>311,229</b>   |
| <b>3. Hogs—</b>                   |                        |                |                |                |                    |                |                  |
| Select bacon.....                 | 22                     | 3,536          | 85,923         | 18,446         | 34,108             | 26,425         | 168,460          |
| Bacon.....                        | 121                    | 13,432         | 175,349        | 46,388         | 88,588             | 106,680        | 430,558          |
| Butchers.....                     | 179                    | 17,096         | 66,091         | 15,984         | 72,045             | 152,023        | 323,418          |
| Heavies.....                      | 23                     | 1,280          | 4,721          | 4,417          | 10,755             | 7,428          | 28,624           |
| Extra heavies.....                | 9                      | 508            | 1,513          | 2,220          | 5,403              | 2,068          | 11,721           |
| Lights and feeders.....           | 175                    | 7,359          | 31,003         | 28,941         | 61,238             | 37,597         | 166,313          |
| Sows No. 1.....                   | 1                      | 339            | 1,612          | 2,724          | 7,996              | 5,128          | 17,800           |
| Sows No. 2.....                   | 40                     | 605            | 8,148          | 2,648          | 4,686              | 6,356          | 22,483           |
| Roughs.....                       | —                      | 56             | 577            | 207            | 582                | 316            | 1,738            |
| Stags.....                        | —                      | 59             | 510            | 200            | 353                | 300            | 1,422            |
| <b>Totals.....</b>                | <b>570</b>             | <b>44,270</b>  | <b>375,447</b> | <b>122,175</b> | <b>285,754</b>     | <b>344,321</b> | <b>1,172,537</b> |
| <b>4. Lambs and Sheep—</b>        |                        |                |                |                |                    |                |                  |
| <b>Lambs—</b>                     |                        |                |                |                |                    |                |                  |
| Good handyweights.....            | 2,546                  | 66,614         | 130,642        | 25,913         | 25,990             | 42,065         | 293,770          |
| Good heavies.....                 | 90                     | 1,864          | 4,192          | 476            | 5,704              | 2,988          | 15,314           |
| Common, all weights.....          | 1,738                  | 35,222         | 27,375         | 11,210         | 11,270             | 8,220          | 95,035           |
| Bucks.....                        | 312                    | 12,011         | 4,321          | 98             | 151                | 976            | 17,869           |
| <b>Sheep—</b>                     |                        |                |                |                |                    |                |                  |
| Good heavies.....                 | 6                      | 504            | 2,011          | 91             | 2,989              | 650            | 6,251            |
| Good handyweights.....            | 56                     | 3,043          | 10,681         | 1,451          | 1,870              | 3,748          | 20,849           |
| Common.....                       | 195                    | 4,895          | 5,069          | 1,227          | 1,203              | 1,645          | 14,234           |
| Unclassified.....                 | —                      | 65             | 52             | 177            | 5,039              | 8,274          | 13,607           |
| <b>Totals.....</b>                | <b>4,943</b>           | <b>124,218</b> | <b>184,343</b> | <b>40,643</b>  | <b>54,216</b>      | <b>68,566</b>  | <b>476,929</b>   |

**Slaughtering and Meat Packing.** This industry has become one of the most important branches of manufacturing in Canada. Its growth, shown by the statistics of Table 17, has been accompanied by a concentration of the major part of the production of the industry into a comparatively small number of large establishments, thereby facilitating the utilization of by-products and greater efficiency of operation. In 1931, 1932 and 1933, the large increase in the number of establishments is due to the inclusion of wholesale butchers operating small plants engaged in slaughtering only. The addition of these small establishments does not affect



materially the value of production of the industry. The numbers of live stock slaughtereded at Canadian inspected establishments in 1932 and 1933 are shown in Table 18.

**17.—Principal Statistics of the Slaughtering and Meat-Packing Industry of Canada, decennially 1871-1921, annually 1928-33.**

| Description.              | 1871.     | 1881.     | 1891.     | 1901. <sup>1</sup> | 1911. <sup>1</sup> | 1921.       |
|---------------------------|-----------|-----------|-----------|--------------------|--------------------|-------------|
| Establishments.....No.    | 193       | 203       | 527       | 57                 | 80                 | 84          |
| Capital invested.....\$   | 419,325   | 1,449,677 | 2,173,077 | 5,395,162          | 15,321,088         | 58,459,555  |
| Employees.....No.         | 841       | 852       | 1,690     | 2,416              | 4,214              | 9,711       |
| Salaries and wages.....\$ | 145,376   | 209,483   | 503,053   | 1,020,164          | 2,685,518          | 13,547,778  |
| Cost of materials.....\$  | 2,942,781 | 3,163,576 | 5,554,246 | 19,520,058         | 40,951,761         | 113,389,855 |
| Value of products.....\$  | 3,799,552 | 4,084,133 | 7,125,831 | 22,217,984         | 48,527,076         | 153,136,289 |

| Description.              | 1928.       | 1929.       | 1930.       | 1931.       | 1932.      | 1933.      |
|---------------------------|-------------|-------------|-------------|-------------|------------|------------|
| Establishments.....No.    | 75          | 74          | 76          | 147         | 141        | 135        |
| Capital invested.....\$   | 66,198,507  | 67,777,803  | 60,778,996  | 62,481,905  | 53,227,929 | 54,590,398 |
| Employees.....No.         | 11,244      | 10,762      | 9,290       | 9,294       | 9,101      | 9,289      |
| Salaries and wages.....\$ | 14,242,362  | 13,998,716  | 12,114,667  | 11,626,678  | 10,349,315 | 10,103,744 |
| Cost of materials.....\$  | 142,396,342 | 151,814,517 | 129,004,327 | 91,276,842  | 65,575,957 | 70,467,544 |
| Value of products.....\$  | 174,096,419 | 185,842,902 | 164,029,953 | 117,596,697 | 91,246,523 | 92,366,137 |

<sup>1</sup> Figures for this year cover establishments employing five hands and over only..

**18.—Live Stock Slaughtered at Canadian Inspected Establishments, by months, 1932 and 1933.**

| Month.             | 1932.          |                |                |                  | 1933.          |                |                |                  |
|--------------------|----------------|----------------|----------------|------------------|----------------|----------------|----------------|------------------|
|                    | Cattle.        | Calves.        | Sheep.         | Hogs.            | Cattle.        | Calves.        | Sheep.         | Hogs.            |
|                    | No.            | No.            | No.            | No.              | No.            | No.            | No.            | No.              |
| January.....       | 47,875         | 17,305         | 48,272         | 263,785          | 50,521         | 20,255         | 48,576         | 247,081          |
| February.....      | 39,379         | 22,679         | 34,712         | 239,921          | 42,412         | 22,247         | 36,030         | 220,419          |
| March.....         | 44,505         | 43,253         | 37,105         | 232,875          | 50,959         | 38,379         | 41,658         | 250,468          |
| April.....         | 43,302         | 46,612         | 29,874         | 229,124          | 42,352         | 54,760         | 30,048         | 231,627          |
| May.....           | 44,156         | 51,240         | 23,204         | 254,836          | 55,032         | 60,547         | 30,115         | 278,906          |
| June.....          | 41,818         | 43,171         | 50,198         | 247,722          | 46,538         | 44,678         | 55,559         | 234,614          |
| July.....          | 41,228         | 32,252         | 64,009         | 191,577          | 49,242         | 38,893         | 71,758         | 191,464          |
| August.....        | 47,184         | 31,598         | 85,839         | 189,253          | 58,989         | 40,092         | 100,707        | 187,028          |
| September.....     | 52,174         | 29,450         | 101,155        | 166,352          | 64,566         | 36,177         | 147,619        | 195,498          |
| October.....       | 50,408         | 27,248         | 145,584        | 189,222          | 72,030         | 36,445         | 181,611        | 235,255          |
| November.....      | 56,038         | 23,722         | 118,882        | 249,858          | 72,957         | 27,031         | 84,191         | 277,318          |
| December.....      | 45,075         | 14,919         | 49,388         | 268,300          | 48,402         | 18,924         | 40,807         | 252,699          |
| <b>Totals.....</b> | <b>553,142</b> | <b>383,419</b> | <b>788,222</b> | <b>2,722,825</b> | <b>651,000</b> | <b>438,428</b> | <b>868,679</b> | <b>2,802,377</b> |

**Consumption of Animal Products.** —The consumption of meats in Canada in 1933 is estimated at 599,145,695 pounds of beef, 796,541,284 pounds of pork and 67,532,961 pounds of mutton and lamb. The per capita consumption of beef on this basis amounts to 56.09 pounds; pork, 74.58 pounds and mutton and lamb, 6.32 pounds, a total of 136.99 pounds of meats per capita per annum. The corresponding data for other animal products are as follows: butter, 320,821,718 pounds and 30.04 pounds; cheese, 35,255,660 pounds and 3.30 pounds; eggs, 229,146,612 dozen and 21.45 dozen, and poultry 114,144,900 pounds and 10.68 pounds. Details are given in Table 19.

**19.—Total and Per Capita Consumption of Meats and Live-Stock Products in Canada, calendar years 1929-33.**

| Item.                                                    | 1929.                     | 1930.                                          | 1931.                                          | 1932.                     | 1933.                     |
|----------------------------------------------------------|---------------------------|------------------------------------------------|------------------------------------------------|---------------------------|---------------------------|
| <b>Beef—</b>                                             |                           |                                                |                                                |                           |                           |
| Slaughtered in Canada.....No.                            | 1,953,399                 | 1,903,890                                      | 1,702,395                                      | 1,669,197                 | 1,715,424                 |
| Estimated dressed weight.....lb.                         | 693,456,645               | 675,880,950                                    | 604,350,225                                    | 592,564,935               | 608,975,520               |
| Imports of beef.....“                                    | 5,235,412                 | 3,631,176                                      | 393,933                                        | 411,322                   | 179,875                   |
| Exports of beef.....“                                    | 698,692,057               | 679,512,126                                    | 604,744,158                                    | 592,976,257               | 609,155,395               |
| Totals, consumption.....“                                | 31,230,800                | 8,086,600                                      | 3,756,700                                      | 4,466,400                 | 10,009,700                |
| Consumption per capita.....“                             | 667,461,257<br>66-57      | 671,425,526<br>65-77 <sup>2</sup>              | 600,987,458<br>57-92 <sup>2</sup>              | 588,509,857<br>56-02      | 599,145,695<br>56-09      |
| <b>Pork—</b>                                             |                           |                                                |                                                |                           |                           |
| Slaughtered in Canada.....No.                            | 5,747,117                 | 5,247,687                                      | 6,186,825                                      | 6,286,195                 | 5,813,799                 |
| Estimated dressed weight.....lb.                         | 816,090,188               | 745,171,554                                    | 878,529,150                                    | 942,929,250               | 872,069,850               |
| Imports of pork.....“                                    | 21,506,270                | 19,631,665                                     | 5,138,400                                      | 2,525,477                 | 3,774,034                 |
| Exports of pork.....“                                    | 837,596,458               | 764,803,219                                    | 883,667,550                                    | 945,454,727               | 875,843,884               |
| Totals, consumption.....“                                | 38,957,400                | 20,475,400                                     | 17,538,400                                     | 46,061,200                | 79,302,600                |
| Consumption per capita.....“                             | 798,639,058<br>79-65      | 744,327,819<br>72-92 <sup>2</sup>              | 866,129,150<br>83-47 <sup>2</sup>              | 899,393,527<br>85-61      | 796,541,284<br>74-58      |
| <b>Mutton and Lamb—</b>                                  |                           |                                                |                                                |                           |                           |
| Slaughtered in Canada.....No.                            | 1,625,508                 | 1,661,734                                      | 1,802,115                                      | 1,820,716                 | 1,691,072                 |
| Estimated dressed weight.....lb.                         | 65,020,320                | 66,469,360                                     | 72,084,600                                     | 72,828,640                | 67,642,880                |
| Imports of mutton and lamb.....“                         | 4,401,258                 | 4,411,771                                      | 1,293,672                                      | 701,816                   | 296,581                   |
| Exports of mutton and lamb.....“                         | 69,421,578<br>573,300     | 70,881,131<br>241,500                          | 73,378,272<br>332,700                          | 73,530,456<br>348,100     | 67,939,461<br>406,500     |
| Totals, consumption.....“                                | 68,848,278<br>6-87        | 70,639,631<br>6-92                             | 73,045,572<br>7-04                             | 73,182,356<br>6-97        | 67,532,961<br>6-32        |
| <b>Summary of Per Capita Consumption, All Meats—</b>     |                           |                                                |                                                |                           |                           |
| Beef.....lb.                                             | 66-57                     | 65-77 <sup>2</sup>                             | 57-92 <sup>2</sup>                             | 56-02                     | 56-09                     |
| Pork.....“                                               | 79-65                     | 72-92 <sup>2</sup>                             | 83-47 <sup>2</sup>                             | 85-61                     | 74-58                     |
| Mutton and lamb.....“                                    | 6-87                      | 6-92                                           | 7-04                                           | 6-97                      | 6-32                      |
| <b>Totals, Consumption of All Meats per capita.....“</b> | <b>153-09</b>             | <b>145-61<sup>2</sup></b>                      | <b>148-43<sup>2</sup></b>                      | <b>148-60</b>             | <b>136-99</b>             |
| <b>Butter—</b>                                           |                           |                                                |                                                |                           |                           |
| On hand, Jan. 1.....lb.                                  | 13,785,942                | 13,689,985                                     | 22,171,213                                     | 24,385,391                | 21,688,844                |
| Production—Creamery.....“                                | 170,810,230               | 185,751,061                                    | 225,955,246                                    | 214,002,127               | 219,232,546               |
| Home-made.....“                                          | 88,000,000                | 97,529,000                                     | 103,310,000                                    | 106,936,400               | 106,485,000               |
| Imports.....“                                            | 35,928,249                | 38,606,055                                     | 2,821,317                                      | 238,145                   | 1,377,137                 |
| Exports.....“                                            | 308,524,421<br>1,400,400  | 335,576,101 <sup>2</sup><br>1,180,400          | 354,257,776 <sup>2</sup><br>10,680,500         | 345,562,063<br>3,505,700  | 348,783,527<br>4,437,200  |
| On hand, Dec. 31.....“                                   | 307,124,021<br>13,689,985 | 334,395,701 <sup>2</sup><br>22,171,213         | 343,577,776 <sup>2</sup><br>24,385,391         | 342,056,363<br>21,688,844 | 344,346,327<br>22,026,655 |
| Totals, consumption.....“                                | 293,434,036<br>29-26      | 312,224,488 <sup>2</sup><br>30-59 <sup>2</sup> | 319,191,885 <sup>2</sup><br>30-76 <sup>2</sup> | 320,367,519<br>30-49      | 322,319,672<br>30-18      |
| <b>Cheese—</b>                                           |                           |                                                |                                                |                           |                           |
| On hand, Jan. 1.....lb.                                  | 18,464,126                | 12,076,024                                     | 16,529,556                                     | 11,680,573                | 13,279,857                |
| Production—Factory.....“                                 | 118,746,286               | 119,105,203                                    | 113,956,639                                    | 120,524,243               | 111,146,493               |
| Home-made.....“                                          | 490,000                   | 813,000 <sup>2</sup>                           | 901,300                                        | 1,027,100                 | 943,300                   |
| Imports.....“                                            | 2,103,724                 | 1,787,776                                      | 1,446,147                                      | 1,166,506                 | 967,613                   |
| Exports.....“                                            | 139,804,136<br>92,946,100 | 133,782,003 <sup>2</sup><br>80,163,700         | 132,833,642<br>84,788,400                      | 134,398,422<br>86,939,900 | 126,337,263<br>74,168,600 |
| On hand, Dec. 31.....“                                   | 46,858,036<br>12,076,024  | 53,618,303 <sup>2</sup><br>16,529,556          | 48,045,242<br>11,680,573                       | 47,458,522<br>13,279,857  | 52,168,663<br>15,973,921  |
| Totals, consumption.....“                                | 34,782,012<br>3-47        | 37,088,747 <sup>2</sup><br>3-63 <sup>2</sup>   | 36,364,669<br>3-50 <sup>2</sup>                | 34,178,665<br>3-25        | 36,194,742<br>3-39        |

<sup>1</sup>For estimates of population upon which per capita figures are calculated, see p. 164.

<sup>2</sup>Figures revised since the publication of the 1933 Year Book.

**19.—Total and Per Capita<sup>1</sup> Consumption of Meats and Live-Stock Products in Canada, calendar years 1929-33—concluded.**

| Item.                             | 1929.                    | 1930.                    | 1931.                    | 1932.       | 1933.       |
|-----------------------------------|--------------------------|--------------------------|--------------------------|-------------|-------------|
| <b>Eggs—</b>                      |                          |                          |                          |             |             |
| Production—Farm..... doz.         | 226,745,000              | 230,000,000 <sup>2</sup> | 237,131,000 <sup>2</sup> | 229,461,000 | 210,585,000 |
| Other..... “                      | 20,500,000 <sup>2</sup>  | 20,500,000 <sup>2</sup>  | 20,500,000 <sup>2</sup>  | 20,500,000  | 20,500,000  |
| Imports..... “                    | 1,086,664                | 4,080,560                | 148,166                  | 117,942     | 49,224      |
| Exports..... “                    | 248,331,664 <sup>2</sup> | 254,580,560 <sup>2</sup> | 257,779,166 <sup>2</sup> | 250,078,942 | 231,134,224 |
|                                   | 1,147,829                | 188,905                  | 634,140                  | 272,818     | 1,987,612   |
| Totals, consumption..... “        | 247,183,835 <sup>2</sup> | 254,391,655 <sup>2</sup> | 257,145,026 <sup>2</sup> | 249,806,124 | 229,146,612 |
| Consumption per capita..... “     | 24.65                    | 24.92                    | 24.78                    | 23.78       | 21.45       |
| <b>Poultry—</b>                   |                          |                          |                          |             |             |
| Poultry—On farms..... No.         | 59,932,963               | 60,795,000               | 65,468,000               | 64,080,200  | 64,324,400  |
| Elsewhere..... “                  | 7,082,000                | 7,082,000                | 5,675,000 <sup>2</sup>   | 5,675,000   | 5,675,000   |
| Totals..... “                     | 67,014,963               | 67,877,000               | 71,143,000 <sup>2</sup>  | 69,755,200  | 69,999,400  |
| Marketings..... “                 | 19,246,899               | 19,376,000               | 19,827,050 <sup>2</sup>  | 19,641,035  | 19,769,950  |
| Estimated dressed weight..... lb. | 113,105,085              | 113,607,350              | 113,899,950 <sup>2</sup> | 114,310,155 | 115,495,865 |
| Exports..... “                    | 4,431,849                | 1,307,080                | 1,040,903                | 1,898,699   | 1,350,965   |
| Totals, consumption..... “        | 108,673,236              | 112,300,270              | 112,859,047 <sup>2</sup> | 112,411,456 | 114,144,900 |
| Consumption per capita..... “     | 10.84                    | 11.00                    | 10.86 <sup>2</sup>       | 10.69       | 10.68       |

<sup>1</sup>For estimates of population upon which per capita figures are calculated, see p. 164.

<sup>2</sup>Figures revised since the publication of the 1933 Year Book.

**Interprovincial and International Trade in Meats.**—The shipments of meats and meat products out of each province to other provinces and for export are shown in Table 20. Manitoba was the largest shipper in the aggregate.

Information regarding this traffic may be found in greater detail at pp. 50-59 of the report on “Live Stock and Animal Products Statistics, 1933”, obtainable on application to the Dominion Bureau of Statistics.

**20.—Provincial Shipments of Meat Products, with Total Interprovincial and Export Shipments, calendar year 1932.**

| Province.                                 | Beef.             | Veal.            | Mutton<br>and<br>Lamb. | Pork,<br>Fresh.   | Pork,<br>Cured.   | Lard.             | Lard<br>Compound. | Total. <sup>1</sup> |
|-------------------------------------------|-------------------|------------------|------------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
|                                           | lb.               | lb.              | lb.                    | lb.               | lb.               | lb.               | lb.               | lb.                 |
| P. E. Island.....                         | —                 | 1,710            | 4,642                  | 8,712             | 91,190            | —                 | —                 | 108,821             |
| Nova Scotia.....                          | 201,739           | 8,715            | 3,804                  | 16,658            | 17,769            | —                 | 360               | 346,365             |
| New Brunswick.....                        | —                 | —                | —                      | 1,871             | 13,841            | —                 | —                 | 67,346              |
| Quebec.....                               | 7,271,832         | 1,048,736        | 739,018                | 2,656,240         | 12,199,750        | 705,073           | 888,300           | 36,364,345          |
| Ontario.....                              | 12,587,367        | 328,146          | 675,322                | 594,144           | 31,867,220        | 5,280,917         | 211,633           | 61,553,556          |
| Manitoba.....                             | 31,011,490        | 510,599          | 1,294,995              | 4,939,373         | 17,492,102        | 2,957,615         | 1,052,435         | 95,168,963          |
| Saskatchewan.....                         | 4,416,708         | 56,917           | 306,685                | 1,607,962         | 5,513,116         | 1,004,003         | —                 | 17,518,518          |
| Alberta.....                              | 6,430,954         | 1,349,249        | 778,901                | 7,157,800         | 17,918,704        | 4,584,745         | —                 | 48,546,242          |
| British Columbia.....                     | 258,609           | 6,082            | 10,388                 | 73,878            | 102,667           | 4,808             | 406               | 896,437             |
| <b>Canada.....</b>                        | <b>62,178,699</b> | <b>3,310,154</b> | <b>3,813,758</b>       | <b>17,056,638</b> | <b>85,216,359</b> | <b>14,537,161</b> | <b>2,153,134</b>  | <b>260,570,393</b>  |
| Totals, Interprovincial<br>shipments..... | 54,411,243        | 2,433,284        | 3,483,533              | 15,006,780        | 9,437,573         | 12,217,306        | 2,027,875         | 162,084,892         |
| Totals, Export ship-<br>ments.....        | 7,767,456         | 876,870          | 330,225                | 2,049,858         | 75,778,786        | 2,319,855         | 125,259           | 98,485,501          |

<sup>1</sup>Includes miscellaneous products not specified.

**Export and Import Trade in Live Stock and Live-Stock Products.**—The exports of live stock and live-stock products from the Dominion to the United Kingdom, the United States and all countries, are shown for the four fiscal years ended Mar. 31, 1931-34, in Table 12 of the chapter on External Trade, at pp. 566-572,

and imports in Table 13 at pp. 590-594. Exports and imports are also available by calendar years 1927-1933, and may be found at pp. 81, 83 and 84 of the report on "Live Stock and Animal Products Statistics, 1933". At pp. 75-95 of the report on "Trade of Canada (Imports for Consumption and Exports), Calendar Year 1933" figures are given of exports of "Animals and Animal Products" for 1932 and 1933 and imports of this class for the same calendar years will be found at pp. 198-220 of the same report.

### Section 4.—Cold Storage.

**Cold Storage Warehouses.**—Under the Cold Storage Act, 1907 (6-7 Edw. VII, c. 6), now consolidated as c. 25, R.S.C., 1927, subsidies have been granted by the Dominion Government towards the construction and equipment of cold storage warehouses open to the public, the Act and regulations made thereunder being administered by the Department of Agriculture. Table 21 shows for 1933 and 1934 the number of cold storage warehouses in Canada, with the refrigerated space.

#### 21.—Cold Storage Warehouses in Canada, by Provinces, 1933 and 1934.

NOTE. The figures in this table are supplied through the courtesy of J. F. Singleton, Dairy and Cold Storage Commissioner, Dominion Department of Agriculture.

| Province.                 | Subsidized Public Warehouses. |                      |                  |                  | Total Warehouses. |                      |
|---------------------------|-------------------------------|----------------------|------------------|------------------|-------------------|----------------------|
|                           | Num-ber.                      | Refriger-ated Space. | Cost.            | Total Subsidy.   | Num-ber.          | Refriger-ated Space. |
|                           |                               | cu. ft.              | \$               | \$               |                   | cu. ft.              |
| 1933.                     |                               |                      |                  |                  |                   |                      |
| Prince Edward Island..... | 2                             | 212,358              | 66,970           | 20,091           | 7                 | 276,662              |
| Nova Scotia.....          | 7                             | 2,161,197            | 2,644,672        | 793,402          | 23                | 2,821,906            |
| New Brunswick.....        | 2                             | 781,161              | 192,577          | 57,773           | 24                | 1,083,216            |
| Quebec.....               | 7                             | 317,474              | 315,787          | 94,736           | 90                | 11,500,186           |
| Ontario.....              | 26                            | 3,570,036            | 1,399,727        | 419,918          | 201               | 17,073,991           |
| Manitoba.....             | 1                             | 27,500               | 32,000           | 9,600            | 50                | 5,512,374            |
| Saskatchewan.....         | 4                             | 437,596              | 268,707          | 80,612           | 49                | 2,020,417            |
| Alberta.....              | 2                             | 351,059              | 242,000          | 72,600           | 30                | 4,263,418            |
| British Columbia.....     | 7                             | 2,491,644            | 1,793,974        | 538,192          | 79                | 8,507,640            |
| Yukon.....                | —                             | —                    | —                | —                | 1                 | 44,900               |
| <b>Totals.....</b>        | <b>58</b>                     | <b>10,350,025</b>    | <b>6,956,414</b> | <b>2,086,924</b> | <b>554</b>        | <b>53,104,710</b>    |
| 1934. <sup>1</sup>        |                               |                      |                  |                  |                   |                      |
| Prince Edward Island..... | 2                             | 212,358              | 66,970           | 20,091           | 7                 | 276,662              |
| Nova Scotia.....          | 10                            | 2,387,147            | 2,738,807        | 821,642          | 26                | 3,047,856            |
| New Brunswick.....        | 2                             | 781,161              | 192,577          | 57,773           | 24                | 1,083,216            |
| Quebec.....               | 8                             | 367,474              | 333,787          | 100,136          | 91                | 11,550,186           |
| Ontario.....              | 28                            | 3,892,706            | 1,820,452        | 546,136          | 203               | 17,396,661           |
| Manitoba.....             | 1                             | 27,500               | 32,000           | 9,600            | 50                | 5,512,374            |
| Saskatchewan.....         | 4                             | 437,596              | 268,707          | 80,612           | 49                | 2,020,417            |
| Alberta.....              | 2                             | 351,059              | 242,000          | 72,600           | 30                | 4,263,418            |
| British Columbia.....     | 9                             | 2,856,549            | 1,923,974        | 577,192          | 81                | 8,872,545            |
| Yukon.....                | —                             | —                    | —                | —                | 1                 | 44,900               |
| <b>Totals.....</b>        | <b>■</b>                      | <b>11,313,550</b>    | <b>7,619,274</b> | <b>2,285,782</b> | <b>562</b>        | <b>54,068,235</b>    |

<sup>1</sup>To October 31st.

**Cold Storage Stocks.**—Statistics of the stocks of food in the cold storage warehouses of Canada are collected and published monthly by the Agricultural Branch of the Dominion Bureau of Statistics. A summary of the cold storage data is included in the report on "Live Stock and Animal Products Statistics", published annually. In Table 22 are included statistics by months, for 1933 and 1934, of the stocks of food in cold storage and in process of cure for various important commodities.



## 22.—Stocks of Food on Hand in Cold Storage and in Process of Cure, by Months and Commodities, 1933 and 1934.

NOTE. —Figures in this table are of stocks on hand on the first of each month as published by the Agricultural Branch, Dominion Bureau of Statistics.

| Month.         | Eggs.      | Butter.    | Cheese.    | Beef.               |           |                     |           |
|----------------|------------|------------|------------|---------------------|-----------|---------------------|-----------|
|                |            |            |            | Fresh.              | Cured.    | In Process of Cure. |           |
|                | doz.       | lb.        | lb.        | lb.                 | lb.       | lb.                 |           |
| 1933.          |            |            |            |                     |           |                     |           |
| January.....   | 5,328,816  | 21,688,844 | 13,279,857 | 8,534,648           | 222,042   | 183,544             |           |
| February.....  | 4,612,107  | 16,555,315 | 11,649,769 | 9,294,287           | 228,906   | 113,791             |           |
| March.....     | 3,624,349  | 9,730,676  | 10,577,535 | 8,162,827           | 303,412   | 188,631             |           |
| April.....     | 3,654,357  | 3,541,511  | 8,524,814  | 8,353,451           | 156,189   | 173,115             |           |
| May.....       | 7,374,259  | 1,972,488  | 7,542,780  | 7,345,799           | 61,617    | 224,919             |           |
| June.....      | 15,076,474 | 5,393,674  | 8,356,711  | 7,546,718           | 328,659   | 185,630             |           |
| July.....      | 18,056,044 | 20,476,943 | 17,148,746 | 6,484,226           | 210,092   | 202,809             |           |
| August.....    | 18,414,517 | 34,710,067 | 25,498,088 | 7,139,126           | 357,522   | 234,532             |           |
| September..... | 18,838,892 | 42,418,605 | 33,009,493 | 8,608,839           | 308,211   | 160,499             |           |
| October.....   | 16,981,891 | 40,872,824 | 31,462,460 | 11,039,428          | 201,687   | 140,971             |           |
| November.....  | 12,252,452 | 37,948,121 | 27,426,187 | 14,059,852          | 214,493   | 137,881             |           |
| December.....  | 6,905,850  | 29,419,116 | 16,612,478 | 17,662,654          | 113,573   | 194,359             |           |
| 1934.          |            |            |            |                     |           |                     |           |
| January.....   | 3,587,926  | 22,026,655 | 15,973,921 | 14,477,743          | 228,712   | 189,761             |           |
| February.....  | 1,998,593  | 14,787,944 | 13,942,470 | 13,449,341          | 257,304   | 116,867             |           |
| March.....     | 1,372,198  | 7,462,885  | 12,351,874 | 11,413,039          | 204,343   | 98,484              |           |
| April.....     | 1,309,675  | 3,818,672  | 10,808,620 | 9,426,120           | 262,161   | 121,384             |           |
| May.....       | 4,555,812  | 2,523,038  | 9,853,572  | 8,553,557           | 191,591   | 108,522             |           |
| June.....      | 12,348,834 | 7,111,511  | 9,822,163  | 7,632,165           | 174,295   | 134,597             |           |
| July.....      | 16,189,718 | 24,997,051 | 17,459,568 | 7,815,481           | 170,139   | 137,965             |           |
| August.....    | 17,480,402 | 42,800,268 | 24,851,799 | 8,371,608           | 187,622   | 222,945             |           |
| September..... | 18,824,818 | 51,420,871 | 32,154,332 | 9,168,729           | 225,586   | 298,722             |           |
| October.....   | 18,380,746 | 53,899,534 | 34,166,037 | 13,158,752          | 239,510   | 193,573             |           |
| November.....  | 13,713,981 | 49,999,061 | 24,677,911 | 19,361,669          | 315,833   | 91,254              |           |
| December.....  | 8,710,727  | 42,028,830 | 17,886,343 | 23,912,802          | 202,032   | 159,617             |           |
| Month.         | Veal.      | Pork.      |            |                     | Lard.     | Mutton and Lamb.    | Poultry.  |
|                |            | Fresh.     | Cured.     | In Process of Cure. |           |                     |           |
|                | lb.        | lb.        | lb.        | lb.                 | lb.       | lb.                 |           |
| 1933.          |            |            |            |                     |           |                     |           |
| January.....   | 881,507    | 16,045,113 | 6,679,759  | 6,827,326           | 2,326,624 | 5,293,237           | 8,340,739 |
| February.....  | 581,614    | 17,917,593 | 5,548,589  | 7,884,170           | 2,653,790 | 4,009,264           | 7,229,732 |
| March.....     | 436,738    | 19,395,487 | 5,794,296  | 9,164,073           | 2,831,181 | 2,844,510           | 6,463,090 |
| April.....     | 617,195    | 17,596,784 | 6,664,115  | 10,633,337          | 2,526,802 | 2,171,906           | 5,271,911 |
| May.....       | 899,242    | 21,854,743 | 7,617,828  | 9,536,206           | 4,159,059 | 1,059,967           | 3,383,085 |
| June.....      | 1,211,225  | 21,973,442 | 7,197,110  | 11,018,655          | 5,595,629 | 796,461             | 3,241,140 |
| July.....      | 1,320,656  | 18,895,796 | 7,131,360  | 11,015,178          | 6,002,429 | 722,934             | 2,717,070 |
| August.....    | 1,383,221  | 15,494,577 | 6,166,187  | 10,885,228          | 5,570,559 | 824,959             | 2,595,935 |
| September..... | 1,462,445  | 11,422,718 | 5,294,221  | 9,895,153           | 4,477,895 | 1,038,205           | 2,326,545 |
| October.....   | 1,548,305  | 7,755,528  | 5,141,551  | 8,807,103           | 2,278,766 | 2,366,993           | 2,518,601 |
| November.....  | 1,732,766  | 6,578,105  | 4,978,129  | 8,554,766           | 1,943,341 | 6,544,309           | 2,801,883 |
| December.....  | 1,727,664  | 9,863,757  | 5,220,929  | 9,431,627           | 1,604,530 | 7,540,724           | 6,051,500 |
| 1934.          |            |            |            |                     |           |                     |           |
| January.....   | 1,231,084  | 10,803,755 | 13,955,706 | 2,562,705           | 7,200,802 | 11,185,513          |           |
| February.....  | 879,336    | 9,184,888  | 14,960,667 | 2,268,579           | 5,173,833 | 10,791,484          |           |
| March.....     | 753,255    | 12,364,264 | 17,909,570 | 2,890,335           | 4,150,881 | 9,615,128           |           |
| April.....     | 803,287    | 14,069,850 | 16,875,733 | 3,606,206           | 2,800,815 | 7,529,540           |           |
| May.....       | 1,159,627  | 14,790,274 | 17,242,675 | 3,609,702           | 1,923,793 | 5,951,594           |           |
| June.....      | 1,471,884  | 14,522,851 | 16,568,419 | 4,409,162           | 931,057   | 4,136,640           |           |
| July.....      | 1,491,130  | 12,498,036 | 16,509,976 | 3,677,077           | 628,011   | 3,701,554           |           |
| August.....    | 1,777,734  | 8,514,812  | 14,404,194 | 2,967,521           | 739,391   | 3,317,123           |           |
| September..... | 1,901,487  | 6,512,791  | 12,914,839 | 2,230,935           | 874,347   | 3,040,166           |           |
| October.....   | 2,419,671  | 6,852,664  | 12,901,192 | 1,794,128           | 2,035,522 | 2,885,751           |           |
| November.....  | 3,031,132  | 7,112,994  | 13,734,668 | 1,627,743           | 6,350,132 | 3,175,868           |           |
| December.....  | 3,024,056  | 10,377,466 | 15,347,553 | 1,715,721           | 7,768,699 | 7,405,048           |           |

## Section 5.—Bounties.\*

In cases where it is considered advisable for the Government to encourage the production of a particular commodity, bounties paid by the Government are recognized substitutes for protective duties. In the past they have been made use of by Canada to a considerable degree, but the only bounties which involved payments in the last few years were those on copper bars and rods, hemp and bituminous coal mined in Canada and used in the manufacture of iron or steel. The Copper Bounty Act expired on June 30, 1931 and the Hemp Bounty Act expired on Dec. 31, 1932. The bounty on bituminous coal was the outcome of a recommendation of the Royal Commission on Maritime Claims relating to the use of Canadian coal in the manufacture of iron and steel.

The amounts of the above bounties paid in recent fiscal years have been as follows:—

## Copper Bounties Paid in—

|              |                           |               |
|--------------|---------------------------|---------------|
| 1924-25..... | 1,164,140 lb. at 11c..... | \$ 14,551-75  |
| 1925-26..... | 1,482,267 lb. at 1c.....  | 14,822-67     |
| 1926-27..... | 9,326,360 lb. at 1c.....  | 93,263-60     |
|              | 9,463,826 lb. at 2c.....  | 189,265-52    |
| 1927-28..... | 6,923,478 lb. at 2c.....  | 138,475-56    |
|              | 5,578,693 lb. at 3c.....  | 167,360-79    |
| 1928-29..... | 13,772,877 lb. at 1c..... | 137,728-77    |
| 1929-30..... | 6,507,212 lb. at 1c.....  | 65,072-12     |
| 1930-31..... | 17,739,497 lb. at 1c..... | 177,394-97    |
| 1931-32..... | 29,645,832 lb. at 1c..... | 296,458-32    |
| Totals.....  | 101,604,182 lb.           | \$ 611,762-93 |

## Hemp Bounties Paid in—

|              |                         |              |
|--------------|-------------------------|--------------|
| 1927-28..... | 19,048 lb. at 11c.....  | \$ 2,095-28  |
|              | 50,508 lb. at 11c.....  | 5,555-88     |
| 1928-29..... | 6,579 lb. at 11c.....   | 723-69       |
|              | 826,821 lb. at 12c..... | 99,218-52    |
| 1929-30..... | 666,113 lb. at 13c..... | 86,594-69    |
| 1930-31..... | 348,345 lb. at 1c.....  | 3,483-14     |
| 1931-32..... | 250,280 lb. at 1c.....  | 2,502-80     |
|              | 17,193 lb. at 12c.....  | 2,063-16     |
| 1932-33..... | 18,306 lb. at 12c.....  | 2,196-72     |
| Totals.....  | 2,203,193 lb.           | \$ 26,846-82 |

## Coal Bounties Paid in—

|                              |                           |               |
|------------------------------|---------------------------|---------------|
| 1930-31.....                 | 273,148 tons at 49½c..... | \$ 135,209-23 |
| 1931-32.....                 | 126,356 tons at 49½c..... | 62,546-18     |
| 1932-33.....                 | 118,753 tons at 49½c..... | 58,797-54     |
| 1933-34.....                 | 213,841 tons at 49½c..... | 106,851-25    |
| 1934-35 to August 31/34..... | 84,189 tons at 49½c.....  | 41,673-54     |
| Totals.....                  | 816,317 tons              | \$ 404,077-74 |

Bounties have been paid at various times in the past on iron and steel, on lead, on crude petroleum, on manila fibre, on zinc and on linen yarns, but the bounties on iron and steel ceased in 1911, on lead in 1918, on zinc in 1921, on linen yarns in 1923 and on crude petroleum in 1927. The total amounts paid in bounties on these commodities between 1896 and the date of expiration were: iron and steel, and manufactures of (1896-1912), \$16,785,827 (Canada Year Book 1915, p. 460); lead (1899-1918), \$1,979,216 for 1,187,169,878 lb.; zinc, \$400,000; linen yarns, \$17,523; manila fibre (1903-1913), \$367,962; crude petroleum (1905-27), \$3,457,173 on 233,135,217 gallons. (For quantities of crude petroleum and bounties paid in each year, see table on p. 635 of the 1927-28 Year Book.) Total payments for expired bounties between 1896 and 1932 aggregated \$23,007,701, which, with the

\*Revised by L. T. Lett, Chief Accountant, Department of Trade and Commerce.

\$611,763 paid on copper bars and rods and the \$26,847 for hemp and the \$404,078 for coal, make a total of \$24,050,389. The Year Book of 1915, pp. 459-461, gave a description of the bounties that had been payable since 1883, as well as tables showing, for each commodity, the quantities on which bounties were annually paid and the amounts of such bounties for the years 1896 to 1915 inclusive. For details of the bounties on zinc, see p. 635 of the 1927-28 Year Book.

## Section 6.—Patents, Copyrights, and Trade Marks.\*

**Patents.**—Letters patent, which in England have been in the gift of the Crown from the time of the Statute of Monopolies and earlier, are a purely statutory grant in Canada and have always been so. The earliest Act was one of Lower Canada, passed in 1824, wherein provision was made for the granting of patent rights to inventors who were British subjects and inhabitants of the province. Upper Canada passed its Act in 1826, and Nova Scotia and New Brunswick passed theirs at later dates. In 1849, after the Union, a consolidating Act was passed applying to both Upper and Lower Canada, and the B.N.A. Act assigned the granting of patents exclusively to the Parliament of Canada. The Dominion Patent Act of 1869 repealed the provincial Acts and has formed the basis of all succeeding Acts.

The first Canadian patent was issued under the Lower Canada Act of 1824 to Noah Cushing of Quebec; 165 patents were granted under the Acts of Upper and Lower Canada, and, under the consolidating and later Acts of the provinces 3,160 patents were granted.

Letters patent are now issued subject to the provisions of Chapter 150, R.S.C., 1927 (as amended by c. 4, 1928, c. 34, 1930, and c. 21, 1932), and application for protection relating to the same should be addressed to the Commissioner of Patents, Ottawa, Canada.

Invention means any new and useful art, process, machine, manufacture or composition of matter or any new and useful improvement in any art, process, machine, manufacture or composition of matter.

The growth of Canadian inventions is shown by the fact that an average of 1,422 patents was issued annually to Canadians during the decade 1920-29. The business of the Office has continued to expand gradually. The number of applications and total fees increased each year without a break from the beginning of the present century until the fiscal year ended Mar. 31, 1913, when 8,681 applications were received and the total fees amounted to \$218,125. In the fiscal year ended Mar. 31, 1934, there were 9,267 applications, with fees amounting to \$362,146, as compared with 10,145 and \$393,067, respectively, in 1933. For the fiscal year ended Mar. 31, 1934, the number of patents granted was 9,124 as compared with 10,241 in 1933, a decrease of 1,119. Of the patents of 1934, 5,998 or 66 p.c. were issued to United States' inventors, 982 to Canadians and 804 to residents of Great Britain and Ireland, while Germany with 566, France with 175, Holland with 97 and Sweden with 91 came next in the number of inventors to whom patents were issued.

\*Revised by J. T. Mitchell, Acting Commissioner of Patents, Ottawa.

**23.—Numbers of Canadian Patentees, by Province of Residence, for the fiscal years ended Mar. 31, 1923-34.**

| Province.              | 1923.        | 1924.        | 1925.        | 1926.        | 1927.        | 1928.        | 1929.        | 1930.        | 1931.        | 1932.        | 1933.        | 1934.      |
|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
|                        | No.          | No.          | No.          | No.          | No.          | No.          | No.          | No.          | No.          | No.          | No.          | No.        |
| Prince Edward Island.. | 9            | 7            | 2            | 2            | 5            | 3            | 1            | 3            | 3            | 2            | —            | 1          |
| Nova Scotia.....       | 35           | 41           | 26           | 30           | 19           | 24           | 16           | 17           | 14           | 18           | 14           | 16         |
| New Brunswick.....     | 21           | 14           | 24           | 24           | 21           | 12           | 17           | 16           | 18           | 6            | 14           | 8          |
| Quebec.....            | 430          | 312          | 302          | 272          | 320          | 295          | 293          | 282          | 265          | 272          | 257          | 236        |
| Ontario.....           | 845          | 673          | 559          | 561          | 499          | 537          | 538          | 500          | 491          | 504          | 462          | 475        |
| Manitoba.....          | 158          | 83           | 66           | 68           | 89           | 71           | 61           | 72           | 74           | 47           | 71           | 42         |
| Saskatchewan.....      | 166          | 106          | 101          | 90           | 68           | 100          | 93           | 81           | 66           | 55           | 37           | 52         |
| Alberta.....           | 155          | 123          | 95           | 95           | 82           | 88           | 98           | 71           | 76           | 63           | 35           | 48         |
| British Columbia.....  | 202          | 174          | 127          | 150          | 129          | 152          | 148          | 126          | 101          | 117          | 113          | 104        |
| Yukon and N.W.T.....   | —            | —            | —            | —            | —            | —            | —            | 1            | 1            | —            | —            | —          |
| <b>Totals.....</b>     | <b>2,021</b> | <b>1,533</b> | <b>1,302</b> | <b>1,292</b> | <b>1,232</b> | <b>1,285</b> | <b>1,265</b> | <b>1,169</b> | <b>1,109</b> | <b>1,084</b> | <b>1,003</b> | <b>982</b> |

It will be seen from the table that the more populous provinces of Ontario and Quebec obtained the largest absolute number of patents, but a calculation of the number of patentees in relation to population shows that, for the fiscal year 1934, the greatest relative inventiveness was displayed in British Columbia, with one patent granted for every 6,971 persons, while Ontario had one for every 7,507 persons and Quebec one for every 12,805 persons.

As will be seen from Table 24 the increased activity in invention which was manifested during the fiscal year ended 1929 was still more marked in the fiscal year ended 1930; there has been a decline in each year since then. Apparently the industrial depression has extended its baneful influence over this field also. In the latest year applications for patents were distributed pretty well over the whole field of invention without showing outstanding trends along any particular lines.

**24.—Statistics of Patents Applied for, Granted, etc., fiscal years ended Mar. 31, 1929-34.**

| Item.                              |     | 1929.   | 1930.   | 1931.   | 1932.   | 1933.   | 1934.   |
|------------------------------------|-----|---------|---------|---------|---------|---------|---------|
| Applications for patents           | No. | 13,062  | 14,288  | 13,299  | 11,940  | 10,145  | 9,267   |
| Patents granted                    | "   | 9,335   | 10,401  | 11,262  | 11,124  | 10,341  | 9,124   |
| Certificates for renewal fees..... | "   | 404     | 149     | 52      | 40      | 11      | 10      |
| Caveats granted.....               | "   | 334     | 363     | 352     | 383     | 470     | 466     |
| Assignments.....                   | "   | 8,227   | 9,505   | 9,190   | 9,001   | 7,354   | 6,577   |
| Fees received, net.....            | \$  | 434,498 | 478,327 | 472,636 | 441,110 | 393,067 | 362,146 |

**Copyrights and Trade Marks.** Registration of copyright is governed by c. 32, R.S.C., 1927, and an application for protection relating to same should be addressed to the Commissioner of Patents, Ottawa, Canada.

The Copyright Act of 1921 (amended in 1923 and consolidated in c. 32, R.S.C., 1927) sets out in Section 4 the qualifications for a copyright and in Section 5, its duration: "Copyrights shall subsist in Canada . . . in every original literary, dramatic, musical and artistic work, if the author was, at the date of the making of the work, a British subject, a citizen or subject of a foreign country which has adhered to the (Berne) Convention and the additional Protocol . . . or resident within His Majesty's Dominions. The term for which the copyright shall subsist shall, except as otherwise expressly provided by this Act, be the life of the author and a period of fifty years after his death".



Copyright protection is extended to records, perforated rolls, cinematographic films and other contrivances by means of which a work may be mechanically performed. The intention of the Act is to enable Canadian authors to obtain full copyright protection throughout all parts of His Majesty's Dominions, foreign countries of the Copyright Union, and the United States of America, as well as in Canada.

The Trade Mark and Design Act (c. 201, R.S.C., 1927) was amended by c. 10 of the Statutes of 1928, bringing the Act into agreement with the terms of the Convention for the Protection of Industrial Property, as amended at The Hague in 1925 with regard to refusal to register certain trade marks. The renewal of expired trade mark registration was also provided for, while it was also enacted that in certain cases interested parties might apply to the Exchequer Court of Canada for the cancellation of a trade mark at any time within three years from its registration. The Unfair Competition Act, 1932, (22-23 Geo. V, c. 38), repealed all parts of the above Act relating to trade marks and all trade marks are now registered under and protected by the new Act.

#### 25.—Statistics of Copyrights, Trade Marks, etc., fiscal years ended Mar. 31, 1929-34.

| Item.                               | 1929.  | 1930.  | 1931.  | 1932.  | 1933.   | 1934.  |
|-------------------------------------|--------|--------|--------|--------|---------|--------|
| Copyrights registered.....No.       | 3,043  | 4,072  | 3,008  | 2,812  | 2,684   | 2,537  |
| Certificates of copyright.....“     | 2,781  | 3,849  | 3,008  | 2,812  | 2,684   | 2,537  |
| Trade marks registered.....“        | 2,316  | 3,143  | 2,848  | 2,186  | 2,950   | 2,066  |
| Industrial designs registered.....“ | 337    | 408    | 495    | 371    | 409     | 331    |
| Timber marks registered.....“       | 12     | 12     | 24     | 6      | 4       | 6      |
| Assignments registered.....“        | 2,055  | 2,282  | 1,703  | 1,661  | 1,416   | 1,143  |
| Fees received, net.....\$           | 95,741 | 96,591 | 87,009 | 81,138 | 146,274 | 67,196 |

**Financial Statistics.**—The following table gives the receipts, expenditures and surplus on account of patents, copyrights and trade marks for the fiscal years 1929-34.

#### 26.—Receipts, Expenditures and Surplus on Account of Patents, Copyrights and Trade Marks, fiscal years ended Mar. 31, 1929-34.

NOTE.—For figures from 1921 to 1928 see the 1933 Year Book, p. 624.

| Fiscal Year. | Receipts. | Expenditures.     |                |                |         | Surplus. |
|--------------|-----------|-------------------|----------------|----------------|---------|----------|
|              |           | Civil Government. | Patent Record. | Contingencies. | Total.  |          |
|              | \$        | \$                | \$             | \$             | \$      | \$       |
| 1929.....    | 530,239   | 162,005           | 29,749         | 26,870         | 218,624 | 311,615  |
| 1930.....    | 574,918   | 169,339           | 34,946         | 31,622         | 235,907 | 339,011  |
| 1931.....    | 559,646   | 174,458           | 35,000         | 32,000         | 241,458 | 318,188  |
| 1932.....    | 525,248   | 173,370           | 35,000         | 37,893         | 246,263 | 278,985  |
| 1933.....    | 539,341   | 155,465           | 25,000         | 24,829         | 205,293 | 334,047  |
| 1934.....    | 429,342   | 152,624           | 32,860         | 22,649         | 208,133 | 221,209  |

### Section 7.—Weights and Measures.\*

The object of weights and measures administration is to maintain uniformity and accuracy in the use of the legal standards of the country in industry and commerce, to protect the public from short weight and measure and the trading community from unfair competition arising from such practices.

Prior to Confederation, the administration of weights and measures was in the hands of each Provincial Government but passed to the Dominion Government in 1867, under Section 91 of the British North America Act. Steps were then taken to simplify the standards in use and to establish uniformity throughout the Dominion.

What might be termed the principal Weights and Measures Act of Canada was passed in the session of 1872-73; its provisions closely followed English weights and measures law, but the system of weights and measures was greatly simplified. This Act established as the primary legal standards for Canada the imperial pound, gallon and yard, but in place of the system of stones, quarters, hundredweights (112 lb.) and the long ton (2,240 lb.) it provided a decimal series of weights, 1, 2, 3, 5, 10, 20, 30, 50, 100 lb., and the short ton of 2,000 lb. The only exceptions to this were the continued use of the old French land measure, the arpent, in Quebec, and the use of the long ton (2,240 lb.) in the coal-mining industry, but not for the retail sale of coal. The troy ounce of 480 grains and its decimal submultiples are the legal weights for the weighing of gold and precious metals. The metric system is legal for all transactions.

Many changes, deletions and additions have been made to the Act of 1873 by later legislation, but its principles remain unchanged. The latest legislation is the Weights and Measures Act (c. 212, R.S.C., 1927).

The Weights and Measures Service was first administered by the Department of Inland Revenue, and offices were opened in all the principal centres of Canada and equipped with standards and inspection equipment. In 1918 the Service was transferred to the Department of Trade and Commerce. For purposes of administration, the Dominion is divided into 18 districts, each in charge of a district inspector. The chief rules of administration are as follows:—

- (a) Every new type of weighing and measuring device must be submitted to the Department at Ottawa for approval before being placed on the market.
- (b) Every new machine must be inspected and stamped by an inspector before being sold or taken into use.
- (c) Imported machines are held by the customs until release is approved by the nearest inspector.
- (d) All inspections take place on the traders' premises, except where devices are brought to the inspection offices.
- (e) Fees are charged for inspection and stamping, the schedule being defined by Order in Council, and all moneys so collected are paid into the Consolidated Revenue Fund of Canada.

The following table is a summary of the articles and machines inspected in the fiscal years ended Mar. 31, 1933 and 1934. The total revenues collected by the Service in the fiscal years ended 1933 and 1934 amounted to \$394,222 and \$399,717, respectively, while the expenses, including salaries, totalled \$306,158 and \$236,667, respectively.

\*Revised by E. O. Way, Director of Weights and Measures, Department of Trade and Commerce.

**27.—Inspections by the Weights and Measures Service, fiscal years ended Mar. 31, 1933 and 1934.**

| Article.                           | 1933.           |                |                |                                           | 1934.           |                |                |                                           |
|------------------------------------|-----------------|----------------|----------------|-------------------------------------------|-----------------|----------------|----------------|-------------------------------------------|
|                                    | Sub-<br>mitted. | Veri-<br>fied. | Re-<br>jected. | Per-<br>centage<br>of<br>Rejec-<br>tions. | Sub-<br>mitted. | Veri-<br>fied. | Re-<br>jected. | Per-<br>centage<br>of<br>Rejec-<br>tions. |
| Weights (Domin-<br>ion).....       | 89,708          | 85,460         | 4,248          | 4.73                                      | 91,802          | 87,438         | 4,364          | 4.75                                      |
| Weights (metric)...                | 669             | 631            | 38             | 5.68                                      | 738             | 711            | 27             | 3.66                                      |
| Measures of capa-<br>city.....     | 64,447          | 64,076         | 371            | 0.57                                      | 56,738          | 56,486         | 252            | 0.44                                      |
| Measures of length.                | 7,440           | 7,374          | 66             | 0.88                                      | 7,532           | 7,505          | 27             | 0.36                                      |
| Milk-cans.....                     | 42,129          | 42,052         | 77             | 0.18                                      | 55,552          | 55,495         | 57             | 0.10                                      |
| Ice-cream contain-<br>ers.....     | 22,337          | 22,337         | —              | —                                         | 20,500          | 20,500         | —              | —                                         |
| Measuring devices.                 | 50,790          | 43,274         | 7,516          | 14.8                                      | 52,747          | 45,264         | 7,483          | 14.19                                     |
| Tank wagons.....                   | 456             | 444            | 12             | 2.6                                       | 561             | 532            | 29             | 5.17                                      |
| Babcock glassware                  | 24,692          | 24,558         | 134            | 0.54                                      | 37,176          | 36,921         | 255            | 0.69                                      |
| Weighing machines                  | 179,653         | 160,639        | 19,014         | 10.5                                      | 178,490         | 159,470        | 19,020         | 10.67                                     |
| Weighing machines<br>(metric)..... | 473             | 458            | 15             | 3.17                                      | 530             | 511            | 19             | 3.58                                      |
| Domestic scales...                 | —               | —              | —              | —                                         | 33,384          | 32,245         | 1,139          | 3.41                                      |
| <b>Totals.....</b>                 | <b>482,794</b>  | <b>451,303</b> | <b>31,491</b>  | <b>—</b>                                  | <b>535,750</b>  | <b>503,078</b> | <b>32,672</b>  | <b>—</b>                                  |

### Section 8.—Electricity and Gas Inspection.\*

The Electricity and Gas Inspection Branch of the Department of Trade and Commerce administers three Acts: the Electricity Inspection Act (c. 22, 1928), the Gas Inspection Act (c. 82, R.S.C., 1927), and the Electricity and Fluid Exportation Act (c. 54, R.S.C., 1927).

The latest report of the Branch shows 402,662 electricity and gas meters tested in the fiscal year ended Mar. 31, 1934, as compared with 439,334 in the preceding year. The total revenue derived from electricity and gas inspection was \$271,203, as compared with an expenditure of \$200,593. The Branch also collected \$245,274 as export duty and licence fees under the provisions of the Electricity and Fluid Exportation Act; the cost of collecting this revenue was only \$302.

Other related statistics collected in the administration of the last-named Act will be found on p. 430, in the Water Power chapter of the Year Book. Here, however, are given statistics, also collected by the Branch in the process of administration, showing a phenomenal increase in the number of consumers of electricity in the past 20 years, from 505,597 to 1,720,997 (Table 28); a lesser increase in the gas meters in use from 267,454 in 1916 to 657,612 in 1934 (Table 29); and the number of cubic feet of gas sold in Canada from 1920 to 1934 classified as carburetted water gas, coal gas, coke oven gas, natural gas, acetylene gas and butane (Table 30).

\*Revised by J. L. Stiver, Director, Electricity and Gas Inspection Service, Department of Trade and Commerce.

## 28.—Numbers of Electricity Meters in Use, fiscal years ended Mar. 31, 1915-34.

| Fiscal Year. | Number.   | Fiscal Year. | Number.   |
|--------------|-----------|--------------|-----------|
| 1915.....    | 505,597   | 1925.....    | 1,165,664 |
| 1916.....    | 517,629   | 1926.....    | 1,240,752 |
| 1917.....    | 594,737   | 1927.....    | 1,314,428 |
| 1918.....    | 661,403   | 1928.....    | 1,412,521 |
| 1919.....    | 717,776   | 1929.....    | 1,499,872 |
| 1920.....    | 743,468   | 1930.....    | 1,582,505 |
| 1921.....    | 860,379   | 1931.....    | 1,653,922 |
| 1922.....    | 945,599   | 1932.....    | 1,704,197 |
| 1923.....    | 1,046,831 | 1933.....    | 1,722,697 |
| 1924.....    | 1,094,639 | 1934.....    | 1,720,997 |

## 29.—Numbers of Gas Meters in Use, by Kinds of Gas Consumed, fiscal years ended Mar. 31, 1916-34.

| Fiscal Year. | Manufactured Gas. | Natural Gas. | Acetylene Gas. | Butane. | Total.  |
|--------------|-------------------|--------------|----------------|---------|---------|
|              | No.               | No.          | No.            | No.     | No.     |
| 1916.....    | 199,514           | 67,940       | —              | —       | 267,454 |
| 1917.....    | 314,915           | 55,697       | —              | —       | 370,612 |
| 1918.....    | 325,244           | 88,795       | —              | —       | 414,039 |
| 1919.....    | 336,388           | 91,056       | —              | —       | 427,444 |
| 1920.....    | 350,777           | 85,004       | 513            | —       | 436,294 |
| 1921.....    | 361,479           | 98,494       | 577            | —       | 460,550 |
| 1922.....    | 366,840           | 101,785      | 430            | —       | 469,055 |
| 1923.....    | 379,459           | 102,007      | 438            | —       | 481,904 |
| 1924.....    | 390,548           | 105,804      | 425            | —       | 496,777 |
| 1925.....    | 405,471           | 106,561      | 404            | —       | 512,736 |
| 1926.....    | 443,067           | 85,752       | 425            | —       | 529,244 |
| 1927.....    | 462,496           | 90,302       | 358            | —       | 553,156 |
| 1928.....    | 482,076           | 98,915       | 357            | —       | 581,348 |
| 1929.....    | 504,500           | 107,504      | 116            | —       | 612,120 |
| 1930.....    | 520,788           | 118,390      | 117            | —       | 639,295 |
| 1931.....    | 530,909           | 125,550      | 67             | 205     | 656,731 |
| 1932.....    | 540,277           | 128,104      | 66             | 230     | 668,767 |
| 1933.....    | 532,139           | 128,282      | 80             | 285     | 660,786 |
| 1934.....    | 522,484           | 134,710      | 49             | 369     | 657,612 |

## 30.—Numbers of Cubic Feet of each Kind of Gas Sold in Canada, fiscal years ended Mar. 31, 1920-34.

| Fiscal Year. | Carburetted Water Gas. | Coal Gas.     | Coke Oven Gas. | Natural Gas.   | Acetylene Gas. | Butane.    | Total.         |
|--------------|------------------------|---------------|----------------|----------------|----------------|------------|----------------|
|              | cu. ft.                | cu. ft.       | cu. ft.        | cu. ft.        | cu. ft.        | cu. ft.    | cu. ft.        |
| 1920.....    | 4,487,511,639          | 6,787,370,045 | —              | 17,117,100,328 | 1,669,650      | —          | 28,393,651,662 |
| 1921.....    | 5,331,442,415          | 7,096,221,745 | —              | —              | —              | —          | —              |
| 1922.....    | 4,668,391,857          | 8,433,860,903 | —              | —              | —              | —          | —              |
| 1923.....    | 6,632,961,609          | 7,637,113,997 | 132,000        | 11,289,592,401 | 1,005,000      | —          | 24,392,850,161 |
| 1924.....    | 5,214,843,290          | 8,042,882,100 | 3,188,600      | 12,238,836,883 | 1,165,395      | —          | 26,510,207,884 |
| 1925.....    | 5,254,802,700          | 7,824,192,540 | 91,628,300     | 14,866,618,700 | 1,194,059      | —          | 28,128,726,149 |
| 1926.....    | 4,835,613,326          | 8,149,894,391 | 1,449,794,500  | 10,525,064,563 | 1,266,109      | —          | 23,697,494,212 |
| 1927.....    | 5,804,503,168          | 8,405,556,329 | 1,049,978,000  | 13,004,469,776 | 1,210,894      | —          | 27,440,982,887 |
| 1928.....    | 6,883,634,603          | 7,488,964,653 | 1,680,237,100  | 17,863,365,790 | 1,247,108      | —          | 33,124,650,995 |
| 1929.....    | 4,550,828,600          | 6,273,274,533 | 6,097,920,366  | 20,365,048,768 | 1,325,510      | —          | 36,419,210,634 |
| 1930.....    | 4,456,996,628          | 5,802,653,503 | 8,153,473,000  | 25,491,446,000 | 647,168        | —          | 42,414,116,667 |
| 1931.....    | 4,214,554,234          | 6,249,189,852 | 7,792,016,911  | 31,880,844,600 | 847,230        | —          | 50,294,814,961 |
| 1932.....    | 4,267,073,950          | 6,385,621,906 | 7,235,463,396  | 28,534,604,069 | 875,080        | 9,137,000  | 46,800,407,146 |
| 1933.....    | 3,821,679,400          | 7,491,001,500 | 5,908,231,396  | 27,244,803,100 | 789,730        | 6,600,180  | 45,140,352,262 |
| 1934.....    | 3,349,893,180          | 7,652,343,932 | 5,331,047,359  | 27,342,696,329 | 4,982,308      | 11,930,228 | 44,500,524,161 |
|              |                        |               |                | 26,423,632,428 | 4,737,238      | 13,267,900 | 42,774,922,037 |



## Section 9.—Census of Merchandising and Service Establishments.\*

A comprehensive survey of business carried on by trading and service establishments was undertaken for the first time in connection with the Seventh Decennial Census in 1931. A partial census of trading establishments only had been made in 1924, but the results of this initial survey, while indicative of the extent of domestic trade, suffered from the incompleteness of the canvass made at that time. The Census of Merchandising and Service Establishments, 1931, covered not only the operations of retail and wholesale merchandising establishments in 1930, but also those of service establishments, including hotels. In addition, information was collected to show the manner in which goods manufactured in Canada are distributed. Preliminary figures for the census were issued in several series of mimeographed bulletins, while the final results are being published in a series of provincial reports.

An outgrowth of the Census of Merchandising and Service Establishments has been an annual survey of retail and wholesale trade based on the reports of all chain stores and of the larger independent stores having an annual turnover of \$30,000 or more in 1930 (\$20,000 or more in the case of food stores or country general stores). While the annual figures for merchandising are not based on such a comprehensive survey as that made in connection with the decennial census, and are thus *estimates based on a sample of from two-thirds to 70 p.c. of the whole field*, they provide the most reliable indicators available of recent trends in merchandise trade.

**Retail Merchandise Trade, 1930-1933.**—On the basis of the results of the annual Census of Merchandising and Service Establishments, to which reference has already been made, the retail merchandise trade in Canada during the year 1933 is estimated at \$1,776,884,000, compared with \$2,755,569,900 in 1930. (See Table 31.) While the decline in all lines of trade combined was thus 35.5 p.c., some kinds of business show much heavier losses than others. How much of the decrease is due to the decline in prices and how much to a reduction in the physical volume of trade, it is not possible to say. The food and general merchandise groups show the least loss in dollar sales, while the largest declines are shown for the retail establishments specializing in building materials and furniture and household goods.

Among the provinces, Saskatchewan has suffered the most severe decline in business, followed by Alberta and British Columbia. If the year-to-year changes in the volume of business are compared, it will be found that in the Prairie Provinces the greatest decline during the period took place in 1931, while for all other provinces the year 1932 shows the largest losses. In all provinces the decline in 1933 was less than in either 1931 or 1932.

\* Prepared by Herbert Marshall, B.A., F.S.S., Chief, Internal Trade Branch, Dominion Bureau of Statistics. For a list of publications of this Branch, see Chapter XXIX, Section I, under "Internal Trade".

### 31.—Retail Merchandise Trade—Total Sales and Indexes of Sales by Groups and Provinces, 1930-33.

| Group or Province.       | Totals of Sales.     |                      |                      |                      | Indexes of Retail Sales.<br>(1930=100.) |             |             |             |
|--------------------------|----------------------|----------------------|----------------------|----------------------|-----------------------------------------|-------------|-------------|-------------|
|                          | 1930.                | (Estimated.)         |                      |                      | 1930.                                   | 1931.       | 1932.       | 1933.       |
|                          |                      | 1931.                | 1932.                | 1933.                |                                         |             |             |             |
|                          | \$                   | \$                   | \$                   | \$                   |                                         |             |             |             |
| Food group.....          | 615,476,100          | 534,423,000          | 460,570,000          | 431,165,000          | 100-0                                   | 86-8        | 74-8        | 70-1        |
| Country general stores.  | 228,803,800          | 185,400,000          | 158,635,000          | 151,233,000          | 100-0                                   | 81-0        | 69-3        | 66-1        |
| General merchandise      |                      |                      |                      |                      |                                         |             |             |             |
| group.....               | 451,542,500          | 400,948,000          | 330,601,000          | 313,258,000          | 100-0                                   | 88-8        | 73-2        | 69-4        |
| Automotive group.....    | 381,959,300          | 298,040,000          | 235,252,000          | 218,484,000          | 100-0                                   | 78-0        | 61-6        | 57-2        |
| Apparel group.....       | 219,968,600          | 189,230,000          | 155,929,000          | 147,085,000          | 100-0                                   | 86-0        | 70-9        | 66-9        |
| Building materials       |                      |                      |                      |                      |                                         |             |             |             |
| group.....               | 162,237,100          | 128,991,000          | 95,855,000           | 82,797,000           | 100-0                                   | 79-5        | 59-1        | 51-0        |
| Furniture and house-     |                      |                      |                      |                      |                                         |             |             |             |
| hold group.....          | 101,665,900          | 82,247,000           | 58,856,000           | 50,634,000           | 100-0                                   | 80-9        | 57-9        | 49-8        |
| Restaurants, cafeterias  |                      |                      |                      |                      |                                         |             |             |             |
| and eating places.....   | 75,977,100           | 62,040,000           | 47,673,000           | 41,666,000           | 100-0                                   | 81-7        | 62-7        | 54-8        |
| Other retail stores..... | 517,939,500          | 444,413,000          | 373,848,000          | 340,562,000          | 100-0                                   | 85-8        | 72-2        | 65-8        |
| <b>Canada, Totals...</b> | <b>2,755,569,900</b> | <b>2,325,732,000</b> | <b>1,917,219,000</b> | <b>1,776,884,000</b> | <b>100-0</b>                            | <b>84-4</b> | <b>69-6</b> | <b>64-5</b> |
| Prince Edward Island.    | 13,773,700           | 11,466,000           | 9,141,000            | 8,742,000            | 100-0                                   | 83-2        | 66-4        | 63-5        |
| Nova Scotia.....         | 99,519,900           | 90,187,000           | 74,966,000           | 69,349,000           | 100-0                                   | 90-6        | 75-3        | 69-7        |
| New Brunswick.....       | 84,371,900           | 71,692,000           | 56,992,000           | 52,445,000           | 100-0                                   | 85-0        | 67-5        | 62-2        |
| Quebec.....              | 651,138,500          | 562,395,000          | 464,963,000          | 421,141,000          | 100-0                                   | 86-4        | 71-4        | 64-7        |
| Ontario.....             | 1,099,990,200        | 951,288,000          | 786,859,000          | 737,000,000          | 100-0                                   | 86-5        | 71-5        | 67-0        |
| Manitoba.....            | 189,243,900          | 154,690,000          | 131,415,000          | 120,322,000          | 100-0                                   | 81-7        | 69-4        | 63-6        |
| Saskatchewan.....        | 189,181,100          | 137,792,000          | 112,929,000          | 104,123,000          | 100-0                                   | 72-8        | 59-7        | 55-0        |
| Alberta.....             | 176,537,100          | 136,505,000          | 115,578,000          | 108,277,000          | 100-0                                   | 77-3        | 65-5        | 61-3        |
| British Columbia.....    | 248,597,500          | 206,807,000          | 162,179,000          | 153,719,000          | 100-0                                   | 83-2        | 65-2        | 61-8        |
| Yukon and Northwest      |                      |                      |                      |                      |                                         |             |             |             |
| Territories.....         | 3,216,100            | 2,910,000            | 2,197,000            | 1,766,000            | 100-0                                   | 90-5        | 68-3        | 54-9        |

#### Subsection 1.—Wholesale and Other Bulk or Non-Retail Merchandising, 1930.

The wholesale field, as defined for the purposes of the census, embraces many types of establishments other than those generally classed as wholesale houses. Thus, under this heading of bulk merchandising, will be found not only the conventional types of wholesalers selling to retailers but also other establishments engaged in handling or arranging for the sale of commodities, or the transfer of rights, etc., on a non-retail basis, whether for domestic or foreign trade. In the tables presented below will be found the salient features of the operations of such classes as importers, exporters, commission merchants, brokers, etc., as well as the business of wholesale merchants. It should also be noted that the business of such establishments as bulk tank stations and manufacturers' sales branches is not included with that of the wholesale merchants, although a considerable part of the trade of these establishments is done with retailers.

There were 13,140 wholesale and other bulk or non-retail merchandising establishments in Canada in 1930. The total net sales for these establishments were \$3,325,210,300. This trade was concentrated, to a marked degree, in certain well-defined trading areas. Of the above total sales 30·49 p.c. were made by establishments in Ontario, 27·21 p.c. by those in Quebec, and 20·12 p.c. by those in Mani-

toba. In fact, approximately two-thirds of the entire trade was carried on by establishments located in the four cities of Montreal, Toronto, Winnipeg and Vancouver.

As already suggested, the bulk and non-retail merchandising field embraces many types of establishments, so that the amount of trade attributed to this field cannot be compared directly with the amount of retail business. A certain amount of business is transacted between bulk merchandising establishments, especially with respect to agents, brokers, and commission houses, and sales are made, by or through many wholesalers establishments, to manufacturers or other industrial consumers. In addition, some of these establishments are engaged in trading with foreign countries. Thus allowances must be made for the duplication in bulk and non-retail merchandising, for the sales of raw materials, for direct sales to consumers and for export business. In order to give a rough indication of the amount of pre-retail business, bulk merchandising establishments have been divided into two classes, "wholesalers proper" and "other bulk or non-retail distributors". The first class consists of those establishments which are carrying on the more conventional form of wholesale trading. The sales made by 5,108 wholesalers proper in 1930 were \$1,111,319,200, of which \$887,878,600 were made by wholesale merchants. Other types of bulk or non-retail distributors, consisting of 8,032 establishments, made sales or arranged orders to the value of \$2,213,891,100. It will be noted from Table 32 that, while the province of Manitoba had 20.12 p.c. of the total sales of all bulk merchandising, the business of wholesalers proper in Manitoba was only 7.15 p.c. of the total for Canada. This marked difference is due to the influence of the grain trade, which is such an important factor in the commerce of that province. The trade in grain is carried on mainly by establishments classified under "other bulk distributors" and appears, therefore, only in the all-inclusive figures of Table 32.

**32.—Bulk Merchandising (Wholesale and Other Non-Retail) in Canada, by Provinces, 1930.**

| Province.      | All Establishments. |               |                     |                      |                                |                                        | Wholesalers Proper. |                      |                                |
|----------------|---------------------|---------------|---------------------|----------------------|--------------------------------|----------------------------------------|---------------------|----------------------|--------------------------------|
|                | Estab-lish-ments.   | Em-ployees.   | Salaries and Wages. | Net Sales. (1930.)   | Proportion of Total Net Sales. | Stocks on Hand, End of Year (at Cost). | Estab-lish-ments.   | Net Sales. (1930.)   | Proportion of Total Net Sales. |
|                | No.                 | No.           | \$                  | \$                   | p.c.                           | \$                                     | No.                 | \$                   | p.c.                           |
| P.E.I.....     | 61                  | 313           | 354,600             | 13,533,300           | 0.41                           | 1,108,700                              | 28                  | 5,455,000            | 0.49                           |
| N.S.....       | 420                 | 2,522         | 3,503,800           | 71,616,200           | 2.15                           | 7,298,900                              | 217                 | 39,498,500           | 3.55                           |
| N.B.....       | 388                 | 2,825         | 3,989,300           | 72,839,900           | 2.19                           | 8,194,200                              | 165                 | 30,156,900           | 2.71                           |
| Que.....       | 2,932               | 26,171        | 41,958,100          | 904,795,500          | 27.21                          | 82,285,800                             | 1,479               | 355,618,100          | 32.00                          |
| Ont.....       | 3,938               | 31,155        | 51,094,700          | 1,013,767,400        | 30.49                          | 94,487,200                             | 2,004               | 387,550,300          | 34.87                          |
| Man.....       | 1,307               | 9,362         | 15,490,600          | 669,076,000          | 20.12                          | 28,561,500                             | 349                 | 79,393,100           | 7.15                           |
| Sask.....      | 1,659               | 5,441         | 8,393,300           | 137,112,000          | 4.12                           | 24,209,300                             | 178                 | 52,114,100           | 4.69                           |
| Alta.....      | 1,303               | 5,756         | 9,738,200           | 189,569,900          | 5.70                           | 23,560,400                             | 248                 | 64,091,200           | 5.77                           |
| B.C.....       | 1,129               | 7,019         | 11,824,000          | 252,900,100          | 7.61                           | 27,515,100                             | 440                 | 97,442,000           | 8.77                           |
| <b>Canada.</b> | <b>13,140</b>       | <b>90,564</b> | <b>146,346,600</b>  | <b>3,325,210,300</b> | <b>100.00</b>                  | <b>297,221,100</b>                     | <b>5,108</b>        | <b>1,111,319,200</b> | <b>100.00</b>                  |

### 33.—Bulk Merchandising (Wholesale and Other Non-Retail) in Canada, by Type of Distributor, 1930.

NOTE.—An (X) indicates that the figures are withheld to avoid disclosing individual operations, but these are included in the totals.

| Type of Distributor.                                      | Estab-<br>lish-<br>ments. | Em-<br>ployees. | Salaries<br>and<br>Wages. | Net Sales.           | Pro-<br>portion<br>of<br>Total<br>Net<br>Sales. | Stocks<br>on Hand,<br>End of<br>Year<br>(at Cost). |
|-----------------------------------------------------------|---------------------------|-----------------|---------------------------|----------------------|-------------------------------------------------|----------------------------------------------------|
|                                                           | No.                       | No.             | \$                        | \$                   | p.c.                                            | \$                                                 |
| <b>WHOLESALESAERS PROPER.</b>                             |                           |                 |                           |                      |                                                 |                                                    |
| Wholesale merchants.....                                  | 4,031                     | 39,184          | 58,405,000                | 887,878,600          | 26.70                                           | 125,922,700                                        |
| Exporters.....                                            | 110                       | 795             | 1,157,100                 | 36,220,600           | 1.09                                            | 3,295,200                                          |
| Importers.....                                            | 809                       | 7,907           | 13,554,000                | 164,461,800          | 4.95                                            | 34,385,200                                         |
| Cash-and-carry wholesalers.....                           | 4                         | 2               | 1,300                     | 130,400              | 1                                               | 10,000                                             |
| Drop shippers.....                                        | 42                        | 105             | 203,100                   | 6,454,700            | 0.19                                            | 5,600                                              |
| Mail order wholesalers.....                               | 4                         | 10              | 11,800                    | 73,900               | 1                                               | 16,500                                             |
| Wagon distributors.....                                   | 23                        | 27              | 29,700                    | 577,300              | 0.02                                            | 26,700                                             |
| Supply and machinery distributors....                     | 85                        | 821             | 1,565,400                 | 15,521,900           | 0.47                                            | 4,142,800                                          |
| <b>Totals, Wholesalers Proper.....</b>                    | <b>5,108</b>              | <b>48,851</b>   | <b>74,927,400</b>         | <b>1,111,319,200</b> | <b>33.42</b>                                    | <b>167,804,700</b>                                 |
| <b>OTHER BULK OR NON-RETAIL DISTRIBUTORS.</b>             |                           |                 |                           |                      |                                                 |                                                    |
| Bulk tank stations.....                                   | 3,602                     | 8,244           | 12,743,500                | 184,851,800          | 5.56                                            | 24,242,900                                         |
| District sales offices.....                               | 37                        | 1,359           | 3,044,400                 | 70,266,300           | 2.11                                            | 8,530,100                                          |
| General sales offices.....                                | 81                        | 2,808           | 5,605,100                 | 128,113,100          | 3.85                                            | 14,435,400                                         |
| Manufacturers' sales branches.....                        | 1,428                     | 15,179          | 26,809,000                | 556,530,300          | 10.74                                           | 54,503,300                                         |
| Export merchants.....                                     | 29                        | 638             | 1,345,900                 | 143,389,300          | 4.31                                            | 4,789,700                                          |
| Agents and Brokers—                                       |                           |                 |                           |                      |                                                 |                                                    |
| Auction companies.....                                    | 10                        | 79              | 170,700                   | 5,225,700            | 0.16                                            | 38,400                                             |
| Brokers (except grain).....                               | 145                       | 330             | 645,900                   | 67,250,700           | 2.02                                            | 389,000                                            |
| Brokers (cash grain).....                                 | 23                        | 15              | 27,000                    | 62,860,500           | 1.89                                            | —                                                  |
| Commission merchants.....                                 | 220                       | 743             | 1,312,800                 | 101,311,800          | 3.05                                            | 692,300                                            |
| Export Agents—                                            |                           |                 |                           |                      |                                                 |                                                    |
| Export brokers.....                                       | 23                        | 56              | 96,100                    | 21,177,200           | 0.64                                            | 99,000                                             |
| Export commission houses.....                             | 11                        | 42              | 87,300                    | 6,032,300            | 0.18                                            | 9,200                                              |
| Export manufacturers' agents.....                         | 3                         | (X)             | (X)                       | (X)                  | (X)                                             | (X)                                                |
| Export selling agents.....                                | 5                         | (X)             | (X)                       | (X)                  | (X)                                             | (X)                                                |
| Import Agents—                                            |                           |                 |                           |                      |                                                 |                                                    |
| Import commission merchants.....                          | 53                        | 198             | 472,800                   | 28,311,700           | 0.85                                            | 299,100                                            |
| Import manufacturers' agents.....                         | 379                       | 1,293           | 2,321,800                 | 64,209,300           | 1.93                                            | 3,195,700                                          |
| Import selling agents.....                                | 26                        | 209             | 442,200                   | 7,004,000            | 0.21                                            | 429,800                                            |
| Manufacturers' agents.....                                | 825                       | 2,070           | 3,690,900                 | 127,457,900          | 3.83                                            | 2,606,900                                          |
| Purchasing agents.....                                    | 9                         | (X)             | (X)                       | (X)                  | (X)                                             | (X)                                                |
| Resident buyers.....                                      | 2                         | (X)             | (X)                       | (X)                  | (X)                                             | (X)                                                |
| Selling agents.....                                       | 64                        | 513             | 1,113,700                 | 41,604,000           | 1.25                                            | 357,900                                            |
| Assemblers and Country Buyers—                            |                           |                 |                           |                      |                                                 |                                                    |
| Assemblers of farm products.....                          | 14                        | 165             | 121,700                   | 3,704,200            | 0.11                                            | 71,200                                             |
| City buyers of farm products.....                         | 88                        | 250             | 305,000                   | 10,378,600           | 0.31                                            | 591,000                                            |
| Country buyers of farm products.....                      | 482                       | 209             | 168,400                   | 11,517,300           | 0.35                                            | 251,800                                            |
| Co-operative marketing associations.....                  | 68                        | 815             | 337,000                   | 10,871,600           | 0.33                                            | 172,500                                            |
| Co-operative sales agencies.....                          | 27                        | 543             | 978,200                   | 205,444,300          | 6.18                                            | 985,100                                            |
| Elevators (independent).....                              | 34                        | 97              | 102,200                   | 3,013,700            | 0.09                                            | 271,600                                            |
| Elevators (line).....                                     | 35                        | 1,119           | 2,199,000                 | 125,716,900          | 3.78                                            | 659,700                                            |
| Milk stations.....                                        | 1                         | (X)             | (X)                       | (X)                  | (X)                                             | (X)                                                |
| Packers and shippers.....                                 | 15                        | 87              | 141,700                   | 2,582,400            | 0.08                                            | 113,600                                            |
| Chain store warehouses.....                               | 79                        | 3,648           | 4,725,800                 | 161,912,300          | 4.87                                            | 10,754,600                                         |
| Film exchanges.....                                       | 63                        | 884             | 1,196,900                 | 9,808,500            | 0.29                                            | 217,100                                            |
| Warehouses (distributing).....                            | 137                       | 459             | 710,200                   | 12,888,100           | 0.39                                            | 651,200                                            |
| Others.....                                               | 11                        | 22              | 41,200                    | 803,500              | 0.02                                            | 11,800                                             |
| <b>Totals, Other Bulk or Non-Retail Distributors.....</b> | <b>8,032</b>              | <b>41,713</b>   | <b>71,419,200</b>         | <b>2,213,891,100</b> | <b>66.58</b>                                    | <b>129,416,400</b>                                 |
| <b>Grand Totals.....</b>                                  | <b>13,140</b>             | <b>90,564</b>   | <b>146,346,600</b>        | <b>3,325,210,300</b> | <b>100.00</b>                                   | <b>297,221,100</b>                                 |

<sup>1</sup> Less than one one-hundredth of one per cent.

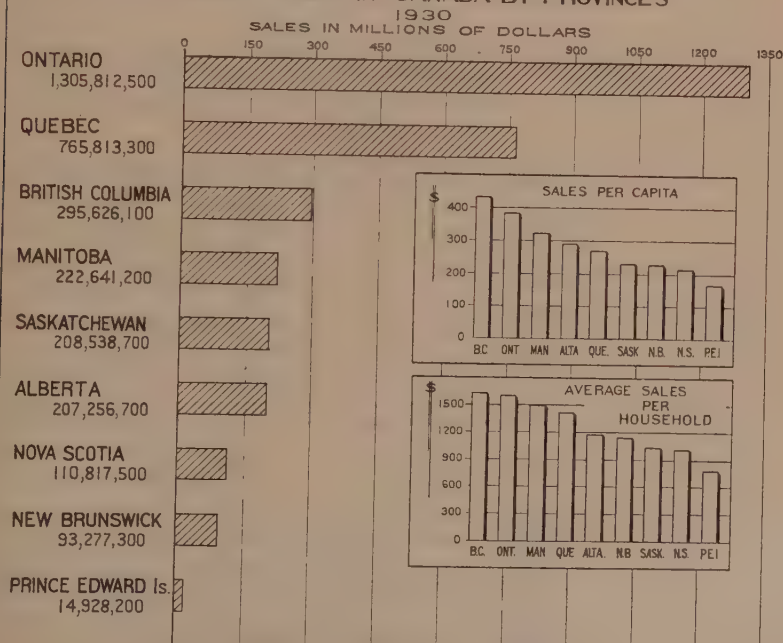


## Subsection 2.—Retail Trade.

While by far the greater part of retail trade is handled by retailing establishments, a considerable amount of retail business is conducted through other channels. The total value of the known retail trade in 1930 is shown in Table 34. The retail trade not included in this table consists for the most part of unrecorded sales by farmers and other producers directly to householders. In order to provide an indication of the purchasing power in each province, the average sales per household have been calculated. It should be borne in mind that the merchandise trade includes mail order sales, which may be made to persons outside of the province in which the mail order house is situated. The average sales per household tend to be highest in the provinces with the highest proportions of urban population and lowest in those provinces with the largest relatively rural populations.

**Summary of Merchandising and Services.**—The line of demarcation between these two classes of retailing cannot be sharply drawn. In many service establishments, especially those of the repair group, the retail sale of commodities is also carried on. Conversely, a great many stores, chiefly engaged in retail merchandising, have service departments for making alterations and repairs, for hair-dressing and other personal service, for cleaning, decorating, fur storage, etc. Establishments where both these functions are carried on have been classified according to the function which provided the largest receipts. For the sake of convenience, the fields are summarized by provinces and business groups in Table 35.

## RETAIL TRADE\* IN CANADA BY PROVINCES



\* The data cover all branches of retail trade which were statistically measured in the Census of Merchandising Establishments, 1931, and certain other branches which could not be so measured but for which estimates could be made upon the known data. A few branches do not admit of measurement or estimation and these are necessarily omitted.

## 34.—Value of the Known Retail

| No. | Trade.                                                                                                        | Canada. <sup>1</sup> | Prince Edward Island. | Nova Scotia.       | New Brunswick.    |
|-----|---------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|--------------------|-------------------|
|     |                                                                                                               | \$                   | \$                    | \$                 | \$                |
| 1   | Retail merchandise stores.....                                                                                | 2,755,569,900        | 13,773,700            | 99,519,900         | 84,371,900        |
| 2   | Retail service establishments.....                                                                            | 249,455,900          | 658,100               | 6,353,100          | 4,393,100         |
| 3   | Sales of meals in hotels.....                                                                                 | 28,124,200           | 161,400               | 1,289,800          | 881,600           |
| 4   | Sales of beer and wine in hotels.....                                                                         | 23,942,500           | —                     | —                  | —                 |
| 5   | Miscellaneous receipts in hotels.....                                                                         | 8,298,600            | 7,600                 | 169,000            | 118,600           |
| 6   | Retail sales by manufacturing bakeries....                                                                    | 51,604,900           | 133,800               | 826,700            | 744,000           |
| 7   | Retail sales by manufacturing dairies....                                                                     | 28,919,300           | 49,100                | 404,200            | 433,800           |
| 8   | Direct sales to consumers by other manufacturers (exclusive of retail branches, estimated).....               | 65,500,000           | 100,000               | 1,000,000          | 1,600,000         |
| 9   | Retail sales by co-operative associations (other than co-operative stores).....                               | 4,818,800            | 34,500                | 764,800            | 634,300           |
| 10  | Values of materials included in contracts for domestic plumbing, heating and electrical work (estimated)..... | 12,000,000           | 10,000                | 490,000            | 100,000           |
| 11  | <b>Totals.....</b>                                                                                            | <b>3,228,234,100</b> | <b>14,928,200</b>     | <b>110,817,500</b> | <b>93,277,300</b> |
| 12  | Numbers of households <sup>2</sup> .....No.                                                                   | 2,269,777            | 18,783                | 109,053            | 80,561            |
| 13  | Average sales per household.....\$                                                                            | 1,422                | 795                   | 1,016              | 1,158             |

<sup>1</sup> Includes Yukon and Northwest Territories.<sup>2</sup> Census figure, 1931, but includes an estimated figure for households in Yukon and Northwest Territories.

## 35.—Summary Statistics of Retail Merchandising and Service Estab-

| No.                          | Business Group.                                                              | Prince Edward Island.     | Nova Scotia.                | New Brunswick.              | Quebec.                       |
|------------------------------|------------------------------------------------------------------------------|---------------------------|-----------------------------|-----------------------------|-------------------------------|
| <b>RETAIL MERCHANDISING.</b> |                                                                              |                           |                             |                             |                               |
| 1                            | Food.....Stores, No.<br>Sales, \$                                            | 316<br>2,132,100          | 2,937<br>24,809,500         | 1,818<br>14,982,500         | 15,398<br>186,233,900         |
| 2                            | Country general.....Stores, No.<br>Sales, \$                                 | 168<br>3,253,200          | 862<br>14,513,500           | 706<br>12,236,200           | 2,992<br>50,390,200           |
| 3                            | General merchandise.....Stores, No.<br>Sales, \$                             | 8<br>2,304,900            | 149<br>11,438,300           | 98<br>13,679,900            | 1,287<br>85,228,800           |
| 4                            | Automotive.....Stores, No.<br>Sales, \$                                      | 76<br>1,960,700           | 511<br>16,254,400           | 451<br>11,697,800           | 2,298<br>71,739,500           |
| 5                            | Apparel.....Stores, No.<br>Sales, \$                                         | 52<br>1,298,600           | 460<br>9,141,500            | 307<br>6,373,300            | 3,103<br>61,105,900           |
| 6                            | Building materials.....Stores, No.<br>Sales, \$                              | 11<br>429,600             | 162<br>4,513,000            | 115<br>3,359,000            | 878<br>29,757,300             |
| 7                            | Furniture and household.....Stores, No.<br>Sales, \$                         | 13<br>406,200             | 146<br>3,380,600            | 87<br>2,592,300             | 812<br>30,181,500             |
| 8                            | Restaurants, cafeterias and other eating places.....Stores, No.<br>Sales, \$ | 19<br>141,900             | 221<br>1,474,500            | 174<br>1,204,300            | 925<br>17,205,300             |
| 9                            | Other retail.....Stores, No.<br>Sales, \$                                    | 185<br>1,840,800          | 968<br>13,807,400           | 648<br>13,159,400           | 6,351<br>116,797,900          |
| 10                           | Second-hand.....Stores, No.<br>Sales, \$                                     | 3<br>5,700                | 48<br>187,200               | 30<br>87,200                | 242<br>2,498,200              |
|                              | <b>Totals.....Stores, No.<br/>Sales, \$</b>                                  | <b>851<br/>13,773,700</b> | <b>6,464<br/>99,519,900</b> | <b>4,434<br/>84,371,900</b> | <b>34,286<br/>651,138,500</b> |

Trade in Canada, by Provinces, 1930.

| Quebec.            | Ontario.             | Manitoba.          | Saskatchewan.      | Alberta.           | British Columbia.  | No.       |
|--------------------|----------------------|--------------------|--------------------|--------------------|--------------------|-----------|
| \$                 | \$                   | \$                 | \$                 | \$                 | \$                 |           |
| 651,138,500        | 1,099,990,200        | 189,243,900        | 189,181,100        | 176,537,100        | 248,597,500        | 1         |
| 63,596,400         | 109,397,900          | 16,437,800         | 10,342,600         | 13,434,500         | 24,705,300         | 2         |
| 7,565,000          | 10,646,300           | 1,281,400          | 1,773,700          | 1,856,900          | 2,611,400          | 3         |
| 9,400,200          | -                    | 3,716,800          | -                  | 5,913,400          | 4,808,200          | 4         |
| 1,646,700          | 3,461,500            | 557,200            | 600,500            | 898,900            | 829,800            | 5         |
| 13,299,800         | 24,085,200           | 3,304,200          | 2,376,300          | 2,916,400          | 3,918,500          | 6         |
| 1,849,700          | 17,340,100           | 3,346,100          | 1,031,700          | 1,608,500          | 2,856,100          | 7         |
| 14,800,000         | 33,900,000           | 3,400,000          | 1,900,000          | 3,000,000          | 5,800,000          | 8         |
| 917,000            | 991,300              | 353,800            | 632,800            | 91,000             | 399,300            | 9         |
| 1,600,000          | 6,000,000            | 1,000,000          | 700,000            | 1,000,000          | 1,100,000          | 10        |
| <b>765,813,300</b> | <b>1,305,812,500</b> | <b>222,641,200</b> | <b>208,538,700</b> | <b>207,256,700</b> | <b>295,626,100</b> | <b>11</b> |
| 538,245            | 814,129              | 149,541            | 200,430            | 174,764            | 181,218            | 12        |
| 1,423              | 1,604                | 1,489              | 1,040              | 1,186              | 1,631              | 13        |

Shipments in Canada, by Provinces and Business Groups, 1930.

| Ontario.             | Manitoba.          | Saskatchewan.      | Alberta.           | British Columbia.  | Yukon and Northwest Territories. | Canada.              | No. |
|----------------------|--------------------|--------------------|--------------------|--------------------|----------------------------------|----------------------|-----|
| 14,263               | 2,249              | 2,046              | 2,153              | 3,476              | 9                                | 44,665               | 1   |
| 255,936,200          | 27,410,900         | 25,877,700         | 29,137,600         | 48,692,000         | 263,700                          | 615,476,100          |     |
| 2,662                | 852                | 1,641              | 1,200              | 814                | 18                               | 11,915               | 2   |
| 43,066,000           | 15,542,700         | 37,710,000         | 28,756,900         | 17,653,500         | 681,600                          | 228,803,800          |     |
| 979                  | 87                 | 71                 | 93                 | 202                | -                                | 2,974                | 3   |
| 180,383,600          | 64,344,000         | 20,102,400         | 23,198,500         | 45,862,100         | -                                | 451,542,500          |     |
| 5,481                | 758                | 1,382              | 1,115              | 1,122              | -                                | 13,194               | 4   |
| 167,410,500          | 20,605,500         | 27,048,700         | 31,120,100         | 34,122,100         | -                                | 381,959,300          |     |
| 4,484                | 432                | 373                | 489                | 772                | 2                                | 10,474               | 5   |
| 93,711,300           | 9,597,200          | 10,231,900         | 11,087,700         | 17,409,400         | 11,800                           | 219,968,600          |     |
| 2,030                | 417                | 1,276              | 762                | 379                | 5                                | 6,035                | 6   |
| 61,398,100           | 12,173,400         | 22,612,200         | 15,574,000         | 12,348,900         | 71,600                           | 162,237,100          |     |
| 1,429                | 101                | 142                | 156                | 301                | 1                                | 3,188                | 7   |
| 43,713,000           | 3,740,800          | 4,087,300          | 5,353,600          | 8,207,100          | 3,500                            | 101,665,900          |     |
| 2,306                | 338                | 506                | 483                | 634                | 3                                | 5,609                | 8   |
| 28,633,600           | 5,553,300          | 5,551,900          | 5,996,400          | 10,135,000         | 80,900                           | 75,977,100           |     |
| 8,694                | 1,484              | 3,333              | 2,018              | 1,570              | 92                               | 25,343               | 9   |
| 215,596,800          | 29,004,200         | 35,507,600         | 25,548,800         | 52,761,000         | 2,103,000                        | 506,126,900          |     |
| 717                  | 141                | 71                 | 123                | 231                | -                                | 1,606                | 10  |
| 5,141,100            | 1,271,900          | 451,400            | 763,500            | 1,406,400          | -                                | 11,812,600           |     |
| <b>43,045</b>        | <b>6,859</b>       | <b>10,841</b>      | <b>8,592</b>       | <b>9,501</b>       | <b>130</b>                       | <b>125,003</b>       |     |
| <b>1,099,990,200</b> | <b>189,243,900</b> | <b>189,181,100</b> | <b>176,537,100</b> | <b>248,597,500</b> | <b>3,216,100</b>                 | <b>2,755,569,900</b> |     |

## 35.—Summary Statistics of Retail Merchandising and Service Estab-

| No.                                             | Business Group.                                           | Prince<br>Edward<br>Island. | Nova Scotia.               | New<br>Brunswick.          | Quebec.                      |
|-------------------------------------------------|-----------------------------------------------------------|-----------------------------|----------------------------|----------------------------|------------------------------|
| SERVICE ESTABLISHMENTS.                         |                                                           |                             |                            |                            |                              |
| 11                                              | Amusement and recreation... Estab., No.<br>Receipts, \$   | 15<br>236,200               | 133<br>1,990,900           | 126<br>1,327,300           | 526<br>12,004,100            |
| 12                                              | Business services..... Estab., No.<br>Receipts, \$        | 1<br>7,000                  | 11<br>204,100              | 8<br>38,800                | 116<br>9,043,100             |
| 13                                              | Domestic services..... Estab., No.<br>Receipts, \$        | 20<br>77,900                | 147<br>941,000             | 110<br>633,400             | 1,165<br>9,654,700           |
| 14                                              | Educational services..... Estab., No.<br>Receipts, \$     | —<br>—                      | 8<br>56,100                | —<br>—                     | 32<br>318,400                |
| 15                                              | Personal services..... Estab., No.<br>Receipts, \$        | 65<br>77,600                | 343<br>711,100             | 358<br>594,100             | 2,944<br>6,357,100           |
| 16                                              | Photography..... Estab., No.<br>Receipts, \$              | 5<br>11,700                 | 33<br>159,500              | 26<br>158,200              | 197<br>1,185,200             |
| 17                                              | Undertaking and burial..... Estab., No.<br>Receipts, \$   | 14<br>28,400                | 47<br>344,800              | 38<br>159,400              | 255<br>2,366,303             |
| 18                                              | Repair and service shops..... Estab., No.<br>Receipts, \$ | 160<br>156,300              | 629<br>938,200             | 562<br>837,900             | 4,294<br>8,628,800           |
| 19                                              | Storage and transportation... Estab., No.<br>Receipts, \$ | 47<br>45,800                | 111<br>839,700             | 131<br>562,600             | 1,011<br>11,871,700          |
| 20                                              | Miscellaneous services..... Estab., No.<br>Receipts, \$   | 8<br>17,200                 | 42<br>167,700              | 34<br>81,400               | 376<br>2,167,000             |
| <b>Totals..... Estab., No.<br/>Receipts, \$</b> |                                                           | <b>335<br/>658,100</b>      | <b>1,504<br/>6,353,100</b> | <b>1,393<br/>4,393,100</b> | <b>10,916<br/>63,596,400</b> |

**Retail Merchandising by Provinces.**—The total sales made by 125,003 retail merchandising establishments in Canada in 1930 were \$2,755,569,900. In addition to these sales, the manufacturing bakeries and dairies reported retail sales of \$80,524,179, included in total retail trade (see Table 34 and chart on p. 673) but omitted in the figures of Table 36. Ontario led in amount of business with 39.92 p.c. of the total sales, although only 33.07 p.c. of the population of the Dominion resided in this province in 1931. On a per capita basis, retail merchandise sales show wide differences between provinces. The average for Canada on the basis of the 1931 population was \$265.55, but the per capita sales in Prince Edward Island were \$156.45, and in British Columbia \$358.07. It should be noted, however, that in these figures no allowance is made for the mail order or other sales outside the province.

## 36.—Retail Merchandise Trade in Canada, by Provinces, 1930.

| Province.             | Stores.        | Proportion<br>of Total<br>Stores. | Employees.     |                | Salaries<br>and<br>Wages. | Net Sales.           | Proportion<br>of Total<br>Net<br>Sales. | Stocks on<br>Hand, End<br>of Year<br>(at Cost). |
|-----------------------|----------------|-----------------------------------|----------------|----------------|---------------------------|----------------------|-----------------------------------------|-------------------------------------------------|
|                       |                |                                   | Full-<br>Time. | Part-<br>Time. |                           |                      |                                         |                                                 |
|                       | No.            | p.c.                              | No.            | No.            | \$                        | \$                   | p.c.                                    | \$                                              |
| P.E. Island.....      | 851            | 0.68                              | 1,127          | 182            | 920,600                   | 13,773,700           | 0.50                                    | 3,359,400                                       |
| Nova Scotia.....      | 6,464          | 5.17                              | 8,226          | 1,200          | 7,269,900                 | 99,519,900           | 3.61                                    | 18,506,700                                      |
| New Brunswick.....    | 4,434          | 3.55                              | 6,854          | 782            | 6,408,200                 | 84,371,900           | 3.06                                    | 14,806,700                                      |
| Quebec.....           | 34,286         | 27.43                             | 62,900         | 7,810          | 61,758,400                | 651,138,500          | 23.63                                   | 119,843,700                                     |
| Ontario.....          | 43,045         | 34.44                             | 94,184         | 16,929         | 106,538,900               | 1,099,990,200        | 39.92                                   | 177,112,500                                     |
| Manitoba.....         | 6,859          | 5.49                              | 17,806         | 1,956          | 19,597,800                | 189,243,900          | 6.87                                    | 28,253,700                                      |
| Saskatchewan.....     | 10,841         | 8.67                              | 13,097         | 2,528          | 14,916,300                | 189,181,100          | 6.86                                    | 43,153,400                                      |
| Alberta.....          | 8,592          | 6.87                              | 13,077         | 1,944          | 15,563,100                | 176,537,100          | 6.41                                    | 35,800,500                                      |
| British Columbia..... | 9,501          | 7.60                              | 21,188         | 3,275          | 24,521,300                | 248,597,500          | 9.02                                    | 41,055,300                                      |
| Yukon and N.W.T.....  | 130            | 0.10                              | 224            | 170            | 361,100                   | 3,216,100            | 0.12                                    | 1,735,600                                       |
| <b>Canada.....</b>    | <b>125,003</b> | <b>100.00</b>                     | <b>238,683</b> | <b>36,776</b>  | <b>257,855,600</b>        | <b>2,755,569,900</b> | <b>100.00</b>                           | <b>483,627,500</b>                              |



**lishments in Canada, by Provinces and Business Groups, 1930—concluded.**

| Ontario.    | Manitoba.  | Saskatchewan. | Alberta.   | British Columbia. | Yukon and Northwest Territories. | Canada.     | No. |
|-------------|------------|---------------|------------|-------------------|----------------------------------|-------------|-----|
| 1,166       | 220        | 469           | 330        | 313               | 2                                | 3,300       | 11  |
| 21,840,800  | 4,002,900  | 2,918,300     | 3,279,600  | 5,621,400         | 10,000                           | 53,231,500  |     |
| 207         | 26         | 18            | 27         | 62                | —                                | 476         | 12  |
| 16,643,400  | 1,080,600  | 254,400       | 808,300    | 1,329,600         | —                                | 29,409,300  |     |
| 1,953       | 300        | 318           | 323        | 544               | 4                                | 4,884       | 13  |
| 15,039,800  | 2,754,900  | 1,318,700     | 1,861,200  | 4,414,200         | 15,600                           | 36,711,400  |     |
| 63          | 14         | 13            | 14         | 25                | —                                | 169         | 14  |
| 850,000     | 309,900    | 67,300        | 109,700    | 144,700           | —                                | 1,856,100   |     |
| 4,148       | 560        | 683           | 594        | 884               | 4                                | 10,583      | 15  |
| 10,497,700  | 1,340,900  | 1,394,600     | 1,339,400  | 2,141,400         | 6,600                            | 24,460,500  |     |
| 317         | 54         | 56            | 60         | 109               | —                                | 857         | 16  |
| 2,051,600   | 318,700    | 268,100       | 363,100    | 562,500           | —                                | 5,078,600   |     |
| 319         | 34         | 50            | 54         | 48                | 1                                | 860         | 17  |
| 4,186,200   | 422,200    | 394,100       | 498,800    | 898,600           | 1,000                            | 9,299,800   |     |
| 4,510       | 881        | 1,335         | 952        | 839               | 5                                | 14,167      | 18  |
| 12,186,000  | 1,761,800  | 1,743,900     | 1,899,900  | 2,515,800         | 6,700                            | 30,675,300  |     |
| 2,427       | 293        | 506           | 380        | 437               | 3                                | 5,346       | 19  |
| 23,207,600  | 3,961,700  | 1,631,600     | 2,809,200  | 5,926,300         | 97,200                           | 50,953,400  |     |
| 456         | 111        | 210           | 147        | 197               | —                                | 1,581       | 20  |
| 2,894,800   | 484,200    | 351,600       | 465,300    | 1,150,800         | —                                | 7,780,000   |     |
| 15,566      | 2,493      | 3,458         | 2,881      | 3,458             | 19                               | 42,223      |     |
| 109,397,900 | 16,437,800 | 10,342,600    | 13,434,500 | 21,705,300        | 137,100                          | 249,455,900 |     |

In Table 37 retail stores have been grouped according to the value of net sales in 1930. Of the total number of stores classified in this way, 38.38 p.c. had sales of less than \$5,000 in 1930, while 18.21 p.c. had sales between \$5,000 and \$9,999. The combined sales of these two groups formed less than 10 p.c. of the total sales in that year. On the other hand, there were only 86 stores with a turnover of \$1,000,000 or more, but these establishments handled 14.25 p.c. of the total retail merchandise trade. These very large stores are found chiefly in the general merchandise and automotive groups.

**Table 37.—Total Retail Merchandising Establishments Grouped According to Annual Net Sales, with Numbers and Proportions of Full-Time Employees, Stores and Sales in Each Class, and Average Number of Employees per Store, 1930.**

| Annual Net Sales.              | Stores.        | Net Sales.           | Full-Time Employees. | Average Em-<br>ployees<br>per<br>Store. | Percentages to Totals. |               |               |
|--------------------------------|----------------|----------------------|----------------------|-----------------------------------------|------------------------|---------------|---------------|
|                                |                |                      |                      |                                         | Em-<br>ployees.        | Stores.       | Net<br>Sales. |
|                                | No.            | \$                   | No.                  | No.                                     | p.c.                   | p.c.          | p.c.          |
| Less than \$5,000.....         | 47,532         | 95,355,000           | 8,205                | 0.17                                    | 23.52                  | 38.38         | 3.56          |
| \$5,000—\$9,999.....           | 22,548         | 159,461,000          | 14,806               | 0.66                                    | 6.35                   | 18.21         | 5.95          |
| \$10,000—\$19,999.....         | 23,438         | 328,605,000          | 29,684               | 1.27                                    | 12.74                  | 18.93         | 12.26         |
| \$20,000—\$29,999.....         | 11,583         | 278,575,000          | 23,481               | 2.03                                    | 10.07                  | 9.35          | 10.39         |
| \$30,000—\$49,999.....         | 9,431          | 356,729,000          | 29,322               | 3.11                                    | 12.58                  | 7.62          | 13.30         |
| \$50,000—\$99,999.....         | 5,979          | 407,305,000          | 33,118               | 5.54                                    | 14.21                  | 4.83          | 15.19         |
| \$100,000—\$199,999.....       | 2,145          | 288,712,000          | 23,251               | 10.84                                   | 9.98                   | 1.73          | 10.77         |
| \$200,000—\$299,999.....       | 545            | 130,651,000          | 9,928                | 18.22                                   | 4.26                   | 0.44          | 4.87          |
| \$300,000—\$499,999.....       | 388            | 144,308,000          | 10,296               | 26.54                                   | 4.42                   | 0.31          | 5.38          |
| \$500,000—\$999,999.....       | 164            | 109,514,000          | 7,669                | 46.76                                   | 3.29                   | 0.13          | 4.08          |
| \$1,000,000 or over.....       | 86             | 382,018,000          | 43,298               | 503.47                                  | 18.58                  | 0.07          | 14.25         |
| <b>Totals<sup>1</sup>.....</b> | <b>123,839</b> | <b>2,681,204,000</b> | <b>233,058</b>       | <b>1.88</b>                             | <b>100.00</b>          | <b>100.00</b> | <b>100.00</b> |

<sup>1</sup>In some cases only the net sales for a group of stores were reported instead of the volume of business for each unit. The figures for such establishments have not been included in the above table.

More than 16 p.c. of the total sales in 1930 were made by stores in the general merchandise group. The most important kinds of stores in this group were the department stores and the variety stores. The sales of food stores, of which the most numerous and important are the grocery stores, formed 22.33 p.c. of the total, while those of the automotive group accounted for 13.86 p.c. While such proportions are indicative of the sales of commodities, they do not furnish an accurate guide to commodity sales. Few stores restrict their sales to one line of goods and some kinds of stores handle a wide variety of merchandise. Department and general stores, as is well known, deal in many commodities, but there are other stores which also carry many lines of goods. The figures that are given in Table 38 show the retail merchandise trade by groups and kinds of business.

### 38.—Retail Merchandise Trade in Canada, by Group and Kind of Business, 1930.

| Group and Kind of Business.                              | Stores.       | Employees.    |              | Salaries and Wages. | Net Sales.         | Stocks on Hand, End of Year (at Cost). |
|----------------------------------------------------------|---------------|---------------|--------------|---------------------|--------------------|----------------------------------------|
|                                                          |               | Full-Time.    | Part-Time.   |                     |                    |                                        |
| Food.                                                    | No.           | No.           | No.          | \$                  | \$                 | \$                                     |
| Bakeries—Caterers—                                       |               |               |              |                     |                    |                                        |
| Bakeries and bakery products <sup>1</sup> .....          | 1,213         | 2,217         | 221          | 1,836,300           | 11,027,600         | 335,600                                |
| Caterers.....                                            | 6             | 5             | 9            | 6,400               | 94,300             | 3,200                                  |
| Candy and Confectionery Stores—                          |               |               |              |                     |                    |                                        |
| Candy stores—nut stores.....                             | 212           | 526           | 54           | 393,600             | 3,518,600          | 93,900                                 |
| Confectionery stores.....                                | 8,769         | 4,460         | 985          | 3,219,600           | 50,657,500         | 4,985,800                              |
| Dairy Products Dealers—                                  |               |               |              |                     |                    |                                        |
| Dairy products stores.....                               | 179           | 285           | 35           | 273,600             | 5,280,600          | 109,800                                |
| Eggs and poultry stores.....                             | 190           | 101           | 33           | 99,000              | 1,883,200          | 126,200                                |
| Milk dealers <sup>2</sup> .....                          | 3,114         | 4,424         | 145          | 4,668,500           | 30,010,100         | 312,800                                |
| Delicatessen stores.....                                 | 213           | 265           | 42           | 194,400             | 2,570,600          | 114,800                                |
| Fruit and vegetable stores.....                          | 1,515         | 1,181         | 303          | 893,500             | 16,293,400         | 842,100                                |
| Grocery stores (without meat).....                       | 18,166        | 13,600        | 3,465        | 11,473,500          | 243,699,300        | 25,004,000                             |
| Combination Stores—                                      |               |               |              |                     |                    |                                        |
| Grocery stores with meats.....                           | 3,125         | 7,606         | 1,628        | 8,164,100           | 112,859,400        | 6,831,300                              |
| Meat markets with groceries.....                         | 2,037         | 3,855         | 503          | 3,477,200           | 48,844,700         | 2,786,200                              |
| Meat Markets (including Sea Foods)—                      |               |               |              |                     |                    |                                        |
| Meat markets.....                                        | 5,017         | 6,080         | 932          | 5,674,200           | 78,292,200         | 2,049,900                              |
| Fish markets.....                                        | 362           | 432           | 83           | 408,700             | 4,734,000          | 181,200                                |
| Other Food Stores—                                       |               |               |              |                     |                    |                                        |
| Coffee, tea, spices.....                                 | 132           | 326           | 29           | 395,300             | 2,527,900          | 448,800                                |
| Food stores with non-food departments.....               | 148           | 163           | 7            | 113,600             | 1,884,700          | 572,200                                |
| Bottled beverages.....                                   | 25            | 13            | 6            | 18,500              | 123,500            | 22,900                                 |
| Market stalls.....                                       | 242           | 76            | 98           | 74,100              | 1,174,500          | 40,900                                 |
| <b>Totals.....</b>                                       | <b>44,665</b> | <b>45,615</b> | <b>8,578</b> | <b>41,384,100</b>   | <b>615,476,100</b> | <b>44,861,600</b>                      |
| <b>COUNTRY GENERAL STORES.</b>                           |               |               |              |                     |                    |                                        |
| General stores—groceries with dry goods and apparel..... | 10,658        | 10,475        | 1,872        | 9,090,300           | 210,866,900        | 70,544,500                             |
| General stores—groceries with other merchandise.....     | 1,136         | 730           | 219          | 599,000             | 15,607,300         | 4,410,000                              |
| General stores without groceries.....                    | 121           | 168           | 16           | 142,900             | 2,329,600          | 1,162,200                              |
| <b>Totals.....</b>                                       | <b>11,915</b> | <b>11,373</b> | <b>2,107</b> | <b>9,832,200</b>    | <b>228,803,800</b> | <b>76,116,700</b>                      |
| <b>GENERAL MERCHANDISE.</b>                              |               |               |              |                     |                    |                                        |
| Department stores.....                                   | 148           | 42,163        | 3,657        | 47,657,600          | 355,258,600        | 51,451,500                             |
| Dry goods stores.....                                    | 1,899         | 3,008         | 550          | 2,583,000           | 31,705,600         | 14,127,400                             |
| General Merchandise Stores—                              |               |               |              |                     |                    |                                        |
| With food departments.....                               | 336           | 1,095         | 79           | 1,156,400           | 16,877,200         | 4,210,700                              |
| Without food departments.....                            | 78            | 321           | 16           | 340,500             | 3,488,900          | 1,317,500                              |
| Variety, 5-and-10, and to-a-dollar stores.....           | 513           | 5,293         | 3,428        | 4,718,200           | 44,212,200         | 6,244,000                              |
| <b>Totals.....</b>                                       | <b>2,974</b>  | <b>51,880</b> | <b>7,730</b> | <b>56,455,700</b>   | <b>451,542,500</b> | <b>77,351,100</b>                      |

<sup>1</sup>In addition, bakeries reporting to the Census of Industry had retail sales of \$51,604,889.

<sup>2</sup>In addition, dairies reporting to the Census of Industry had retail sales of \$23,919,290.

## 38.—Retail Merchandise Trade in Canada, by Group and Kind of Business, 1930—continued.

| Group and Kind of Business.                                            | Stores.       | Employees.    |              | Salaries and Wages. | Net Sales.         | Stocks on Hand, End of Year (at Cost). |
|------------------------------------------------------------------------|---------------|---------------|--------------|---------------------|--------------------|----------------------------------------|
|                                                                        |               | Full-Time.    | Part-Time.   |                     |                    |                                        |
|                                                                        | No.           | No.           | No.          | \$                  | \$                 | \$                                     |
| <b>AUTOMOTIVE.</b>                                                     |               |               |              |                     |                    |                                        |
| Motor Vehicle Dealers—                                                 |               |               |              |                     |                    |                                        |
| Automobile dealers.....                                                | 2,350         | 15,286        | 730          | 21,804,500          | 242,613,700        | 26,419,600                             |
| Automobile dealers with farm implements.....                           | 294           | 530           | 100          | 660,500             | 8,965,700          | 1,714,700                              |
| Used car establishments.....                                           | 92            | 157           | 24           | 172,200             | 2,028,500          | 219,100                                |
| Accessories, Tires and Batteries—                                      |               |               |              |                     |                    |                                        |
| Accessories, tires and batteries.....                                  | 326           | 690           | 70           | 856,400             | 6,280,600          | 1,181,600                              |
| Tire shops.....                                                        | 206           | 306           | 29           | 363,600             | 4,675,200          | 488,100                                |
| Filling Stations—                                                      |               |               |              |                     |                    |                                        |
| Filling stations.....                                                  | 1,934         | 1,873         | 212          | 2,067,500           | 22,820,400         | 816,600                                |
| Filling stations with tires and accessories.....                       | 2,295         | 3,054         | 525          | 3,363,600           | 36,970,400         | 1,765,900                              |
| Filling stations with other merchandise.....                           | 1,274         | 373           | 145          | 264,900             | 6,658,500          | 403,200                                |
| Garages.....                                                           | 4,140         | 5,486         | 796          | 5,849,600           | 47,559,800         | 3,953,400                              |
| Motorcycles, Bicycles, Supplies—                                       |               |               |              |                     |                    |                                        |
| Motorcycle dealers.....                                                | 14            | 37            | 1            | 55,500              | 450,100            | 107,600                                |
| Bicycles, motorcycles and supplies.....                                | 36            | 90            | 8            | 108,600             | 991,800            | 215,300                                |
| Bicycle dealers.....                                                   | 178           | 95            | 32           | 96,400              | 1,044,400          | 277,000                                |
| Other Automotive Establishments—                                       |               |               |              |                     |                    |                                        |
| Aircraft and accessories.....                                          | 4             | 13            | 4            | 21,200              | 137,400            | 70,700                                 |
| Boats (motorboats, canoes, yachts).....                                | 29            | 35            | 2            | 40,800              | 458,200            | 70,100                                 |
| Boats (gas, oil, accessories and repairs).....                         | 22            | 48            | 11           | 41,400              | 304,600            | 67,400                                 |
| <b>Totals.....</b>                                                     | <b>13,194</b> | <b>28,073</b> | <b>2,689</b> | <b>35,766,700</b>   | <b>381,959,300</b> | <b>37,770,300</b>                      |
| <b>APPAREL.</b>                                                        |               |               |              |                     |                    |                                        |
| Men's and Boys' Clothing and Furnishings Stores—                       |               |               |              |                     |                    |                                        |
| Men's and boys' clothing stores.....                                   | 194           | 385           | 69           | 577,900             | 6,075,000          | 1,417,200                              |
| Men's furnishings stores.....                                          | 582           | 516           | 190          | 626,400             | 8,976,000          | 3,683,300                              |
| Men's and boys' clothing and furnishings stores.....                   | 1,409         | 2,578         | 528          | 3,472,400           | 40,735,600         | 18,355,700                             |
| Men's and boys' hat stores.....                                        | 60            | 98            | 48           | 154,300             | 1,486,600          | 396,000                                |
| Family clothing stores.....                                            | 1,149         | 3,884         | 453          | 3,784,900           | 42,144,100         | 16,790,100                             |
| Women's Apparel and Accessories Stores—                                |               |               |              |                     |                    |                                        |
| Women's ready-to-wear stores.....                                      | 1,350         | 4,281         | 618          | 4,245,000           | 43,416,900         | 9,026,300                              |
| Hosiery, corsets, lingerie.....                                        | 353           | 443           | 114          | 453,300             | 5,317,900          | 1,495,700                              |
| Knit goods stores.....                                                 | 39            | 45            | 8            | 34,000              | 478,800            | 163,600                                |
| Costume accessories stores (including jewellery, bags and gloves)..... | 10            | 15            | 3            | 15,500              | 149,200            | 54,400                                 |
| Millinery stores.....                                                  | 1,340         | 1,104         | 276          | 842,000             | 6,748,300          | 1,015,100                              |
| Other Apparel Stores—                                                  |               |               |              |                     |                    |                                        |
| Custom tailors and made-to-measure clothing.....                       | 1,724         | 2,436         | 716          | 2,921,800           | 14,837,300         | 2,811,900                              |
| Dressmakers and ladies' tailors.....                                   | 191           | 382           | 67           | 345,900             | 1,278,000          | 222,200                                |
| Furriers—fur shops.....                                                | 339           | 1,408         | 170          | 1,728,700           | 11,694,500         | 3,708,100                              |
| Infants' and children's specialty shops.....                           | 93            | 82            | 19           | 71,000              | 722,400            | 318,900                                |
| Shoe Stores—                                                           |               |               |              |                     |                    |                                        |
| Shoe stores (men's).....                                               | 34            | 30            | 3            | 49,000              | 480,900            | 237,100                                |
| Shoe stores (women's).....                                             | 32            | 107           | 12           | 161,700             | 1,534,800          | 479,400                                |
| Shoe stores (men's, women's and children's).....                       | 1,575         | 2,359         | 732          | 3,108,400           | 33,892,300         | 13,690,200                             |
| <b>Totals.....</b>                                                     | <b>10,474</b> | <b>20,153</b> | <b>4,026</b> | <b>22,592,200</b>   | <b>219,968,600</b> | <b>73,865,200</b>                      |
| <b>BUILDING MATERIALS.</b>                                             |               |               |              |                     |                    |                                        |
| Hardware Stores—                                                       |               |               |              |                     |                    |                                        |
| Hardware stores.....                                                   | 2,780         | 5,050         | 451          | 5,667,300           | 66,174,200         | 26,400,200                             |
| Hardware and farm implements.....                                      | 221           | 227           | 61           | 246,800             | 4,717,500          | 1,750,900                              |
| Lumber and Building Material Dealers—                                  |               |               |              |                     |                    |                                        |
| Lumber and building materials.....                                     | 733           | 2,467         | 258          | 3,094,400           | 30,968,300         | 8,307,100                              |
| Lumber and building materials, coal and wood.....                      | 1,092         | 2,662         | 481          | 3,855,300           | 35,232,400         | 9,561,800                              |
| Roofing material dealers.....                                          | 48            | 54            | 20           | 71,800              | 592,200            | 62,900                                 |
| Other building materials.....                                          | 135           | 634           | 165          | 898,700             | 9,004,000          | 882,100                                |

### 38.—Retail Merchandise Trade in Canada, by Group and Kind of Business, 1930— continued.

| Group and Kind of Business.                                         | Stores.      | Employees.    |              | Salaries and Wages. | Net Sales.         | Stocks on Hand, End of Year (at Cost). |
|---------------------------------------------------------------------|--------------|---------------|--------------|---------------------|--------------------|----------------------------------------|
|                                                                     |              | Full-Time.    | Part-Time.   |                     |                    |                                        |
|                                                                     | No.          | No.           | No.          | \$                  | \$                 | \$                                     |
| <b>BUILDING MATERIALS—concluded.</b>                                |              |               |              |                     |                    |                                        |
| Electrical shops (without radio).....                               | 236          | 383           | 49           | 493,500             | 3,252,000          | 1,042,900                              |
| Heating and Plumbing Shops—                                         |              |               |              |                     |                    |                                        |
| Heating appliances and oil burners....                              | 79           | 348           | 44           | 485,800             | 2,432,300          | 280,600                                |
| Heating and plumbing fixtures.....                                  | 423          | 520           | 90           | 594,400             | 4,454,200          | 726,200                                |
| Paint and Glass Stores—                                             |              |               |              |                     |                    |                                        |
| Glass and mirror shops.....                                         | 31           | 133           | 14           | 193,400             | 688,100            | 131,700                                |
| Paint and glass stores.....                                         | 257          | 509           | 47           | 647,800             | 4,721,900          | 1,506,600                              |
| <b>Totals.....</b>                                                  | <b>6,035</b> | <b>12,987</b> | <b>1,680</b> | <b>16,249,200</b>   | <b>162,237,100</b> | <b>50,653,000</b>                      |
| <b>FURNITURE AND HOUSEHOLD.</b>                                     |              |               |              |                     |                    |                                        |
| Furniture Stores—                                                   |              |               |              |                     |                    |                                        |
| Furniture stores.....                                               | 784          | 2,938         | 174          | 4,082,300           | 36,119,600         | 10,815,200                             |
| Furniture and undertaker (rural).....                               | 317          | 337           | 82           | 367,900             | 4,896,900          | 1,915,700                              |
| Floor coverings, curtains, upholstery and interior decorations..... | 88           | 219           | 25           | 281,800             | 2,189,000          | 1,134,000                              |
| Household Appliance Stores—                                         |              |               |              |                     |                    |                                        |
| Household appliance stores.....                                     | 119          | 1,087         | 8            | 1,353,800           | 2,797,200          | 691,900                                |
| Household appliance stores (gas or electric).....                   | 204          | 1,397         | 85           | 1,777,400           | 7,106,500          | 1,124,700                              |
| Household appliance stores (owned by utility companies).....        | 248          | 783           | 174          | 1,052,200           | 6,996,000          | 1,729,400                              |
| Refrigeration dealers.....                                          | 19           | 87            | 5            | 94,200              | 898,500            | 94,500                                 |
| Other Home Furnishings and Appliances Stores—                       |              |               |              |                     |                    |                                        |
| Antique shops.....                                                  | 89           | 140           | 24           | 167,900             | 1,219,300          | 1,090,700                              |
| Awnings, flags, banners, window shades and tents.....               | 18           | 29            | 13           | 28,900              | 149,100            | 30,900                                 |
| Brushes and brooms.....                                             | 9            | 5             | —            | 4,700               | 44,900             | 7,900                                  |
| China, glassware, crockery, etc.....                                | 128          | 343           | 29           | 424,200             | 2,155,800          | 950,000                                |
| Interior decorations (specialty stores).....                        | 7            | 22            | —            | 14,800              | 111,500            | 28,000                                 |
| Lamps and shades (specialty stores).....                            | 15           | 12            | —            | 8,200               | 64,200             | 16,700                                 |
| Pictures and picture framing.....                                   | 96           | 236           | 23           | 323,000             | 1,148,600          | 492,300                                |
| Stoves and ranges.....                                              | 109          | 210           | 33           | 275,600             | 1,874,600          | 488,100                                |
| Radio and Music Stores—                                             |              |               |              |                     |                    |                                        |
| Radio specialty stores.....                                         | 220          | 335           | 44           | 411,600             | 4,394,900          | 664,600                                |
| Radio and electrical shops (including refrigeration).....           | 341          | 796           | 129          | 929,100             | 9,132,900          | 1,499,200                              |
| Radio and music stores (including refrigeration).....               | 377          | 1,967         | 109          | 2,928,400           | 20,336,400         | 3,664,400                              |
| <b>Totals.....</b>                                                  | <b>3,188</b> | <b>10,943</b> | <b>957</b>   | <b>14,526,000</b>   | <b>101,665,900</b> | <b>26,438,290</b>                      |
| <b>RESTAURANTS, CAFETERIAS AND OTHER EATING PLACES.</b>             |              |               |              |                     |                    |                                        |
| Restaurants, Cafeterias and Lunch Rooms—                            |              |               |              |                     |                    |                                        |
| Cafeterias only.....                                                | 62           | 1,078         | 81           | 1,009,000           | 4,084,200          | 104,700                                |
| Cafes (including confectionery).....                                | 956          | 3,021         | 178          | 2,243,800           | 13,726,800         | 605,500                                |
| Lunch rooms.....                                                    | 492          | 2,390         | 116          | 2,043,700           | 9,992,500          | 211,700                                |
| Restaurants (table service).....                                    | 2,185        | 9,830         | 466          | 7,140,000           | 36,288,500         | 665,200                                |
| Other Eating Places—                                                |              |               |              |                     |                    |                                        |
| Cafes with groceries.....                                           | 97           | 131           | 14           | 81,600              | 904,200            | 79,200                                 |
| Lunch counters and restaurants (10 seats and under).....            | 918          | 960           | 158          | 597,400             | 4,749,400          | 124,800                                |
| Refreshment booths and soft drink stands.....                       | 433          | 204           | 114          | 109,200             | 970,100            | 39,600                                 |
| Sandwich shops.....                                                 | 147          | 616           | 120          | 502,800             | 2,886,900          | 44,200                                 |
| Tea rooms and light lunches.....                                    | 319          | 608           | 145          | 397,800             | 2,374,500          | 80,000                                 |
| <b>Totals.....</b>                                                  | <b>5,609</b> | <b>18,838</b> | <b>1,392</b> | <b>14,125,300</b>   | <b>75,977,100</b>  | <b>1,954,900</b>                       |
| <b>OTHER RETAIL STORES.</b>                                         |              |               |              |                     |                    |                                        |
| Farm Implements—                                                    |              |               |              |                     |                    |                                        |
| Farm implement dealers.....                                         | 475          | 371           | 135          | 525,500             | 7,253,700          | 1,712,300                              |
| Farm implement agents.....                                          | 5,078        | 315           | 186          | 279,700             | 14,317,300         | 1,671,000                              |
| Farmers' Supplies—                                                  |              |               |              |                     |                    |                                        |
| Feed stores (flour, feed, grain, fertilizer).....                   | 802          | 1,215         | 167          | 1,386,100           | 27,833,800         | 3,425,300                              |
| Farmers' supply stores.....                                         | 209          | 330           | 68           | 356,300             | 6,530,300          | 1,472,400                              |
| Feed and coal stores.....                                           | 169          | 331           | 90           | 339,600             | 6,166,900          | 608,900                                |
| Grain elevators (coal and feed).....                                | 1,170        | 172           | 524          | 316,700             | 3,276,700          | 527,600                                |
| Harness shops.....                                                  | 601          | 126           | 27           | 114,700             | 1,902,300          | 936,500                                |



## 38.—Retail Merchandise Trade in Canada, by Group and Kind of Business, 1930—concluded.

| Group and Kind of Business.                                     | Stores.        | Employees.     |               | Salaries and Wages. | Net Sales.           | Stocks on Hand, End of Year (at Cost). |
|-----------------------------------------------------------------|----------------|----------------|---------------|---------------------|----------------------|----------------------------------------|
|                                                                 |                | Full-Time.     | Part-Time.    |                     |                      |                                        |
|                                                                 | No.            | No.            | No.           | \$                  | \$                   | \$                                     |
| <b>OTHER RETAIL STORES—concluded.</b>                           |                |                |               |                     |                      |                                        |
| Book stores.....                                                | 358            | 1,226          | 137           | 1,419,800           | 8,837,500            | 3,401,000                              |
| Coal and Wood Yards—Ice Dealers—                                |                |                |               |                     |                      |                                        |
| Coal and wood yards (including ice).....                        | 2,071          | 6,251          | 1,762         | 7,929,600           | 86,046,800           | 6,619,900                              |
| Ice dealers.....                                                | 271            | 1,106          | 306           | 1,254,600           | 4,144,900            | 342,200                                |
| Drug stores.....                                                | 3,559          | 7,325          | 1,076         | 7,608,400           | 76,848,900           | 23,366,400                             |
| Florists.....                                                   | 689            | 1,488          | 278           | 1,577,700           | 9,264,700            | 858,100                                |
| Gifts, Novelties, Toys, Cameras—                                |                |                |               |                     |                      |                                        |
| Art and gift shops.....                                         | 146            | 152            | 34            | 141,100             | 1,388,700            | 583,900                                |
| Toy shops.....                                                  | 9              | 9              | 7             | 7,100               | 98,300               | 36,800                                 |
| Novelty and souvenir shops.....                                 | 131            | 189            | 43            | 148,300             | 1,263,400            | 606,200                                |
| Cameras and photographic stores.....                            | 49             | 189            | 18            | 236,000             | 1,717,800            | 346,300                                |
| Jewellery Stores—                                               |                |                |               |                     |                      |                                        |
| Jewellery stores.....                                           | 1,509          | 2,586          | 284           | 3,269,700           | 24,899,900           | 14,999,300                             |
| Jewellery stores (instalment credit).....                       | 23             | 171            | 61            | 224,600             | 1,762,700            | 195,600                                |
| Luggage and Leather Goods Stores—                               |                |                |               |                     |                      |                                        |
| Luggage and leather goods stores.....                           | 75             | 177            | 55            | 212,500             | 1,730,500            | 656,900                                |
| Leather and leather findings.....                               | 14             | 12             | 2             | 14,400              | 153,900              | 41,700                                 |
| Music stores (without radio).....                               | 84             | 106            | 5             | 141,300             | 1,099,700            | 575,800                                |
| News Dealers—                                                   |                |                |               |                     |                      |                                        |
| News dealers (tobacco and confectionery).....                   | 275            | 487            | 54            | 315,000             | 3,329,500            | 418,000                                |
| News dealers (stationery and novelties).....                    | 295            | 382            | 155           | 336,300             | 3,095,100            | 900,300                                |
| Office, School and Store Supplies and Equipment Dealers—        |                |                |               |                     |                      |                                        |
| Office and school supplies.....                                 | 67             | 299            | 11            | 371,000             | 2,225,900            | 543,900                                |
| Office, store and school furniture, equipment and supplies..... | 89             | 615            | 31            | 1,022,200           | 6,312,900            | 1,329,700                              |
| Office and store mechanical appliances.....                     | 162            | 961            | 20            | 1,736,800           | 7,494,600            | 1,419,300                              |
| Typewriter dealers.....                                         | 77             | 830            | 5             | 1,291,400           | 3,796,500            | 1,076,800                              |
| Opticians and optometrists.....                                 | 323            | 341            | 31            | 475,200             | 3,180,200            | 516,000                                |
| Sporting goods stores.....                                      | 122            | 254            | 30            | 349,700             | 3,678,600            | 950,800                                |
| Scientific and medical instruments.....                         | 42             | 211            | 5             | 270,100             | 1,735,900            | 538,400                                |
| Tobacco Stores and Stands—                                      |                |                |               |                     |                      |                                        |
| Tobacco stands (hotel lobbies, etc.).....                       | 747            | 617            | 142           | 599,300             | 5,846,200            | 665,400                                |
| Tobacco stores with news-stands.....                            | 568            | 396            | 80            | 341,600             | 7,207,900            | 1,066,400                              |
| Tobacco stores.....                                             | 471            | 674            | 19            | 869,300             | 10,683,500           | 1,394,900                              |
| Tobacco stores with foods.....                                  | 634            | 378            | 64            | 341,700             | 6,965,200            | 932,900                                |
| Miscellaneous Classifications—                                  |                |                |               |                     |                      |                                        |
| Brewers' warehouses.....                                        | 111            | 494            | 45            | 578,100             | 14,894,400           | 965,200                                |
| Government liquor stores.....                                   | 651            | 2,479          | 143           | 4,070,600           | 100,821,100          | 5,443,000                              |
| Monuments and stones.....                                       | 177            | 303            | 46            | 370,300             | 1,709,700            | 507,300                                |
| Other wine and liquor stores.....                               | 22             | 47             | 22            | 59,600              | 719,000              | 197,300                                |
| Patent medicines, remedies, perfumes, etc.....                  | 1,446          | 106            | 22            | 90,000              | 3,846,000            | 559,600                                |
| Taverns.....                                                    | 421            | 1,792          | 186           | 1,978,100           | 10,320,600           | 267,100                                |
| Miscellaneous kinds of business (n.o.s.).....                   | 1,151          | 2,162          | 1,000         | 2,809,600           | 21,724,900           | 8,356,600                              |
| <b>Totals.....</b>                                              | <b>25,343</b>  | <b>37,675</b>  | <b>7,376</b>  | <b>45,779,690</b>   | <b>506,126,900</b>   | <b>91,033,000</b>                      |
| <b>SECOND-HAND STORES.</b>                                      |                |                |               |                     |                      |                                        |
| Automobile parts and accessories.....                           | 159            | 256            | 36            | 271,500             | 1,522,900            | 443,500                                |
| Clothing and shoe stores.....                                   | 273            | 100            | 15            | 94,000              | 1,213,800            | 384,100                                |
| Furniture stores.....                                           | 479            | 203            | 42            | 213,900             | 2,799,000            | 830,000                                |
| Other second-hand stores.....                                   | 695            | 587            | 148           | 565,200             | 6,276,900            | 1,925,900                              |
| <b>Totals.....</b>                                              | <b>1,606</b>   | <b>1,146</b>   | <b>241</b>    | <b>1,144,600</b>    | <b>11,812,600</b>    | <b>3,583,500</b>                       |
| <b>Grand Totals.....</b>                                        | <b>125,003</b> | <b>238,683</b> | <b>36,776</b> | <b>257,855,600</b>  | <b>2,755,569,900</b> | <b>483,627,500</b>                     |

Retail merchandising in Canada is analysed by type of operation in Table 39. This analysis is first applied to all retail stores and, following this, to some particular kinds of retail business which have been most subject to chain system organization. Single stores under independent ownership accounted for 70.44 p.c. of the total retail merchandise sales in 1930. Included in this percentage are the sales of single stores in voluntary chains or co-operative buying organizations, which amounted

to 4.32 p.c. of the total. The sales of the units of provincial, sectional and national chains were 16.53 p.c. of the total and those of local chains 2.55 p.c. Two- and three-store multiples accounted for 7.98 p.c. of the total sales. For certain of the larger cities, the business of department stores belonging to national organizations has been taken with that of independent stores.

### 39.—Types of Operation of Stores Engaged in Retail Merchandising in Canada, 1930.

| Type of Operation.                                         | Stores.        | Full-Time Employees. |               |                     | Net Sales.           | Proportion of Net Sales. |
|------------------------------------------------------------|----------------|----------------------|---------------|---------------------|----------------------|--------------------------|
|                                                            |                | Male.                | Female.       | Salaries and Wages. |                      |                          |
|                                                            | No.            | No.                  | No.           | \$                  | \$                   | p.c.                     |
| <b>ALL STORES.</b>                                         |                |                      |               |                     |                      |                          |
| Single store independents.....                             | 101,117        | 110,645              | 49,198        | 158,478,000         | 1,822,087,100        | 66.12                    |
| Single stores (in voluntary chains).....                   | 4,753          | 5,750                | 1,458         | 5,905,100           | 119,030,400          | 4.32                     |
| Two-store multiples.....                                   | 3,391          | 10,224               | 3,271         | 15,507,600          | 147,613,200          | 5.36                     |
| Two-store multiples (in voluntary chains).....             | 186            | 341                  | 87            | 380,900             | 5,592,700            | 0.20                     |
| Three-store multiples.....                                 | 1,231          | 4,458                | 1,969         | 7,372,900           | 64,736,300           | 2.35                     |
| Three-store multiples (in voluntary chains).....           | 49             | 103                  | 28            | 127,000             | 1,924,500            | 0.07                     |
| Local chains (4 stores and over).....                      | 1,840          | 4,771                | 1,818         | 7,234,500           | 70,151,000           | 2.55                     |
| Provincial chains.....                                     | 2,893          | 8,314                | 2,604         | 13,970,300          | 207,462,800          | 7.53                     |
| Sectional chains.....                                      | 1,624          | 6,929                | 4,274         | 12,634,400          | 102,310,700          | 3.71                     |
| National chains.....                                       | 2,230          | 7,532                | 6,850         | 15,394,300          | 145,717,500          | 5.29                     |
| Manufacturer-controlled chains (provincial).....           | 32             | 165                  | 8             | 224,800             | 3,426,400            | 0.12                     |
| Manufacturer-controlled chains (sectional).....            | 40             | 163                  | 45            | 301,400             | 1,776,500            | 0.06                     |
| Manufacturer-controlled chains (national).....             | 375            | 4,179                | 609           | 7,363,000           | 32,233,100           | 1.17                     |
| Direct selling (house to house).....                       | 2,041          | 496                  | 29            | 429,900             | 7,102,600            | 0.26                     |
| Industrial stores (owned by manufacturers).....            | 176            | 517                  | 105           | 813,600             | 10,462,800           | 0.38                     |
| Leased concessions (hotels).....                           | 131            | 175                  | 141           | 253,500             | 1,901,100            | 0.07                     |
| Leased departments.....                                    | 18             | 38                   | 19            | 67,600              | 671,600              | 0.02                     |
| Line elevators (coal and feed).....                        | 1,148          | 152                  | —             | 159,500             | 2,982,100            | 0.11                     |
| Mail order houses (apart from stores).....                 | 35             | 140                  | 144           | 324,500             | 3,007,500            | 0.11                     |
| Producer-retailers of milk.....                            | 2,192          | 909                  | 25            | 427,700             | 5,371,800            | 0.20                     |
| Other types of operation.....                              | 1              | —                    | —             | —                   | 8,200                | —                        |
| <b>Totals.....</b>                                         | <b>125,003</b> | <b>166,001</b>       | <b>72,682</b> | <b>247,370,500</b>  | <b>2,755,569,900</b> | <b>100.00</b>            |
| <b>VARIETY, 5-AND-10, AND TO-A-DOLLAR STORES.</b>          |                |                      |               |                     |                      |                          |
| Single store independents.....                             | 146            | 77                   | 151           | 152,500             | 2,042,900            | 4.62                     |
| Single stores (in voluntary chains).....                   | 9              | 2                    | 12            | 11,100              | 184,000              | 0.42                     |
| Two-store multiples.....                                   | 23             | —                    | —             | —                   | —                    | —                        |
| Three-store multiples.....                                 | 9              | 28                   | 66            | 64,000              | 603,800              | 1.37                     |
| Local chains (4 stores and over).....                      | 17             | 44                   | 161           | 132,300             | 1,336,600            | 3.02                     |
| Provincial chains.....                                     | 55             | 99                   | 335           | 271,900             | 2,486,900            | 5.62                     |
| Sectional chains.....                                      | 21             | —                    | —             | —                   | —                    | —                        |
| National chains.....                                       | 233            | 825                  | 3,493         | 3,515,900           | 37,558,000           | 84.95                    |
| <b>Totals.....</b>                                         | <b>513</b>     | <b>1,075</b>         | <b>4,218</b>  | <b>4,147,700</b>    | <b>44,212,200</b>    | <b>100.00</b>            |
| <b>WOMEN'S APPAREL AND ACCESSORIES STORES.<sup>1</sup></b> |                |                      |               |                     |                      |                          |
| Single store independents.....                             | 1,376          | 504                  | 2,459         | 2,765,000           | 32,544,500           | 65.93                    |
| Two-store multiples.....                                   | 152            | 172                  | 380           | 587,600             | 5,429,900            | 11.00                    |
| Three-store multiples.....                                 | 63             | 79                   | 421           | 410,100             | 3,382,600            | 6.85                     |
| Local chains (4 stores and over).....                      | 30             | 11                   | 81            | 86,800              | 1,147,400            | 2.32                     |
| Provincial chains.....                                     | 47             | 31                   | 140           | 175,500             | 1,658,100            | 3.36                     |
| Sectional chains.....                                      | 15             | —                    | —             | —                   | —                    | —                        |
| National chains.....                                       | 56             | 67                   | 413           | 454,600             | 5,014,700            | 10.16                    |
| Other types of operation.....                              | 13             | 19                   | 7             | 40,900              | 185,600              | 0.38                     |
| <b>Totals.....</b>                                         | <b>1,752</b>   | <b>883</b>           | <b>3,901</b>  | <b>4,520,500</b>    | <b>49,362,800</b>    | <b>100.00</b>            |
| <b>SHOE STORES.</b>                                        |                |                      |               |                     |                      |                          |
| Single store independents.....                             | 1,180          | 996                  | 277           | 1,458,500           | 19,134,200           | 53.29                    |
| Single stores (in voluntary chains).....                   | 89             | 138                  | 45            | 219,800             | 2,826,400            | 7.87                     |
| Two-store multiples.....                                   | 89             | 165                  | 35            | 292,400             | 3,113,200            | 8.67                     |
| Three-store multiples.....                                 | 75             | 196                  | 55            | 306,300             | 2,669,100            | 7.43                     |
| Local chains (4 stores and over).....                      | 86             | 232                  | 18            | 363,600             | 4,232,900            | 11.79                    |
| Provincial chains.....                                     | 56             | —                    | —             | —                   | —                    | —                        |
| Sectional chains.....                                      | 5              | 236                  | 42            | 387,500             | 3,341,700            | 9.31                     |
| National chains.....                                       | 51             | —                    | —             | —                   | —                    | —                        |
| Other types of operation.....                              | 10             | 50                   | 11            | 97,700              | 590,500              | 1.64                     |
| <b>Totals.....</b>                                         | <b>1,641</b>   | <b>2,013</b>         | <b>483</b>    | <b>3,125,800</b>    | <b>35,908,000</b>    | <b>100.00</b>            |

<sup>1</sup>Exclusive of millinery stores.

### 39.—Types of Operation of Stores Engaged in Retail Merchandising in Canada, 1930 —concluded.

| Type of Operation.                                            | Stores. | Full-Time Employees. |        |                     | Net Sales.  | Proportion of Net Sales. |
|---------------------------------------------------------------|---------|----------------------|--------|---------------------|-------------|--------------------------|
|                                                               |         | Male.                | Female | Salaries and Wages. |             |                          |
| GROCERY STORES (WITHOUT MEATS).                               | No.     | No.                  | No.    | \$                  | \$          | p.c.                     |
| Single store independents.....                                | 14,421  | 5,123                | 1,634  | 4,514,900           | 126,303,400 | 51.83                    |
| Single stores (in voluntary chains).....                      | 2,079   | 2,090                | 460    | 1,829,000           | 41,295,700  | 16.94                    |
| Two-store multiples.....                                      | 195     | 265                  | 103    | 291,000             | 4,458,000   | 1.83                     |
| Three-store multiples.....                                    | 60      | 126                  | 31     | 140,800             | 1,981,500   | 0.83                     |
| Local chains (4 stores and over).....                         | 247     | 628                  | 206    | 709,000             | 10,093,300  | 4.14                     |
| Provincial chains.....                                        | 459     | 749                  | 561    | 1,467,800           | 30,721,300  | 12.61                    |
| Sectional chains.....                                         | 198     | 1,206                | 411    | 1,808,000           | 28,724,500  | 11.79                    |
| National chains.....                                          | 496     |                      |        |                     |             |                          |
| Other types of operation.....                                 | 11      | 6                    | 1      | 7,600               | 121,600     | 0.05                     |
| Totals.....                                                   | 18,166  | 10,193               | 3,407  | 10,768,100          | 243,699,300 | 100.00                   |
| COMBINATION STORES (GROCERIES AND MEATS).                     |         |                      |        |                     |             |                          |
| Single store independents.....                                | 3,489   | 4,514                | 710    | 4,353,900           | 73,551,100  | 45.50                    |
| Single stores (in voluntary chains).....                      | 789     | 1,579                | 280    | 1,677,400           | 26,647,200  | 16.48                    |
| Two-store multiples.....                                      | 145     | 393                  | 69     | 438,400             | 5,366,600   | 3.32                     |
| Three-store multiples.....                                    | 44      | 133                  | 41     | 171,300             | 2,355,900   | 1.46                     |
| Local chains (4 stores and over).....                         | 66      | 307                  | 80     | 400,300             | 4,123,900   | 2.55                     |
| Provincial chains.....                                        | 93      | 362                  | 145    | 500,100             | 6,579,900   | 4.07                     |
| Sectional chains.....                                         | 326     | 2,616                | 230    | 3,590,700           | 43,003,900  | 26.59                    |
| National chains.....                                          | 208     |                      |        |                     |             |                          |
| Other types of operation.....                                 | 2       | 2                    | —      | 3,100               | 45,600      | 0.03                     |
| Totals.....                                                   | 5,162   | 9,906                | 1,555  | 11,135,200          | 161,704,100 | 100.00                   |
| RESTAURANTS, CAFETERIAS AND OTHER EATING PLACES. <sup>1</sup> |         |                      |        |                     |             |                          |
| Single store independents.....                                | 4,650   | 7,233                | 5,587  | 8,801,300           | 53,021,100  | 71.55                    |
| Two-store multiples.....                                      | 112     | 792                  | 574    | 1,121,800           | 5,001,100   | 6.75                     |
| Three-store multiples.....                                    | 36      | 216                  | 245    | 342,800             | 1,662,500   | 2.24                     |
| Local chains (4 stores and over).....                         | 49      | 577                  | 290    | 917,000             | 3,670,500   | 4.95                     |
| Provincial chains.....                                        | 25      | 377                  | 130    | 521,300             | 2,234,600   | 3.02                     |
| Sectional chains.....                                         | 28      | 733                  | 670    | 1,183,800           | 4,790,500   | 6.47                     |
| National chains.....                                          | 138     | 238                  | 625    | 541,900             | 3,015,500   | 4.07                     |
| Leased concessions.....                                       | 39      | 100                  | 101    | 146,400             | 653,800     | 0.88                     |
| Other types of operation.....                                 | 2       | 5                    | 10     | 13,000              | 53,200      | 0.07                     |
| Totals.....                                                   | 5,079   | 10,271               | 8,232  | 13,589,300          | 74,102,800  | 100.00                   |
| FILLING STATIONS.                                             |         |                      |        |                     |             |                          |
| Single store independents.....                                | 4,574   | 2,548                | 154    | 2,389,600           | 44,039,200  | 66.28                    |
| Two-store multiples.....                                      | 129     | 323                  | 7      | 353,900             | 3,637,500   | 5.47                     |
| Three-store multiples.....                                    | 67      | 167                  | 10     | 199,200             | 2,294,100   | 3.45                     |
| Local chains (4 stores and over).....                         | 64      | 139                  | 2      | 140,100             | 1,762,800   | 2.65                     |
| Provincial chains.....                                        | 159     | 454                  | 6      | 524,600             | 3,445,500   | 5.19                     |
| Sectional chains.....                                         | 169     | 504                  | —      | 629,000             | 3,470,400   | 5.22                     |
| National chains.....                                          | 340     | 986                  | —      | 1,169,800           | 7,793,400   | 11.73                    |
| Other types of operation.....                                 | 1       | —                    | —      | —                   | 6,400       | 0.01                     |
| Totals.....                                                   | 5,503   | 5,121                | 179    | 5,406,200           | 66,449,300  | 100.00                   |
| DRUG STORES.                                                  |         |                      |        |                     |             |                          |
| Single store independents.....                                | 2,817   | 3,619                | 894    | 4,057,500           | 51,113,700  | 66.51                    |
| Single stores (in voluntary chains).....                      | 20      | 45                   | 3      | 39,000              | 488,800     | 0.64                     |
| Two-store multiples.....                                      | 319     | 777                  | 181    | 935,300             | 7,859,600   | 10.23                    |
| Three-store multiples.....                                    | 104     | 308                  | 65     | 408,800             | 2,897,300   | 3.76                     |
| Local chains (4 stores and over).....                         | 173     | 651                  | 140    | 897,300             | 6,834,400   | 8.89                     |
| Provincial chains.....                                        | 73      | 502                  | 118    | 939,600             | 7,439,200   | 9.68                     |
| Sectional chains.....                                         | 6       |                      |        |                     |             |                          |
| National chains.....                                          | 37      | 14                   | 8      | 24,300              | 225,900     | 0.29                     |
| Leased concessions and departments.....                       | 10      |                      |        |                     |             |                          |
| Totals.....                                                   | 3,559   | 5,916                | 1,409  | 7,301,800           | 76,848,900  | 100.00                   |

<sup>1</sup>Exclusive of cafés with groceries and refreshment booths.



*Retail Merchandise Trade of Canadian Cities.*—The retail merchandise trade in Canadian cities of over 10,000 population is shown in Table 40. The cities are arranged in descending order according to their 1931 census populations. A notable feature of these figures is the wide variation in different cities in the relationship between population and retail sales. In general, per capita sales are high for cities which form distributing centres for large or populous areas, while such sales are lowest in residential or industrial satellite cities adjacent to larger centres, as in the case of St. Boniface, Man., Sandwich, Ont., and Verdun, Outremont, Westmont and Hull, Que.

**40.—Retail Merchandise Trade in Cities of 10,000 Population and Over, 1930.**

| City.                  | Population,<br>1931. | Estab-<br>lish-<br>ments. | Full-Time Employees. |         |                           | Net<br>Sales. | Stocks on<br>Hand, End<br>of Year<br>(at Cost). |
|------------------------|----------------------|---------------------------|----------------------|---------|---------------------------|---------------|-------------------------------------------------|
|                        |                      |                           | Male.                | Female. | Salaries<br>and<br>Wages. |               |                                                 |
|                        | No.                  | No.                       | No.                  | No.     | \$                        | \$            | \$                                              |
| Montreal, Que.         | 818,577              | 11,959                    | 27,144               | 12,622  | 40,171,900                | 369,471,200   | 52,939,200                                      |
| Toronto, Ont.          | 631,207              | 8,725                     | 23,601               | 13,473  | 44,548,300                | 372,682,900   | 46,777,000                                      |
| Vancouver, B.C.        | 246,593              | 3,845                     | 7,911                | 4,288   | 13,516,200                | 122,830,900   | 18,660,700                                      |
| Winnipeg, Man.         | 218,785              | 2,486                     | 8,164                | 5,513   | 15,379,600                | 131,480,200   | 15,542,700                                      |
| Hamilton, Ont.         | 155,547              | 2,117                     | 3,831                | 2,082   | 6,528,500                 | 68,512,800    | 9,605,200                                       |
| Quebec, Que.           | 130,594              | 1,742                     | 3,824                | 1,437   | 4,696,900                 | 48,172,200    | 9,555,600                                       |
| Ottawa, Ont.           | 126,872              | 1,525                     | 3,896                | 1,978   | 6,205,700                 | 59,702,200    | 10,445,800                                      |
| Calgary, Alta.         | 83,761               | 1,136                     | 2,686                | 1,262   | 4,809,600                 | 43,389,800    | 7,143,100                                       |
| Edmonton, Alta.        | 79,197               | 1,054                     | 2,235                | 1,176   | 4,011,200                 | 37,555,900    | 6,202,600                                       |
| London, Ont.           | 71,148               | 1,074                     | 2,135                | 985     | 3,426,300                 | 35,596,000    | 4,883,600                                       |
| Windsor, Ont.          | 63,108               | 903                       | 1,938                | 615     | 3,300,600                 | 30,122,400    | 4,539,000                                       |
| Verdun, Que.           | 60,745               | 588                       | 938                  | 297     | 1,163,300                 | 12,774,300    | 1,678,100                                       |
| Halifax, N.S.          | 59,275               | 900                       | 1,682                | 1,125   | 2,709,300                 | 29,843,200    | 4,190,300                                       |
| Regina, Sask.          | 53,209               | 569                       | 2,016                | 951     | 3,407,200                 | 33,105,600    | 5,555,800                                       |
| Saint John, N.B.       | 47,514               | 822                       | 1,465                | 846     | 2,160,100                 | 21,435,100    | 3,233,700                                       |
| Saskatoon, Sask.       | 43,291               | 546                       | 1,536                | 760     | 2,639,500                 | 25,364,200    | 4,277,200                                       |
| Victoria, B.C.         | 39,082               | 809                       | 1,790                | 914     | 2,944,900                 | 27,108,500    | 4,998,900                                       |
| Three Rivers, Que.     | 35,450               | 456                       | 719                  | 312     | 960,100                   | 10,079,700    | 1,857,200                                       |
| Kitchener, Ont.        | 30,793               | 399                       | 725                  | 343     | 1,211,300                 | 13,770,500    | 2,005,700                                       |
| Brantford, Ont.        | 30,107               | 451                       | 809                  | 375     | 1,230,300                 | 13,966,900    | 1,937,100                                       |
| Hull, Que.             | 29,433               | 443                       | 645                  | 133     | 663,800                   | 7,776,900     | 1,319,300                                       |
| Sherbrooke, Que.       | 28,933               | 428                       | 737                  | 255     | 977,400                   | 10,959,900    | 2,050,600                                       |
| Outremont, Que.        | 28,641               | 129                       | 365                  | 45      | 455,100                   | 4,306,700     | 487,900                                         |
| Fort William, Ont.     | 26,277               | 333                       | 544                  | 300     | 830,300                   | 10,093,300    | 1,723,000                                       |
| St. Catharines, Ont.   | 24,753               | 437                       | 802                  | 383     | 1,328,500                 | 14,664,800    | 2,340,200                                       |
| Westmont, Que.         | 24,235               | 128                       | 504                  | 116     | 727,500                   | 6,330,100     | 600,500                                         |
| Kingston, Ont.         | 23,439               | 376                       | 858                  | 325     | 1,214,500                 | 12,873,200    | 2,079,000                                       |
| Oshawa, Ont.           | 23,439               | 278                       | 584                  | 159     | 802,900                   | 8,498,500     | 1,192,900                                       |
| Sydney, N.S.           | 23,089               | 340                       | 445                  | 258     | 637,100                   | 8,136,700     | 1,483,900                                       |
| Sault Ste. Marie, Ont. | 23,082               | 357                       | 436                  | 231     | 682,400                   | 9,984,500     | 1,783,400                                       |
| Peterborough, Ont.     | 22,327               | 383                       | 688                  | 317     | 969,500                   | 11,132,500    | 1,706,600                                       |
| Moose Jaw, Sask.       | 21,299               | 308                       | 611                  | 248     | 993,100                   | 9,688,400     | 1,574,600                                       |
| Guelph, Ont.           | 21,075               | 309                       | 497                  | 241     | 792,200                   | 9,194,400     | 1,388,200                                       |
| Glace Bay, N.S.        | 20,706               | 232                       | 200                  | 156     | 277,300                   | 4,268,100     | 680,000                                         |
| Moncton, N.B.          | 20,689               | 302                       | 920                  | 699     | 1,621,700                 | 20,751,400    | 2,290,700                                       |
| Port Arthur, Ont.      | 19,818               | 247                       | 458                  | 237     | 764,800                   | 9,006,900     | 1,858,800                                       |
| Niagara Falls, Ont.    | 19,046               | 343                       | 593                  | 336     | 943,100                   | 10,550,400    | 1,484,500                                       |
| Lachine, Que.          | 18,630               | 274                       | 360                  | 115     | 427,200                   | 5,184,900     | 992,900                                         |
| Sudbury, Ont.          | 18,518               | 236                       | 505                  | 214     | 832,800                   | 10,885,400    | 1,622,400                                       |
| Sarnia, Ont.           | 18,191               | 262                       | 408                  | 230     | 612,900                   | 7,969,400     | 1,168,700                                       |
| Stratford, Ont.        | 17,742               | 270                       | 447                  | 246     | 687,000                   | 7,868,700     | 1,241,300                                       |
| New Westminster, B.C.  | 17,524               | 288                       | 565                  | 201     | 893,700                   | 10,084,400    | 1,317,500                                       |
| Brandon, Man.          | 17,082               | 229                       | 495                  | 209     | 722,700                   | 7,322,600     | 1,379,400                                       |
| St. Boniface, Man.     | 16,305               | 121                       | 145                  | 28      | 148,100                   | 2,061,600     | 194,700                                         |
| North Bay, Ont.        | 15,528               | 205                       | 465                  | 180     | 625,800                   | 6,884,400     | 1,093,500                                       |
| St. Thomas, Ont.       | 15,430               | 286                       | 480                  | 235     | 667,900                   | 7,549,500     | 1,333,200                                       |
| Shawinigan Falls, Que. | 15,345               | 187                       | 216                  | 100     | 262,200                   | 3,538,400     | 868,100                                         |
| Chatham, Ont.          | 14,569               | 276                       | 543                  | 231     | 807,300                   | 8,634,300     | 1,378,700                                       |
| East Windsor, Ont.     | 14,251               | 140                       | 149                  | 27      | 225,700                   | 3,233,700     | 530,500                                         |
| Timmins, Ont.          | 14,200               | 159                       | 332                  | 109     | 511,100                   | 6,270,700     | 1,274,600                                       |
| Galt, Ont.             | 14,006               | 225                       | 322                  | 137     | 446,800                   | 5,406,000     | 965,500                                         |
| Belleville, Ont.       | 13,790               | 246                       | 473                  | 205     | 690,000                   | 7,883,800     | 1,387,300                                       |
| Lethbridge, Alta.      | 13,489               | 211                       | 466                  | 215     | 813,800                   | 8,482,300     | 1,446,100                                       |
| St. Hyacinthe, Que.    | 13,448               | 204                       | 285                  | 81      | 304,300                   | 4,103,700     | 953,900                                         |
| Owen Sound, Ont.       | 12,339               | 249                       | 354                  | 170     | 497,200                   | 5,716,100     | 1,148,200                                       |
| Charlottetown, P.E.I.  | 12,361               | 221                       | 384                  | 225     | 471,500                   | 5,823,500     | 1,214,900                                       |
| Chicoutimi, Que.       | 11,877               | 136                       | 180                  | 59      | 230,600                   | 2,960,000     | 645,100                                         |



**40.—Retail Merchandise Trade in Cities of 10,000 Population and Over, 1930**  
—concluded.

| City.                    | Popula-<br>tion,<br>1931. | Estab-<br>lish-<br>ments. | Full-Time Employees. |         |                           | Net<br>Sales. | Stocks on<br>Hand, End<br>of Year<br>(at Cost). |
|--------------------------|---------------------------|---------------------------|----------------------|---------|---------------------------|---------------|-------------------------------------------------|
|                          |                           |                           | Male.                | Female. | Salaries<br>and<br>Wages. |               |                                                 |
|                          | No.                       | No.                       | No.                  | No.     | \$                        | \$            | \$                                              |
| Lévis, Que.....          | 11,724                    | 151                       | 222                  | 39      | 220,900                   | 2,614,200     | 573,200                                         |
| Valleyfield, Que.....    | 11,411                    | 162                       | 225                  | 77      | 242,400                   | 3,882,900     | 871,100                                         |
| Woodstock, Ont.....      | 11,395                    | 194                       | 359                  | 165     | 510,000                   | 5,731,400     | 981,100                                         |
| St-Jean, Que.....        | 11,256                    | 190                       | 244                  | 72      | 280,000                   | 3,402,100     | 753,200                                         |
| Cornwall, Ont.....       | 11,126                    | 208                       | 323                  | 112     | 435,700                   | 4,870,800     | 889,600                                         |
| Joliette, Que.....       | 10,765                    | 174                       | 274                  | 69      | 261,500                   | 3,490,100     | 791,300                                         |
| Sandwich, Ont.....       | 10,715                    | 87                        | 83                   | 27      | 112,900                   | 1,765,700     | 191,000                                         |
| Welland, Ont.....        | 10,709                    | 195                       | 278                  | 94      | 397,500                   | 5,372,100     | 1,001,800                                       |
| Thetford Mines, Que..... | 10,701                    | 126                       | 117                  | 66      | 152,600                   | 1,939,700     | 492,700                                         |
| Granby, Que.....         | 10,587                    | 144                       | 134                  | 41      | 146,500                   | 2,168,800     | 581,500                                         |
| Sorel, Que.....          | 10,320                    | 184                       | 137                  | 71      | 162,600                   | 2,565,700     | 552,900                                         |
| Medicine Hat, Alta.....  | 10,300                    | 152                       | 256                  | 95      | 392,200                   | 4,532,500     | 872,900                                         |
| Walkerville, Ont.....    | 10,105                    | 109                       | 171                  | 66      | 275,000                   | 3,094,100     | 406,600                                         |

*Retail Sales, by Commodities.*—The calculation of the value of sales by commodities presents tremendous difficulties, as so few stores keep any records of their sales in various lines of merchandise. On the basis of the information returned for the Census of Merchandising and Service Establishments, Table 41 has been constructed to show the value of retail sales for broad commodity groups. It should be understood, however, that the figures are estimates only. The table includes retail sales by hotels, manufacturing bakeries and dairies, as well as the commodity sales of retail merchandising and service establishments. The sale of food and kindred products forms the largest single commodity group, as the value of goods sold is 29 p.c. of the total commodity sales.

**41.—Estimated Retail Sales and Percentages of Total, by Commodities, 1930.**

| Commodity.                                                                                           | Estimated<br>Sales.  | Per cent<br>of Total. |
|------------------------------------------------------------------------------------------------------|----------------------|-----------------------|
|                                                                                                      | \$                   | p.c.                  |
| Apparel, women's, misses' and children's (except shoes).....                                         | 196,958,000          | 6-90                  |
| Automobiles and accessories.....                                                                     | 235,504,000          | 8-25                  |
| Beverages, alcoholic (including sale of beer and wine in hotels).....                                | 164,436,000          | 5-76                  |
| Building materials.....                                                                              | 75,207,000           | 2-63                  |
| Clothing and furnishings, men's and boys.....                                                        | 142,959,000          | 5-01                  |
| Drugs and drug sundries.....                                                                         | 51,180,000           | 1-79                  |
| Dry goods and notions.....                                                                           | 74,977,000           | 2-63                  |
| Farm and garden equipment and supplies (including feeds).....                                        | 57,504,000           | 2-01                  |
| Food and kindred products.....                                                                       | 828,260,000          | 29-01                 |
| Fuel and ice.....                                                                                    | 107,219,000          | 3-76                  |
| Furniture and home furnishings and supplies (including antiques).....                                | 145,351,000          | 5-09                  |
| Gasoline, oils and greases.....                                                                      | 111,475,000          | 3-91                  |
| Hardware, paints, wallpaper, etc.....                                                                | 82,875,000           | 2-90                  |
| Household equipment (including electrical and gas appliances, heating and plumbing, and stoves)..... | 43,107,000           | 1-51                  |
| Jewellery and optical goods.....                                                                     | 30,175,000           | 1-06                  |
| Radios and musical instruments.....                                                                  | 45,997,000           | 1-61                  |
| Shoes and other footwear.....                                                                        | 81,391,000           | 2-85                  |
| Sporting goods (including bicycles, motorcycles and games).....                                      | 18,241,000           | 0-64                  |
| Stationery, books, magazines and newspapers.....                                                     | 33,509,000           | 1-17                  |
| Toilet articles and preparations.....                                                                | 18,926,000           | 0-66                  |
| All other merchandise (including tobacco).....                                                       | 201,424,000          | 7-05                  |
| Receipts from sale of meals.....                                                                     | 108,615,000          | 3-80                  |
| <b>Totals, All Commodities.....</b>                                                                  | <b>2,855,290,000</b> | <b>100-00</b>         |

*Employment and Wages.*—The labour force engaged in retail merchandise trade numbered 400,628 persons in 1930. This includes proprietors actively engaged in retailing and full-time and part-time employees. The salaries and wages of full-time and part-time employees are shown separately in Table 42 and also the withdrawals of those proprietors who reported receiving a fixed salary. It will be noted that only a few of the total proprietors draw fixed salaries each month from their businesses; the majority do not limit themselves to fixed amounts.

**42.—Employment and Wage Facts, Retail Merchandising Establishments in Canada, by Business Groups and Provinces, 1930.**

| Business Group and Province.                         | Stores.        | Proprietors not on Pay-roll. | Proprietors Receiving a Stated Salary. |                   | Full-Time Employees. |               |                     | Part-Time Employees. |               |                     |
|------------------------------------------------------|----------------|------------------------------|----------------------------------------|-------------------|----------------------|---------------|---------------------|----------------------|---------------|---------------------|
|                                                      |                |                              |                                        |                   | Male.                | Female.       | Salaries and Wages. | Male.                | Female.       | Salaries and Wages. |
|                                                      | No.            | No.                          | No.                                    | \$                | No.                  | No.           | \$                  | No.                  | No.           | \$                  |
| Food group.....                                      | 44,665         | 40,212                       | 4,199                                  | 6,251,700         | 35,685               | 9,685         | 39,454,100          | 6,444                | 2,134         | 1,930,000           |
| Country general stores                               | 11,915         | 11,201                       | 1,719                                  | 2,503,400         | 8,355                | 3,018         | 9,357,600           | 1,502                | 605           | 474,600             |
| General merchandise group.....                       | 2,974          | 2,092                        | 617                                    | 1,499,500         | 21,070               | 30,810        | 54,519,100          | 1,022                | 6,708         | 1,936,600           |
| Automotive group.....                                | 13,194         | 10,917                       | 2,742                                  | 4,912,400         | 26,710               | 1,363         | 34,725,400          | 2,575                | 114           | 1,041,300           |
| Apparel group.....                                   | 10,474         | 7,836                        | 2,702                                  | 5,868,500         | 10,431               | 9,722         | 21,374,900          | 2,229                | 1,797         | 1,217,300           |
| Building materials group.....                        | 6,035          | 3,886                        | 1,914                                  | 4,032,700         | 11,847               | 1,140         | 15,636,800          | 1,603                | 77            | 612,400             |
| Furniture and household group.....                   | 3,188          | 2,028                        | 921                                    | 2,167,500         | 9,034                | 1,909         | 14,153,400          | 829                  | 128           | 372,600             |
| Restaurants, cafeterias and other eating places..... | 5,609          | 5,744                        | 1,198                                  | 1,412,800         | 10,496               | 8,342         | 13,754,700          | 476                  | 916           | 370,600             |
| Other retail groups.....                             | 25,343         | 19,450                       | 4,072                                  | 8,687,900         | 31,099               | 6,576         | 43,317,300          | 6,617                | 759           | 2,462,300           |
| Second-hand group.....                               | 1,606          | 1,486                        | 233                                    | 369,600           | 1,029                | 117           | 1,077,200           | 229                  | 12            | 67,400              |
| <b>Canada.....</b>                                   | <b>125,003</b> | <b>104,852</b>               | <b>20,317</b>                          | <b>37,706,000</b> | <b>166,001</b>       | <b>72,682</b> | <b>247,370,500</b>  | <b>23,526</b>        | <b>13,250</b> | <b>10,485,100</b>   |
| Prince Edward Island                                 | 851            | 833                          | 116                                    | 206,100           | 732                  | 395           | 874,400             | 125                  | 57            | 46,200              |
| Nova Scotia.....                                     | 6,464          | 5,876                        | 725                                    | 1,303,100         | 5,415                | 2,811         | 7,006,300           | 712                  | 488           | 263,600             |
| New Brunswick.....                                   | 4,434          | 3,962                        | 547                                    | 965,100           | 4,516                | 2,338         | 6,224,300           | 457                  | 325           | 183,900             |
| Quebec.....                                          | 34,286         | 29,698                       | 4,393                                  | 8,781,100         | 45,085               | 17,815        | 59,778,200          | 5,348                | 2,462         | 1,980,200           |
| Ontario.....                                         | 43,043         | 35,287                       | 8,336                                  | 15,789,500        | 64,127               | 30,057        | 101,636,800         | 10,149               | 6,780         | 4,902,100           |
| Manitoba.....                                        | 6,859          | 5,862                        | 1,048                                  | 1,905,400         | 11,440               | 6,366         | 18,945,300          | 1,280                | 676           | 652,500             |
| Saskatchewan.....                                    | 10,841         | 8,566                        | 1,600                                  | 2,634,400         | 10,153               | 2,939         | 14,170,600          | 2,111                | 417           | 745,700             |
| Alberta.....                                         | 8,592          | 7,089                        | 1,390                                  | 2,397,100         | 9,638                | 3,439         | 14,947,000          | 1,354                | 590           | 616,100             |
| British Columbia.....                                | 9,501          | 7,641                        | 2,157                                  | 3,707,200         | 14,675               | 6,513         | 23,465,100          | 1,822                | 1,453         | 1,056,200           |
| Yukon and Northwest Territories....                  | 130            | 48                           | 5                                      | 17,000            | 215                  | 9             | 322,500             | 168                  | 2             | 38,600              |

*Service Establishments.*—The 42,223 service establishments from which reports were secured had receipts of \$249,455,900 in 1930. The professional services, such as medicine, dentistry or law, were not included in the census, nor were the building trades, such as carpentry, tinsmithing, etc. A special report has been prepared for hotels and the figures for these establishments are not included in the tables that follow. The provincial distribution of retail services in Canada during 1930 is shown in Table 43. Ontario again led in the amount of business with 43·86 p.c. of the total service receipts, while Quebec came second with 25·49 p.c.

Among service establishments, the amusements group was the most important, 21·34 p.c. of the total receipts being reported by establishments of this class. Of the receipts of \$53,231,500 for amusement establishments, \$38,479,500 was secured by motion picture houses. The next group in importance was that of storage and transportation, which includes carting and storage, taxi and motor transportation. The barber shops were the most important section of the personal service group and did more than twice as much business as hairdressing and beauty parlours. The repair and service group had the largest number of establishments. Blacksmith

shops were the most numerous, their receipts being only slightly less than the total for boot and shoe repair shops. Repair and service shops for motor vehicles formed an important section of this group.

#### 43.—Retail Services in Canada, by Provinces, 1930.

| Province.                            | Estab-lish-ments. | Proportion of Total Estab-lish-ments. | Employees.    |              | Salaries and Wages. | Receipts.          | Proportion of Total Receipts. | Stocks on Hand, End of Year (at Cost). |
|--------------------------------------|-------------------|---------------------------------------|---------------|--------------|---------------------|--------------------|-------------------------------|----------------------------------------|
|                                      |                   |                                       | Full-Time.    | Part-Time.   |                     |                    |                               |                                        |
|                                      | No.               | p.c.                                  | No.           | No.          | \$                  | \$                 | p.c.                          | \$                                     |
| Prince Edward Island.....            | 335               | 0.79                                  | 146           | 12           | 107,000             | 658,100            | 0.26                          | 26,000                                 |
| Nova Scotia.....                     | 1,504             | 3.56                                  | 1,426         | 203          | 1,254,400           | 6,353,100          | 2.55                          | 166,600                                |
| New Brunswick.....                   | 1,393             | 3.30                                  | 1,058         | 144          | 883,000             | 4,393,100          | 1.76                          | 149,600                                |
| Quebec.....                          | 10,916            | 25.85                                 | 15,663        | 1,862        | 16,920,900          | 63,596,400         | 25.49                         | 1,290,100                              |
| Ontario.....                         | 15,566            | 36.87                                 | 22,467        | 4,233        | 25,359,900          | 109,397,900        | 43.86                         | 2,566,400                              |
| Manitoba.....                        | 2,493             | 5.91                                  | 3,976         | 772          | 4,453,400           | 16,437,800         | 6.59                          | 338,800                                |
| Saskatchewan.....                    | 3,658             | 8.66                                  | 1,936         | 492          | 2,079,900           | 10,342,600         | 4.15                          | 389,500                                |
| Alberta.....                         | 2,881             | 6.82                                  | 2,799         | 476          | 3,212,000           | 13,434,500         | 5.39                          | 298,100                                |
| British Columbia.....                | 3,458             | 8.19                                  | 5,752         | 790          | 6,923,900           | 24,705,300         | 9.90                          | 535,800                                |
| Yukon and Northwest Territories..... | 19                | 0.05                                  | 34            | —            | 37,500              | 137,100            | 0.05                          | 1,100                                  |
| <b>Canada.....</b>                   | <b>42,223</b>     | <b>100.00</b>                         | <b>55,257</b> | <b>8,984</b> | <b>61,231,900</b>   | <b>249,455,900</b> | <b>100.00</b>                 | <b>5,762,000</b>                       |

*Employment and Wages.*—The principal statistics for the labour force in service establishments are given in Table 44. There were 64,241 persons engaged in the 42,223 service establishments. This total includes proprietors as well as full-time and part-time employees.

#### 44.—Employment and Wage Facts, Retail Service Establishments in Canada, 1930.

| Business Group and Province.            | Estab-lish-ments. | Pro-pri-eters not on Pay-roll. | Proprietors Receiving a Stated Salary. |                  | Full-Time Employees. |               |                     | Part-Time Employees. |              |                     |
|-----------------------------------------|-------------------|--------------------------------|----------------------------------------|------------------|----------------------|---------------|---------------------|----------------------|--------------|---------------------|
|                                         |                   |                                | No.                                    | \$               | Male.                | Fe-male.      | Salaries and Wages. | Male.                | Fe-male.     | Salaries and Wages. |
|                                         | No.               | No.                            | No.                                    | \$               | No.                  | No.           | \$                  | No.                  | No.          | \$                  |
| Amusement and re-creation group.....    | 3,300             | 2,981                          | 308                                    | 545,600          | 7,058                | 1,765         | 9,414,700           | 2,846                | 398          | 890,900             |
| Business services group.....            | 476               | 297                            | 148                                    | 589,900          | 1,782                | 557           | 4,036,800           | 234                  | 30           | 81,300              |
| Domestic services group.....            | 4,884             | 5,048                          | 710                                    | 1,378,700        | 7,493                | 7,481         | 13,322,800          | 446                  | 226          | 245,200             |
| Educational services group.....         | 169               | 108                            | 21                                     | 45,900           | 185                  | 270           | 569,200             | 58                   | 17           | 15,800              |
| Personal services group.....            | 10,583            | 10,557                         | 412                                    | 554,200          | 4,592                | 2,041         | 6,135,000           | 819                  | 226          | 301,100             |
| Photography.....                        | 857               | 772                            | 122                                    | 258,800          | 629                  | 392           | 1,070,000           | 126                  | 100          | 64,400              |
| Undertaking and burial.....             | 860               | 795                            | 152                                    | 441,800          | 853                  | 80            | 1,192,100           | 252                  | 10           | 67,500              |
| Repair and service shops.....           | 14,167            | 14,026                         | 596                                    | 916,700          | 4,494                | 151           | 4,710,900           | 914                  | 26           | 297,900             |
| Storage and trans- portation group..... | 5,346             | 5,261                          | 594                                    | 1,226,700        | 12,917               | 431           | 15,370,100          | 1,937                | 15           | 927,600             |
| Miscellaneous services                  | 1,581             | 1,545                          | 169                                    | 365,000          | 1,872                | 214           | 2,396,100           | 248                  | 56           | 122,500             |
| <b>Canada.....</b>                      | <b>42,223</b>     | <b>41,390</b>                  | <b>3,232</b>                           | <b>6,323,300</b> | <b>41,875</b>        | <b>13,382</b> | <b>58,217,700</b>   | <b>7,880</b>         | <b>1,104</b> | <b>3,014,200</b>    |
| Prince Edward Island.....               | 335               | 347                            | 3                                      | 3,400            | 94                   | 52            | 104,100             | 12                   | —            | 2,900               |
| Nova Scotia.....                        | 1,504             | 1,494                          | 71                                     | 129,600          | 1,025                | 401           | 1,195,800           | 175                  | 28           | 58,600              |
| New Brunswick.....                      | 1,393             | 1,371                          | 51                                     | 65,900           | 743                  | 315           | 848,700             | 113                  | 31           | 34,300              |
| Quebec.....                             | 10,916            | 10,529                         | 749                                    | 1,666,600        | 12,241               | 3,422         | 16,107,800          | 1,688                | 174          | 813,100             |
| Ontario.....                            | 15,566            | 15,214                         | 1,473                                  | 2,790,100        | 17,170               | 5,297         | 24,070,700          | 3,717                | 516          | 1,289,200           |
| Manitoba.....                           | 2,493             | 2,447                          | 205                                    | 413,700          | 2,979                | 997           | 4,235,100           | 697                  | 75           | 218,300             |
| Saskatchewan.....                       | 3,658             | 3,755                          | 136                                    | 245,800          | 1,474                | 462           | 1,923,200           | 417                  | 75           | 156,700             |
| Alberta.....                            | 2,881             | 2,880                          | 160                                    | 321,300          | 2,081                | 718           | 3,062,400           | 414                  | 62           | 149,600             |
| British Columbia.....                   | 3,458             | 3,335                          | 382                                    | 680,900          | 4,036                | 1,716         | 6,832,400           | 647                  | 143          | 291,500             |
| Yukon and North-west Territories....    | 19                | 18                             | 2                                      | 6,000            | 32                   | 2             | 37,500              | —                    | —            | —                   |

*Detailed Statistics of Business Services.*—The salient features of the business of service establishments are given in Table 45, which also shows the type of operation, *i.e.*, the extent to which these establishments operate independently or are organized in chain systems. Of the total of 42,223 establishments, there were 40,964 under independent operation, while the receipts of single independent establishments formed 74.79 p.c. of the total of all receipts for services. Except in the case of theatres, which are separately analysed in the table, chain systems were not an important factor in the service field.

**45.—Retail Services in Canada, by Group and Kind of Business and Type of Operation, 1930.**

**KIND OF BUSINESS.**

| Group and Kind of Business.                          | Establishments. | Employees.   |              | Salaries and Wages. | Receipts.         | Stocks on Hand, End of Year (at Cost). |
|------------------------------------------------------|-----------------|--------------|--------------|---------------------|-------------------|----------------------------------------|
|                                                      |                 | Full-Time.   | Part-Time.   |                     |                   |                                        |
|                                                      | No.             | No.          | No.          | \$                  | \$                | \$                                     |
| <b>AMUSEMENT AND RECREATION.</b>                     |                 |              |              |                     |                   |                                        |
| Bowling and Pool Halls—                              |                 |              |              |                     |                   |                                        |
| Billiards and pool halls.....                        | 1,329           | 581          | 141          | 528,300             | 4,350,500         | 216,600                                |
| Bowling alleys.....                                  | 208             | 1,139        | 372          | 917,900             | 3,033,300         | 43,200                                 |
| Theatres—                                            |                 |              |              |                     |                   |                                        |
| Motion picture houses.....                           | 894             | 4,991        | 825          | 6,504,100           | 36,262,500        | 3,700                                  |
| Motion pictures and vaudeville.....                  | 16              | 318          | 9            | 442,600             | 2,217,000         | —                                      |
| Opera houses and legitimate theatres..               | 6               | 124          | 55           | 251,600             | 483,900           | —                                      |
| Other Amusement Places—                              |                 |              |              |                     |                   |                                        |
| Auditorium operating.....                            | 14              | 78           | 122          | 175,900             | 674,900           | —                                      |
| Amusement parks.....                                 | 36              | 246          | 352          | 330,600             | 1,338,000         | 26,200                                 |
| Concessions.....                                     | 34              | 94           | 43           | 116,700             | 434,900           | 400                                    |
| Ocean piers, penny arcades, etc.....                 | 10              | 14           | 3            | 9,800               | 77,500            | 1,200                                  |
| Other Recreation Places—                             |                 |              |              |                     |                   |                                        |
| Dancing academies and dance halls, roof gardens..... | 146             | 337          | 181          | 252,400             | 923,600           | 4,400                                  |
| Athletic clubs, grounds, halls, etc.....             | 14              | 226          | 778          | 284,300             | 1,149,500         | 200                                    |
| Bathhouses, beach.....                               | 5               | 38           | 6            | 32,300              | 78,900            | —                                      |
| Swimming pools.....                                  | 10              | 45           | 18           | 41,300              | 83,400            | 200                                    |
| Boats and janes for hire.....                        | 117             | 40           | 35           | 24,000              | 162,400           | 3,500                                  |
| Camp grounds, conducting.....                        | 233             | 203          | 146          | 99,200              | 797,600           | 21,200                                 |
| Golf courses, operating of.....                      | 108             | 166          | 76           | 114,700             | 457,200           | 3,200                                  |
| Skating rinks, ice.....                              | 42              | 76           | 75           | 76,200              | 348,900           | 1,600                                  |
| Skating rinks, roller.....                           | 7               | 16           | 1            | 6,800               | 28,300            | —                                      |
| Riding schools.....                                  | 11              | 12           | 2            | 13,000              | 56,000            | —                                      |
| Lending libraries.....                               | 58              | 20           | 4            | 16,500              | 139,300           | 12,300                                 |
| <b>Totals.....</b>                                   | <b>3,300</b>    | <b>8,823</b> | <b>3,244</b> | <b>10,305,600</b>   | <b>53,231,500</b> | <b>337,900</b>                         |
| <b>BUSINESS SERVICES.</b>                            |                 |              |              |                     |                   |                                        |
| Advertising Services—                                |                 |              |              |                     |                   |                                        |
| Addressing, multigraphing, typing....                | 40              | 84           | 25           | 101,000             | 280,900           | 21,500                                 |
| Advertising agencies.....                            | 100             | 1,004        | 8            | 2,104,200           | 21,940,900        | 1,800                                  |
| Outdoor display and bill-board advertising.....      | 119             | 786          | 127          | 1,276,700           | 4,930,000         | 38,100                                 |
| Handbills, showcards, novelty advertising.....       | 166             | 254          | 87           | 304,300             | 1,140,700         | 70,000                                 |
| Mailing lists agencies.....                          | 6               | 16           | 4            | 24,800              | 56,300            | 7,800                                  |
| Other Business Services—                             |                 |              |              |                     |                   |                                        |
| Collection and credit agencies.....                  | 29              | 173          | 3            | 268,200             | 729,300           | 1,800                                  |
| Auction houses.....                                  | 13              | 11           | 10           | 13,000              | 248,900           | 23,000                                 |
| <b>Totals.....</b>                                   | <b>476</b>      | <b>2,339</b> | <b>264</b>   | <b>4,118,100</b>    | <b>29,409,300</b> | <b>164,000</b>                         |
| <b>DOMESTIC SERVICES.</b>                            |                 |              |              |                     |                   |                                        |
| Cleaning and Dyeing—                                 |                 |              |              |                     |                   |                                        |
| Cleaning, pressing and repairing.....                | 1,930           | 1,179        | 221          | 1,039,600           | 5,204,900         | 71,000                                 |
| Cleaners and dyers.....                              | 307             | 3,325        | 75           | 3,350,700           | 7,766,100         | 41,500                                 |
| Cleaning carpets.....                                | 14              | 83           | 7            | 95,900              | 244,900           | 300                                    |
| General cleaning.....                                | 6               | 36           | 6            | 50,300              | 83,100            | —                                      |
| Laundries.....                                       | 2,401           | 9,583        | 195          | 8,188,400           | 20,645,500        | 49,300                                 |



# 45.—Retail Services in Canada, by Group and Kind of Business and Type of Operation, 1930—continued.

## KIND OF BUSINESS.

| Group and Kind of Business.                              | Estab-<br>lish-<br>ments. | Employees.     |                | Salaries<br>and<br>Wages. | Receipts.         | Stocks on<br>Hand, End<br>of Year<br>(at Cost). |
|----------------------------------------------------------|---------------------------|----------------|----------------|---------------------------|-------------------|-------------------------------------------------|
|                                                          |                           | Full-<br>Time. | Part-<br>Time. |                           |                   |                                                 |
| DOMESTIC SERVICES—concluded.                             | No.                       | No.            | No.            | \$                        | \$                | \$                                              |
| Other Domestic Services—                                 |                           |                |                |                           |                   |                                                 |
| Coat and towel supply.....                               | 40                        | 379            | 4              | 395,100                   | 1,474,200         | 61,000                                          |
| Fumigation and vermin extermination.....                 | 10                        | 9              | 11             | 10,500                    | 55,900            | 1,600                                           |
| Fur cleaning, repairing and storage.....                 | 115                       | 139            | 41             | 121,400                   | 591,700           | 118,200                                         |
| Hat blocking and cleaning.....                           | 19                        | 14             | 1              | 11,600                    | 60,800            | 1,600                                           |
| Window cleaners.....                                     | 29                        | 136            | 95             | 267,300                   | 455,300           | 100                                             |
| Theatrical costumes and chairs rented.....               | 13                        | 41             | 16             | 37,200                    | 129,000           | 20,200                                          |
| <b>Totals.....</b>                                       | <b>4,884</b>              | <b>14,974</b>  | <b>672</b>     | <b>13,568,000</b>         | <b>36,711,400</b> | <b>364,800</b>                                  |
| EDUCATIONAL SERVICES.                                    |                           |                |                |                           |                   |                                                 |
| Trade Schools—                                           |                           |                |                |                           |                   |                                                 |
| Dressmaking schools.....                                 | 4                         | 1              | —              | 800                       | 6,000             | —                                               |
| Hairdressing schools.....                                | 10                        | 13             | 17             | 16,600                    | 59,500            | 1,000                                           |
| Other trade schools.....                                 | 43                        | 150            | 5              | 150,000                   | 435,600           | 6,900                                           |
| Other Schools—                                           |                           |                |                |                           |                   |                                                 |
| Business colleges.....                                   | 71                        | 254            | 52             | 384,000                   | 1,188,400         | 3,100                                           |
| Music schools.....                                       | 40                        | 35             | 1              | 30,000                    | 160,600           | 500                                             |
| <b>Totals.....</b>                                       | <b>169</b>                | <b>455</b>     | <b>75</b>      | <b>585,000</b>            | <b>1,856,100</b>  | <b>11,500</b>                                   |
| PERSONAL SERVICES.                                       |                           |                |                |                           |                   |                                                 |
| Barber shops.....                                        | 7,734                     | 4,166          | 678            | 4,261,300                 | 16,996,300        | 290,900                                         |
| Beauty parlours and hairdressers.....                    | 2,385                     | 1,966          | 198            | 1,833,300                 | 6,109,300         | 159,500                                         |
| Shoe shine (including hat cleaning).....                 | 401                       | 428            | 157            | 279,000                   | 1,079,800         | 26,400                                          |
| Turkish and other baths.....                             | 63                        | 73             | 12             | 62,500                    | 275,100           | 200                                             |
| <b>Totals.....</b>                                       | <b>10,583</b>             | <b>6,633</b>   | <b>1,045</b>   | <b>6,436,100</b>          | <b>24,460,500</b> | <b>477,000</b>                                  |
| PHOTOGRAPHY.                                             |                           |                |                |                           |                   |                                                 |
| Photographers.....                                       | 738                       | 770            | 148            | 826,500                   | 4,009,700         | 371,300                                         |
| Printing, developing and enlarging photo-<br>graphs..... | 110                       | 165            | 73             | 192,800                   | 743,100           | 30,200                                          |
| Photostatting.....                                       | 9                         | 86             | 5              | 115,100                   | 325,800           | 11,100                                          |
| <b>Totals.....</b>                                       | <b>857</b>                | <b>1,021</b>   | <b>226</b>     | <b>1,134,400</b>          | <b>5,078,600</b>  | <b>412,600</b>                                  |
| UNDERTAKING AND BURIAL.                                  |                           |                |                |                           |                   |                                                 |
| Funeral directors.....                                   | 792                       | 887            | 247            | 1,213,800                 | 8,703,500         | 841,500                                         |
| Undertaking and furniture.....                           | 67                        | 46             | 15             | 45,800                    | 592,700           | 230,500                                         |
| <b>Totals.....</b>                                       | <b>860</b>                | <b>933</b>     | <b>262</b>     | <b>1,259,600</b>          | <b>9,299,800</b>  | <b>1,072,000</b>                                |
| REPAIR AND SERVICE SHOPS.                                |                           |                |                |                           |                   |                                                 |
| Automobile Repair and Service Shops—                     |                           |                |                |                           |                   |                                                 |
| Service garages.....                                     | 1,118                     | 1,084          | 172            | 1,306,500                 | 5,547,000         | 197,200                                         |
| Ignition, batteries and electrical.....                  | 101                       | 94             | 15             | 115,400                   | 636,300           | 68,200                                          |
| Paint shops.....                                         | 118                       | 143            | 43             | 157,300                   | 559,600           | 15,500                                          |
| Tire shops.....                                          | 73                        | 60             | 6              | 52,900                    | 349,300           | 23,700                                          |
| Repair shops (n.o.s.).....                               | 79                        | 129            | 24             | 168,400                   | 671,600           | 65,200                                          |
| Washing, polishing, etc.....                             | 45                        | 84             | 8              | 78,400                    | 265,000           | 2,300                                           |
| Storage garage or parking space.....                     | 95                        | 209            | 44             | 296,200                   | 1,176,400         | 8,700                                           |
| Top and body shops.....                                  | 205                       | 503            | 89             | 680,700                   | 2,003,000         | 124,800                                         |
| Bicycle and motorcycle repairs.....                      | 75                        | 21             | 3              | 14,400                    | 136,300           | 20,900                                          |
| Blacksmith and Carriage Repairs—                         |                           |                |                |                           |                   |                                                 |
| Blacksmith shops.....                                    | 5,521                     | 809            | 212            | 749,600                   | 7,319,200         | 553,700                                         |
| Carriage repairs.....                                    | 298                       | 80             | 12             | 71,000                    | 402,000           | 41,300                                          |
| Boot and shoe repairs.....                               | 4,765                     | 889            | 190            | 757,300                   | 7,799,900         | 412,900                                         |
| Other Repair and Service Shops—                          |                           |                |                |                           |                   |                                                 |
| Harness repairs.....                                     | 267                       | 14             | 8              | 11,300                    | 322,000           | 76,900                                          |
| Locksmiths.....                                          | 189                       | 50             | 8              | 53,000                    | 441,800           | 34,000                                          |
| Radio and electrical repairs and service.....            | 79                        | 76             | 24             | 79,800                    | 292,200           | 49,900                                          |
| Upholstery and furniture repairs.....                    | 383                       | 219            | 61             | 236,200                   | 1,159,400         | 103,400                                         |
| Watch and jewellery repairs.....                         | 718                       | 149            | 18             | 143,900                   | 1,467,200         | 421,400                                         |
| Miscellaneous repairs.....                               | 35                        | 30             | 3              | 34,700                    | 121,600           | 20,500                                          |
| <b>Totals.....</b>                                       | <b>14,167</b>             | <b>4,645</b>   | <b>940</b>     | <b>5,008,800</b>          | <b>30,675,300</b> | <b>2,240,500</b>                                |

**45.—Retail Services in Canada, by Group and Kind of Business and Type of Operation, 1930—concluded.**  
KIND OF BUSINESS.

| Group and Kind of Business.                                     | Es-<br>tablish-<br>ments. | Employees.     |                | Salaries<br>and<br>Wages. | Receipts.          | Stocks on<br>Hand, End<br>of Year<br>(at Cost). |
|-----------------------------------------------------------------|---------------------------|----------------|----------------|---------------------------|--------------------|-------------------------------------------------|
|                                                                 |                           | Full-<br>Time. | Part-<br>Time. |                           |                    |                                                 |
|                                                                 | No.                       | No.            | No.            | \$                        | \$                 | \$                                              |
| <b>STORAGE AND TRANSPORTATION.</b>                              |                           |                |                |                           |                    |                                                 |
| Cartage and Storage—                                            |                           |                |                |                           |                    |                                                 |
| General transfer (including baggage<br>and light delivery)..... | 270                       | 700            | 248            | 1,012,400                 | 2,243,900          | 2,700                                           |
| Trucking and cartage (local).....                               | 2,090                     | 3,763          | 792            | 4,403,400                 | 13,327,900         | 63,300                                          |
| Messenger and light delivery.....                               | 41                        | 210            | 14             | 180,200                   | 358,100            | 3,700                                           |
| Warehousing, storage and trucking.....                          | 111                       | 1,754          | 258            | 2,294,100                 | 5,561,300          | 72,200                                          |
| Warehousing and storage only.....                               | 21                        | 180            | 40             | 279,800                   | 683,000            | —                                               |
| Storage—ice and cold.....                                       | 18                        | 263            | 47             | 419,700                   | 1,502,900          | 3,400                                           |
| Taxi and auto livery service.....                               | 1,211                     | 2,694          | 162            | 2,690,300                 | 8,290,300          | 49,700                                          |
| Motor Transportation—                                           |                           |                |                |                           |                    |                                                 |
| Bus lines (local).....                                          | 50                        | 231            | 7              | 298,600                   | 1,040,300          | —                                               |
| Stage lines (inter-city).....                                   | 152                       | 1,058          | 42             | 1,567,600                 | 5,987,500          | 4,100                                           |
| Motor freight hauling (inter-city).....                         | 745                       | 1,786          | 241            | 2,075,700                 | 7,612,800          | 7,000                                           |
| Milk and cream and other farm prod-<br>ucts trucking.....       | 585                       | 213            | 52             | 214,200                   | 1,570,800          | 1,700                                           |
| Miscellaneous transportation.....                               | 52                        | 496            | 49             | 861,700                   | 2,774,600          | 3,500                                           |
| <b>Totals.....</b>                                              | <b>5,346</b>              | <b>13,348</b>  | <b>1,952</b>   | <b>16,297,700</b>         | <b>59,953,400</b>  | <b>211,300</b>                                  |
| <b>MISCELLANEOUS SERVICES.</b>                                  |                           |                |                |                           |                    |                                                 |
| <b>Totals.....</b>                                              | <b>1,581</b>              | <b>2,086</b>   | <b>394</b>     | <b>2,518,600</b>          | <b>7,780,000</b>   | <b>470,400</b>                                  |
| <b>Grand Totals<sup>1</sup>.....</b>                            | <b>42,223</b>             | <b>55,257</b>  | <b>8,984</b>   | <b>61,231,900</b>         | <b>249,455,900</b> | <b>5,762,000</b>                                |

## TYPE OF OPERATION.

| Type of Operation.                       | Es-<br>tablish-<br>ments. | Full-Time Employees: |               |                           | Receipts.          | Propor-<br>tion of<br>Receipts. |
|------------------------------------------|---------------------------|----------------------|---------------|---------------------------|--------------------|---------------------------------|
|                                          |                           | Male.                | Female.       | Salaries<br>and<br>Wages. |                    |                                 |
|                                          | No.                       | No.                  | No.           | \$                        | \$                 | p.c.                            |
| <b>ALL ESTABLISHMENTS.</b>               |                           |                      |               |                           |                    |                                 |
| Single independents.....                 | 40,964                    | 33,770               | 10,091        | 43,867,800                | 186,575,200        | 74.79                           |
| Two-unit multiples.....                  | 393                       | 2,220                | 1,114         | 4,239,300                 | 19,926,700         | 7.99                            |
| Three-unit multiples.....                | 143                       | 1,023                | 259           | 1,645,900                 | 6,145,600          | 2.46                            |
| Local chains (4 establishments and over) | 129                       | 931                  | 556           | 1,657,500                 | 6,253,100          | 2.51                            |
| Provincial chains.....                   | 124                       | 1,322                | 518           | 1,941,500                 | 6,429,500          | 2.58                            |
| Sectional chains.....                    | 39                        | 1,134                | 73            | 1,314,600                 | 3,220,100          | 1.29                            |
| National chains.....                     | 145                       | 1,087                | 555           | 2,906,500                 | 19,271,200         | 7.73                            |
| Leased concessions.....                  | 252                       | 283                  | 130           | 428,300                   | 1,131,600          | 0.45                            |
| Leased departments.....                  | 10                        | 22                   | 49            | 81,800                    | 176,800            | 0.07                            |
| Other types of operation.....            | 24                        | 83                   | 27            | 134,500                   | 326,100            | 0.13                            |
| <b>Totals.....</b>                       | <b>42,223</b>             | <b>41,875</b>        | <b>13,382</b> | <b>58,217,700</b>         | <b>249,455,900</b> | <b>100.00</b>                   |
| <b>THEATRES.</b>                         |                           |                      |               |                           |                    |                                 |
| Single independents.....                 | 659                       | 1,964                | 562           | 2,920,500                 | 16,739,200         | 42.81                           |
| Two-unit multiples.....                  | 62                        | 366                  | 118           | 711,400                   | 3,853,500          | 9.86                            |
| Three-unit multiples.....                | 30                        | 219                  | 105           | 538,700                   | 2,636,700          | 6.49                            |
| Local chains (4 establishments and over) | 54                        | 528                  | 164           | 777,300                   | 4,061,600          | 10.39                           |
| Provincial chains.....                   | 50                        | 414                  | 143           | 553,700                   | 3,222,900          | 8.24                            |
| Sectional chains.....                    | 11                        | 664                  | 245           | 1,455,200                 | 8,683,400          | 22.21                           |
| National chains.....                     | 52                        |                      |               |                           |                    |                                 |
| <b>Totals.....</b>                       | <b>918</b>                | <b>4,155</b>         | <b>1,337</b>  | <b>6,956,800</b>          | <b>39,097,300</b>  | <b>100.00</b>                   |

<sup>1</sup> Included in group totals may be figures for classifications which cannot be shown separately without disclosing individual operations.

## CHAPTER XVIII.—TRANSPORTATION AND COMMUNICATIONS.

Canada is a country of continental dimensions, nearly 4,000 miles in length from east to west, with its relatively small population of 10,835,000 (estimated population as at June 1, 1934) in the main thinly distributed along the southern borders of its vast area. Different parts of the country are shut off from each other by areas which are almost wildernesses, such as the region lying between New Brunswick and Quebec and the areas north of lakes Huron and Superior, the last dividing the industrial region of Ontario and Quebec from the agricultural areas of the prairies. To such a country with such a population, producing, like our western agriculturists, mainly for export, or, like our manufacturers, largely for consumption in distant portions of the country itself, cheap transportation is a necessity of life. Before 1850, when the water routes were the chief avenues of transportation and were closed by ice for several months each year, the business of the central portions of the country was reduced to a state of relative inactivity during the winter. The steam railway was therefore required for the adequate economic development of Canada, more particularly for linking up with the economic and industrial world the vast productive areas of the Canadian West, and thus promoting their development. The construction of the Canadian Pacific Railway gave to Canada, as an economic unit, length; the building of the newer transcontinental railways has given the country breadth.

Railway transportation, though essential, is nevertheless expensive, particularly in post-war years, and for bulky and weighty commodities. Hence new enterprises have either been undertaken or are under consideration for improving water communication, such as the new and deeper Welland canal, the deepening of the St. Lawrence canals and of the channel between Montreal and Quebec, and the development of the Hudson Bay route.

Problems of transportation are, therefore, of vital importance in the economic life of Canada, occupying a large part of the time and thought of our Parliaments and public men. Scarcely less important, from the social and economic points of view, is the development of methods of communication in a country so vast and so thinly peopled. The Post Office has been a great though little recognized factor in promoting solidarity among the people of different parts of the Dominion, while telegraphs and telephones have gone far to annihilate distance; the rural telephone, in particular, has been of great social and economic benefit in country districts. The use of the automobile has also been of great benefit in promoting social intercourse and in facilitating the transaction of business among the dwellers of both urban and rural districts. The press, again, assisted by cheap telegraph and cable rates, and reaching, through the mails, all parts of the country, has been of use in developing national sentiment. To sum up, it may be said that the progress of modern inventions, not least among which is the radio, has greatly improved living conditions in both rural and urban communities throughout the Dominion.

Part I of this chapter includes a statement of the tendencies toward monopoly which have made it necessary to establish a measure of government control over those transportation and communication agencies which are not governmentally-owned and operated; to this is added an account of the origin and functions of the

Board of Railway Commissioners. The subsequent parts deal in order with steam railways, electric railways, express companies, roads, motor vehicles, air navigation, canals, shipping, telegraphs, telephones, radio and the Post Office.

## PART I.—GOVERNMENT CONTROL OVER AGENCIES OF TRANSPORTATION AND COMMUNICATION.

Private enterprises engaged in the transportation and communication business in Canada have, in the past 50 years, shown the same tendency toward consolidation and amalgamation which has been evident elsewhere throughout the civilized world. The basic reason for such consolidation and amalgamation has been the fact that the business of transportation and communication is, generally speaking, a "natural monopoly", *i.e.*, a type of enterprise in which service can be more efficiently and economically rendered to the public where one or a few concerns control a particular type of service throughout the country. The outstanding example of these consolidations in Canada in our time is the concentration of control of the railways of the country in the hands of the Canadian Pacific Railway Company and the Canadian National Railway Company.

However, since such control brings with it an element of monopoly and possible overcharge which is distasteful to the public, it has been deemed advisable in Canada, as in other countries, to set up authorities controlling the rates to be charged and the other conditions on which services to the public are to be rendered by common carriers. This control, so far as railways within the jurisdiction of the Dominion Government are concerned, has been placed in the hands of the Board of Railway Commissioners, whose authority has been extended to cover various other means of transportation and communication. A brief summary of the history and functions of this body follows on pp. 693-694.

Besides the Board of Railway Commissioners, dealing with the larger public utilities coming under the jurisdiction of the Dominion Government, there exist, in several of the provinces, bodies which undertake among their duties the supervision and control of local public utilities operating under the jurisdiction of the provinces, and the regulation of their rates for service. Among these is the Railway and Municipal Board of Ontario, established in 1906, which controls the construction, operation and maintenance of railways, and the approving of their rates and their rules and regulations affecting the public. Similarly, in Quebec, a Commission of Public Utilities was established in 1909 and was given superintendence over all Quebec corporations, other than municipalities, "that own, operate, manage or control any system, works, plant or equipment for the conveyance of telegraph or telephone messages or for the conveyance of travellers or goods over a railway, street railway or tramway, or for the production, transmission, delivery or furnishing of heat, light or power, either directly or indirectly to or for the public". In Nova Scotia there is a Board of Commissioners of Public Utilities and in Manitoba a Public Utilities Commission with similar functions, while in the three westernmost provinces these same duties are performed by provincial Departments of Railways.

Due to changing conditions and increasing complexities in the transportation field, the Dominion Government appointed in 1931 a Royal Commission to inquire into the whole problem of transportation in Canada, particularly in relation to railways and shipping and communication facilities, having regard to present conditions and the probable future development of the country. (See pp. 648-50 of the 1933 Year Book.)



## The Board of Railway Commissioners for Canada.\*

In the early days of railway building in Canada, the provinces were more concerned with rapid development than with rate regulation. Under the Railway Clauses Consolidation Act of 1851, rates were fixed by the directors of the railway, subject to the approval of the Governor in Council. Beyond this, competition was relied upon to bring rates to a reasonable level. As time went on, however, those who believed in the efficacy of competition as a regulator were disillusioned. For example, complaints were made that the Grand Trunk gave low through transit rates, say from Chicago to New York, through Canada, and recouped itself by high non-competitive rates in Upper Canada. In 1888, the supervision of rates was assigned to the Railway Committee of the Privy Council, sitting in Ottawa.

At the turn of the century, two reports were prepared for the Department of Railways and Canals by Prof. S. J. McLean, the first setting down the experience of railway commissions in England and the United States, and the second discussing Canadian rate grievances, with a recommendation that regulation by commission be adopted in Canada. The second report found that non-competitive rates were exorbitant as compared with competitive rates and that the railways had exercised their right to vary rates without notice, to the great distress of shippers. Among the weaknesses of the Railway Committee as a rate-regulating body was its fixed station at Ottawa, which made the cost of appearing before it practically prohibitive. Besides, members of Parliament had no necessary aptitude for dealing with railway rates, and of their two functions—legislative and administrative—the legislative was to them the more important.

The Board of Railway Commissioners for Canada, as provided for by the amended Railway Act of 1903, was organized on Feb. 1, 1904. In the beginning, its membership consisted of a Chief Commissioner, a Deputy Chief and one Commissioner. In 1908 the membership was increased by the inclusion of an Assistant Chief Commissioner and two other Commissioners. According to the Act, the Board may be divided into two sections of three members but, since any two constitute a quorum, two Commissioners usually hear all but the more important cases, and, agreeing, give the decision of the Board.

The powers of the Commission, in brief, are in matters relating to the location, construction and operation of railways. The most important of these powers has to do with rate regulation. Passenger rates are divided into standard and special, freight rates into standard, special and competitive. Standard rates are maximum rates and the only ones which must be approved by the Board before they are applied. Special and competitive rates, being less than maximum rates, may be applied by railways without the Board's approval, provided that a change of rates has been advertised. But important rate adjustments usually come to the notice of the Commission, for the changed rate alters the extent of the territory in which a shipper can compete and on this account he is apt to appeal the case to the Commission. It is a knotty problem to mark the boundaries of competitive areas—to decide whether Nova Scotian manufacturers should be given rates which would allow them to compete west of Montreal, or again, whether high construction and operation costs in British Columbia should enforce a rate which prevents her goods from moving far into the prairies. By an amendment to the Railway Act, the regulation of telephone, telegraph and express rates was given to the Commission, but with narrower powers than were given to it in dealing with railways.

\*Revised by A. D. Cartwright, Secretary, Board of Railway Commissioners for Canada.

The procedure of the Board is informal, as suits the nature of its work, for experience has shown that hearings in strict legal form give the parties to the argument uncompromising attitudes. If possible, matters are settled by recommendations to the railway company or the shipper; thus, during 1933, 96.8 p.c. of the applications to the Board were settled without formal hearing. The Railway Committee had kept its station at Ottawa, giving only formal hearings, so that the grievances of those who could not afford to appear in person or pay counsel went unredressed. The itineraries of the Railway Commission are arranged so that evidence may be taken at the least expense to those giving it.

The Chief or Assistant Chief Commissioner, depending upon which one is presiding, gives final judgment on points of law when, in the opinion of the Commissioners, the question is one of law. On questions of fact the findings of the Board are final and are not qualified by previous judgments of any other court. Questions of law and jurisdiction are differentiated. In the first case, the Board may, if it wishes, allow an appeal to the Supreme Court; in the second, the applicant needs no permission to present his appeal.

The Railway Committee of the Privy Council, being a Committee of the Cabinet, was responsible to Parliament. When the powers of the Committee were made over to the Railway Commission the responsibility was retained, but necessarily by a different means. There is now provision for an appeal from any decision to the Governor General in Council, who may also of his own motion rescind or vary the action of the Board, but the power to rescind or vary usually consists in referring to the Board for reconsideration. From its inception until Dec. 31, 1933, the Board gave formal hearing to 10,092 cases. Its decision was appealed in 110 cases, 67 of these being to the Supreme Court of Canada and 43 to the Governor General in Council. Of the appeals 12 of those carried to the Supreme Court were allowed and 3 of those to the Governor General in Council.

## PART II.—STEAM RAILWAYS.\*

### Section 1.—Historical Sketch.

Construction was begun on the first Canadian railway in 1835. This was a line only 16 miles long between St. Johns and Laprairie, Quebec, intended to expedite the journey between Montreal and New York. It was opened for traffic in 1836, being operated at first with horses, for which steam locomotives were substituted a year later. About the same time, a line 6 miles long was built in Nova Scotia from Stellarton to a loading point on Pietou harbour to haul coal from the mines to vessels. On this line also the motive power was at first provided by horses, but in the spring of 1839 the "Samson", a locomotive built in England, brought over in a sailing vessel and still preserved in Halifax, was put in operation. A railway from Montreal to Lachine was opened in 1847 and another line to St. Hyacinthe in 1848. In 1850, however, there were only 66 miles of railway in Canada.

**Commencement of the Railway Era** *The Grand Trunk.*—The railway era in Canada may be said to have begun in 1851, when an Act was passed providing for the construction of a main line of railway between the two Canadas. The

\*Revised and checked by G. S. Wrong, B.Sc., Chief of the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics. This branch publishes an annual report on Steam Railways, as well as numerous other reports, for a full list of which the reader is referred to Chapter XXIX of this volume.

result was the completion of the Grand Trunk Railway between Montreal and Toronto in 1856, its extension westward to Sarnia in 1859, and eastward to Rivière du Loup in 1860. The Atlantic and St. Lawrence Railway, from Portland, Maine, to the Canadian boundary, was leased for 999 years and in 1859, on the completion of the Victoria bridge across the St. Lawrence at Montreal, the Grand Trunk had a through route 800 miles long from Portland to Sarnia. A line from Detroit to Port Huron was leased in 1859, the Champlain roads in 1863, the Buffalo and Lake Huron in 1867, while the Chicago and Grand Trunk was completed from Port Huron to Chicago in 1880. In 1881 the Georgian Bay and Lake Erie system (171 miles) was incorporated, and in the following year the Great Western (904 miles) and the Midland systems (473 miles) were also incorporated into the Grand Trunk. In 1888 the Northern Railway, which had been opened from Toronto to Barrie in 1853, and the Hamilton and Northwestern Railway were taken over by the Grand Trunk. In 1891 the completion of the St. Clair Tunnel gave direct communication with the railways of the United States. In the 1870's the gauge had been changed from the original 5' 6" to the standard gauge of 4' 8½".

**Construction of the Intercolonial.**—An intercolonial railway between the Maritime Provinces and Canada had been proposed as early as the 1830's. In 1844 the Imperial Government made a survey for a military road, and in 1851 agreed to recommend to Parliament either a guarantee of interest or an advance of the sum required to build a railroad. Differences of opinion as to the route resulted in the project being dropped, but in 1853 Nova Scotia undertook to construct by 1862 a trunk line from Halifax to the New Brunswick frontier, with branch lines to Pictou and Victoria Beach. In both Nova Scotia and New Brunswick, however, the scheme of an intercolonial railway broke down for lack of funds, and in 1867 there were only 374 miles of railway in the Maritimes—229 miles in New Brunswick, including lines from Saint John to Shediac and from St. Andrews to Richmond; 145 miles in Nova Scotia, including lines from Halifax to Truro and Windsor, and from Truro to Pictou. These, under the B.N.A. Act, passed to the Dominion Government. The latter undertook the completion of the railway, and in 1876 the line was opened. In 1879 the Rivière du Loup branch of the Grand Trunk was acquired, and in 1898 the Drummond Counties Railway from Chaudière Junction to Ste. Rosalie Junction was leased and running rights obtained from the latter point over the Grand Trunk tracks into Montreal, the Intercolonial thus becoming a competitor for the business of the commercial metropolis of Canada.

**The First Transcontinental Railway—The C.P.R.**—As early as 1849 a pamphlet published by Major Carmichael-Smyth advocated the construction of a Canadian Pacific railway nearly along the present route. In 1851 a Parliamentary Committee reported against undertaking the enterprise at that time. In 1871 the terms under which British Columbia entered Confederation bound the Dominion to commence the Pacific railway within two years and complete it within ten years. The building of the railway as a public work actually commenced in 1874, but was not very rapidly pushed forward. In 1880 the Government entered into a contract with the Canadian Pacific Railway syndicate, granting to the syndicate all portions of the line completed or under construction, a cash subsidy of \$25,000,000, a land grant of 25,000,000 acres, free admission of materials for construction, and protection for 20 years against competing lines. The company on its side agreed to complete the railway to a fixed standard by May 1, 1891, and thereafter to maintain it efficiently. As a matter of fact the last spike on the main line was driven on Nov. 7, 1885. Like the Grand Trunk, the Canadian Pacific Railway began to acquire



branch lines as feeders, among them being the North Shore, Quebec, Montreal, Ottawa and Occidental in 1881; the Winnipeg to Manitou line in 1882; the Ontario and Quebec, the Credit Valley and the Toronto, Grey and Bruce in 1883; the St. Lawrence and Ottawa, and the Manitoba Southwestern in 1884; the North Shore, Nova Scotia in 1885; the Atlantic and Northwest in 1886; the West Ontario Pacific in 1887; the Sudbury and Sault Ste. Marie in 1888; the New Brunswick Railway and the Columbia and Kootenay in 1890; and the Montreal and Ottawa, and Montreal and Lake Maskinongé in 1892.

**The Second Transcontinental—The Grand Trunk Pacific.**—About the end of the century the Grand Trunk, which already had a line as far west as Chicago, submitted to the Canadian Government a proposal whereby it might participate in the settlement and development of the West. Lines were to be leased from Chicago *via* Minneapolis to Winnipeg, and thence a new line, subsidized by the Government, would be built to the Pacific Coast. The Government raised objections to so much of the line lying in the United States and a second proposal was made for a connecting line with larger subsidies from North Bay to Winnipeg. The Government submitted, in 1903, a counter proposal that the line, instead of terminating at North Bay, should be continued east to Moncton, New Brunswick, the eastern section from Moncton to Winnipeg to be constructed by the Government and leased to the Grand Trunk Pacific for a 50-year period, the railway paying no rent for the first seven years and 3 p.c. on the cost of the railway for the remaining 43 years. The western half of the railway from Winnipeg to Prince Rupert was to be built by the Grand Trunk Pacific, the Government guaranteeing interest on bonds to 75 p.c. of the cost of construction, not exceeding \$13,000 per mile on the prairie section and \$30,000 per mile on the mountain section. The Grand Trunk reluctantly accepted this proposition and construction of the National Transcontinental and Grand Trunk Pacific commenced.

**The Third Transcontinental—The Canadian Northern Railway.**—The third transcontinental railway, the Canadian Northern, was begun in 1896 with the completion by Mackenzie and Mann of the 125-mile line of the Lake Manitoba Railway and Canal Co., chartered in 1889. The charters of the Winnipeg and Hudson Bay, the Manitoba and Southeastern, the Ontario and Rainy River, and the Port Arthur, Duluth and Western were next acquired. Assisted by the Manitoba Government, which desired to establish competition with the Canadian Pacific Railway, the Canadian Northern then secured the Manitoba lines of the Northern Pacific and in 1902 completed its line from Winnipeg to Port Arthur. During the following decade, the agricultural west was filling up very rapidly and, with the public of Canada under the influence of this boom, the Canadian Northern Railway was able to secure guarantees of bonds from the Dominion and Provincial Governments to enable it to extend its lines both westward to Vancouver and eastward to Montreal and so complete the great scheme of a transcontinental road.

**Effect of the War on the Railways—The Drayton-Acworth Report.**—With two new transcontinental main lines, besides branches, under construction Canadian railway mileage was doubled between 1900 and 1915, increasing from 17,657 miles in the former year to 34,882 miles in the latter. The builders of the new lines, as well as the Canadian Government and people, had expected that immigration of capital and labour from Europe would rapidly settle the areas tributary to the new railroads and give them abundant and lucrative traffic, as had been the case with the C.P.R. Instead, the War came, and European labour



and capital were conscripted for the struggle; immigration fell off, while cost of operation increased, owing to the scarcity of labour and material in Canada. The interest on the bonds had to be met, and in 1915 the Government felt it necessary to give assistance to the railways. In 1916, after having again made loans to the Grand Trunk Pacific Railway and the Canadian Northern Railway Co., a Royal Commission was appointed by Order in Council of July 13, 1916, to investigate : (1) the general problem of transportation, (2) the status of each of the three trans-continental systems, (3) the reorganization of any of the said systems, or their acquisition by the State, and (4) other matters considered by the Commission to be relevant to the general scope of the inquiry. The majority report of the Commission, signed by Sir Henry Drayton and Mr. Acworth, has formed the basis of the subsequent railway policy of Canada. Their recommendation was that the public should take control of the Canadian Northern, of the Grand Trunk Pacific and the Grand Trunk proper, and that they should be administered on purely business principles by a board of trustees, such compensation as seemed proper to be decided by arbitration and given to the shareholders of the Canadian Northern and the Grand Trunk.

The process of the acquisition of these railways and the financial results of their operation down to the end of 1933 are described in Section 3, pp. 714-725.

**The Royal Commission of 1931.**—During 1930 and 1931 both freight and passenger traffic declined until new low records were being established each succeeding month. Freight and passenger revenues consequently decreased at alarming rates and with increasing capital expenditures and fixed charges, the financial condition of Canadian railways demanded readjustment. The dividend rate of the Canadian Pacific Railway was reduced from 10 p.c. to 5 p.c. for the second and fourth quarters of 1931 and early in 1931 it was evident that the Canadian National system would not earn the interest due on the public holdings of its bonds and debentures, not to speak of over \$32,000,000 interest on Government loans. To study the situation and, if possible, to remedy it, the Government appointed a Royal Commission under the chairmanship of the Rt. Hon. L. P. (now Sir Lyman) Duff, Judge of the Supreme Court of Canada, which held hearings throughout the country and on Sept. 13, 1932, submitted its report, summarized at pp. 648-650 of the 1933 Year Book. During the following session of the Dominion Parliament legislation known as The Canadian National-Canadian Pacific Act, (c. 33) 1933, was passed implementing the report of the Commission.

Under this Act the former Board of Directors of the Canadian National Railways is replaced by a board of three trustees, the chairmanship of which is a full-time position. The members are appointed for terms of five years and shall not be removed from office unless for assigned cause and on Address of the Senate and House of Commons. Decisions of the majority, which must include the chairman, will prevail. The trustees must submit each year estimates of requirements to Parliament through the Finance Minister and income deficits shall not be funded. The trustees shall also present annual reports to Parliament through the Minister of Railways and Canals. Continuous audit shall be made by independent auditors appointed annually by Parliament.

Under Part II of the Act the Canadian National and Canadian Pacific Railways are required to co-operate as recommended by the report of the Commission and, in addition, the railways are to divide the employment of such co-operative

activities between the employees of the two railways, the division to be made by negotiations with the employees.

The co-operative measures may include:—

- (a) New companies controlled by stock ownership, equitably apportioned between the companies;
- (b) Leases, entrusting agreements, or licences, or agreements for pooling and division of earnings arising from the joint operation of any part or parts of freight or passenger traffic, or express, telegraph, or other operating activities or services;
- (c) Joint trackage, running rights, joint ownership, or joint operating agreements, depending upon the nature of the property or services included in any co-operative plan;
- (d) Joint or individual highway services, or highway and railway services combined, in any form.

In the formation of any new company, the employees in any services taken over by the new company shall be given preference.

Under Part III provision is made for the erection of a tribunal with jurisdiction as recommended by the Commission, except that clause (e) "abandonment of lines, services and facilities" is struck out. The powers of the tribunal may be invoked by either company and decisions of the presiding officer and one member shall be final and binding on both railways, even if one railway fails to appoint a representative. The orders of the tribunal shall be binding and enforced in the same manner as orders of the Board of Railway Commissioners and shall not be subject to appeal except as to jurisdiction and only to the Supreme Court of Canada. Where an order of the tribunal conflicts with an order of the Board of Railway Commissioners the former shall prevail. Where a dispute is of substantial concern to the public, or affects any province, the presiding officer shall give due notice and the interested parties may be heard at the sitting.

The Act does not authorize the amalgamation or unified management of the two railways.

## Section 2.—Statistics of Steam Railways.

The steam railways of the world may be said to have commenced their operation with the opening of the Stockton and Darlington railway in England on Sept. 26, 1825. Between then and 1933 the mileage of the steam railways of the world had increased to a total of approximately 783,000 miles. Nearly a third of this total was in the United States, which had a total of 247,595 miles in 1932. Soviet Russia came second with 55,926 miles, British India third with 42,961 miles and Canada fourth with 42,338 miles. France had 26,113 miles, Germany 36,405 miles, Great Britain 20,251 miles, Australia 27,798 miles, Argentina 25,451 miles, Brazil 19,853 miles and Mexico 14,506 miles. On a per capita basis Australia had the greatest mileage with only 238 inhabitants per mile of line, and Canada was second with 254 persons per mile of line, (exclusive of 341 miles of line, chiefly main lines of Canadian railways, crossing over United States territory).

The mileage of steam railways in operation in Canada is given by years for each year from 1850 to 1933 in Table 1, showing the first great period of construction in the 1850's, when the mileage grew from 66 to 2,065, the lull in the 1860's, the second great period of construction in the 1870's and 1880's, the lull in the 1890's, the third great period of construction between 1900 and 1917 and the subsequent falling-off in the rate of increase.

**1.—Record of Steam Railway Mileage as at June 30, 1835-1919, and Dec. 31, 1919-33.**

| Year.    | Miles in Operation. | Year.    | Miles in Operation. | Year.    | Miles in Operation. | Year.    | Miles in Operation. | Year.    | Miles in Operation. | Year.    | Miles in Operation. |
|----------|---------------------|----------|---------------------|----------|---------------------|----------|---------------------|----------|---------------------|----------|---------------------|
| No.      | No.                 | No.      | No.                 | No.      | No.                 | No.      | No.                 | No.      | No.                 | No.      | No.                 |
| 1835.... | -                   | 1862.... | 2,189               | 1877.... | 5,782               | 1892.... | 14,564              | 1907.... | 22,446              | 1921.... | 39,192              |
| 1836-46. | 16                  | 1863.... | 2,189               | 1878.... | 6,226               | 1893.... | 15,005              | 1908.... | 22,966              | 1922.... | 39,360              |
| 1847-49. | 54                  | 1864.... | 2,189               | 1879.... | 6,858               | 1894.... | 15,627              | 1909.... | 24,104              | 1923.... | 39,656              |
| 1850.... | 66                  | 1865.... | 2,240               | 1880.... | 7,194               | 1895.... | 15,977              | 1910.... | 24,731              | 1924.... | 40,061              |
| 1851.... | 159                 | 1866.... | 2,278               | 1881.... | 7,331               | 1896.... | 16,270              | 1911.... | 25,400              | 1925.... | 40,352              |
| 1852.... | 205                 | 1867.... | 2,278               | 1882.... | 8,697               | 1897.... | 16,550              | 1912.... | 26,840              | 1926.... | 40,352              |
| 1853.... | 506                 | 1868.... | 2,270               | 1883.... | 9,577               | 1898.... | 16,870              | 1913.... | 29,304              | 1927.... | 40,572              |
| 1854.... | 764                 | 1869.... | 2,524               | 1884.... | 10,273              | 1899.... | 17,250              | 1914.... | 30,795              | 1928.... | 41,024              |
| 1855.... | 877                 | 1870.... | 2,617               | 1885.... | 10,773              | 1900.... | 17,657              | 1915.... | 34,882              | 1929.... | 41,382 <sup>1</sup> |
| 1856.... | 1,414               | 1871.... | 2,695               | 1886.... | 11,793              | 1901.... | 18,140              | 1916.... | 36,985              | 1930.... | 42,049 <sup>1</sup> |
| 1857.... | 1,444               | 1872.... | 2,899               | 1887.... | 12,184              | 1902.... | 18,714              | 1917.... | 38,369              | 1931.... | 42,282 <sup>1</sup> |
| 1858.... | 1,863               | 1873.... | 3,832               | 1888.... | 12,163              | 1903.... | 18,988              | 1918.... | 38,252              | 1932.... | 42,411              |
| 1859.... | 1,994               | 1874.... | 4,331               | 1889.... | 12,628              | 1904.... | 19,431              | 1919.... | 38,330              | 1933.... | 42,338              |
| 1860.... | 2,065               | 1875.... | 4,804               | 1890.... | 13,151              | 1905.... | 20,487              | 1919.... | 38,496              |          |                     |
| 1861.... | 2,146               | 1876.... | 5,218               | 1891.... | 13,838              | 1906.... | 21,423              | 1920.... | 38,806              |          |                     |

<sup>1</sup>Revised since the publication of the 1933 Year Book.

The operated mileage in the different provinces is given for recent years in Table 2. Construction was most active in Saskatchewan and Alberta during the period covered, as will be seen from the increased mileage recorded in these provinces.

**2.—Operated Steam Railway Mileage, by Provinces, Dec. 31, 1925-33.**

| Province and Type of Track.      | 1925.         | 1926.         | 1927.         | 1928.         | 1929. <sup>1</sup> | 1930. <sup>1</sup> | 1931. <sup>1</sup> | 1932.         | 1933.         |
|----------------------------------|---------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|
|                                  | miles.        | miles.        | miles.        | miles.        | miles.             | miles.             | miles.             | miles.        | miles.        |
| <b>Single Track—</b>             |               |               |               |               |                    |                    |                    |               |               |
| Prince Edward Island...          | 276           | 276           | 276           | 276           | 276                | 286                | 286                | 286           | 286           |
| Nova Scotia.....                 | 1,427         | 1,426         | 1,424         | 1,421         | 1,420              | 1,418              | 1,418              | 1,410         | 1,410         |
| New Brunswick.....               | 1,935         | 1,935         | 1,935         | 1,935         | 1,934              | 1,934              | 1,934              | 1,934         | 1,934         |
| Quebec.....                      | 4,797         | 4,767         | 4,859         | 4,910         | 4,891              | 4,891              | 4,926              | 4,879         | 4,863         |
| Ontario.....                     | 10,908        | 10,870        | 10,834        | 10,866        | 10,872             | 10,938             | 10,905             | 10,908        | 10,880        |
| Manitoba.....                    | 4,540         | 4,296         | 4,293         | 4,293         | 4,294              | 4,420              | 4,419              | 4,420         | 4,433         |
| Saskatchewan.....                | 7,056         | 7,268         | 7,358         | 7,551         | 7,761              | 8,166              | 8,268              | 8,438         | 8,438         |
| Alberta.....                     | 4,965         | 5,048         | 5,139         | 5,307         | 5,516              | 5,581              | 5,630              | 5,652         | 5,654         |
| British Columbia.....            | 4,117         | 4,072         | 4,060         | 4,071         | 4,024              | 4,021              | 4,097              | 4,085         | 4,041         |
| Yukon.....                       | 58            | 58            | 58            | 58            | 58                 | 58                 | 58                 | 58            | 58            |
| In United States.....            | 273           | 336           | 336           | 336           | 336                | 336                | 341                | 341           | 341           |
| <b>Totals, Single Track.....</b> | <b>40,352</b> | <b>40,352</b> | <b>40,572</b> | <b>41,024</b> | <b>41,382</b>      | <b>42,049</b>      | <b>42,282</b>      | <b>42,411</b> | <b>42,338</b> |
| Second track.....                | 2,614         | 2,620         | 2,647         | 2,639         | 2,659              | 2,690              | 2,690              | 2,684         | 2,533         |
| Industrial track.....            | 1,555         | 1,591         | 1,611         | 1,662         | 1,607              | 1,623              | 1,606              | 1,578         | 1,534         |
| Yard track and sidings...        | 9,579         | 9,716         | 9,887         | 10,130        | 10,183             | 10,242             | 10,292             | 10,350        | 10,293        |
| <b>Grand Totals, All Tracks</b>  | <b>54,100</b> | <b>54,279</b> | <b>54,717</b> | <b>55,455</b> | <b>55,831</b>      | <b>56,604</b>      | <b>56,870</b>      | <b>57,023</b> | <b>56,698</b> |

<sup>1</sup>Revised since the publication of the 1933 Year Book.

**Capital Liability.**—The capital liability of the steam railways of Canada is shown in Table 3 for the years 1901 to 1933. The great increase after 1922 is due to the inclusion of all Government loans to railways and investment in road and equipment of Government railways as part of the capital liability of the railways. Statistics of individual lines are given in Tables 4 and 4A.

### 3.—Capital Liability of Steam Railways, as at June 30, 1901-19, and Dec. 31, 1919-33.

NOTE.—Corresponding figures for each year from 1876 to 1900 inclusive were given on p. 649 of the 1927-28 Year Book.

| Year.   | Stocks.       | Funded Debt. | Total.        | Year.                 | Stocks.       | Funded Debt.               | Total.                     |
|---------|---------------|--------------|---------------|-----------------------|---------------|----------------------------|----------------------------|
|         | \$            | \$           | \$            |                       | \$            | \$                         | \$                         |
| 1901... | 424,414,314   | 391,696,523  | 816,110,837   | 1918...               | 1,093,885,495 | 905,994,999                | 1,999,880,494              |
| 1902... | 460,401,863   | 404,806,847  | 865,208,710   | 1919 <sup>1</sup> ... | 1,100,301,195 | 914,823,515                | 2,015,124,710              |
| 1903... | 483,770,312   | 424,100,762  | 907,871,074   | 1919 <sup>4</sup> ... | 1,104,409,122 | 931,756,484                | 2,036,165,606              |
| 1904... | 492,752,530   | 449,114,035  | 941,866,565   | 1920...               | 1,323,705,962 | 846,324,166                | 2,170,030,128              |
| 1905... | 526,353,951   | 465,543,967  | 991,897,918   | 1921...               | 1,372,545,165 | 792,142,471                | 2,164,687,636              |
| 1906... | 561,655,395   | 504,226,234  | 1,065,881,629 | 1922...               | 1,415,623,322 | 743,653,809                | 2,159,277,131              |
| 1907... | 588,568,591   | 583,369,217  | 1,171,937,808 | 1923...               | 1,385,080,426 | 1,879,563,612 <sup>1</sup> | 3,264,674,038 <sup>1</sup> |
| 1908... | 607,891,349   | 631,869,664  | 1,239,761,013 | 1924...               | 1,401,263,285 | 2,012,602,328 <sup>1</sup> | 3,413,865,613 <sup>1</sup> |
| 1909... | 647,534,647   | 660,946,769  | 1,308,481,416 | 1925...               | 1,378,706,860 | 2,092,374,049 <sup>1</sup> | 3,471,080,909 <sup>1</sup> |
| 1910... | 687,557,387   | 722,740,300  | 1,410,297,687 | 1926 <sup>2</sup> ... | 1,361,758,426 | 2,144,999,621 <sup>1</sup> | 3,506,758,047 <sup>1</sup> |
| 1911... | 749,207,687   | 779,481,514  | 1,528,689,201 | 1927 <sup>2</sup> ... | 1,330,215,248 | 2,252,256,367 <sup>1</sup> | 3,582,471,615 <sup>1</sup> |
| 1912... | 770,459,351   | 818,478,175  | 1,588,937,526 | 1928 <sup>2</sup> ... | 1,357,017,703 | 2,306,554,996 <sup>1</sup> | 3,663,572,699 <sup>1</sup> |
| 1913... | 918,573,740   | 613,256,952  | 1,531,830,692 | 1929 <sup>2</sup> ... | 1,405,622,070 | 2,497,054,907 <sup>1</sup> | 3,902,676,977 <sup>1</sup> |
| 1914... | 1,026,418,123 | 782,402,638  | 1,808,820,761 | 1930 <sup>2</sup> ... | 1,431,324,003 | 2,595,145,308 <sup>1</sup> | 4,026,469,311 <sup>1</sup> |
| 1915... | 1,024,085,983 | 851,724,905  | 1,875,810,888 | 1931 <sup>2</sup> ... | 1,438,050,759 | 2,793,971,329 <sup>1</sup> | 4,232,022,088 <sup>1</sup> |
| 1916... | 1,024,264,325 | 868,861,449  | 1,893,125,774 | 1932 <sup>2</sup> ... | 1,437,489,430 | 2,934,182,332 <sup>1</sup> | 4,371,671,762 <sup>1</sup> |
| 1917... | 1,089,114,875 | 896,005,116  | 1,985,119,991 | 1933 <sup>2</sup> ... | 1,438,834,552 | 2,951,690,468 <sup>1</sup> | 4,390,525,020 <sup>1</sup> |

<sup>1</sup>Includes all Government loans to railways and investment in road and equipment of Dominion and provincial railways. <sup>2</sup>Does not include Canadian railway capital owned by Canadian railways.

<sup>3</sup>June 30. <sup>4</sup>Dec. 31.

### 4.—Mileage, Capital Liability, Earnings and Operating Expenses of Individual Steam Railways for the calendar year 1932.

| Railway.                              | Single Track Mileage.  | Capital Liability.         | Gross Earnings from Operation. | Operating Expenses. |
|---------------------------------------|------------------------|----------------------------|--------------------------------|---------------------|
|                                       | miles.                 | \$                         | \$                             | \$                  |
| Algoma Central Terminals, Ltd.        | —                      | 3,095,628                  | —                              | —                   |
| Algoma Central and Hudson Bay         | 323.75                 | 15,558,850                 | 977,761                        | 1,037,830           |
| Alma and Jonquière                    | 10.60                  | 629,800                    | 61,451                         | 48,202              |
| Brandon, Sask. and Hudson Bay         | 84.72                  | 2,602,000                  | 33,808                         | 86,431              |
| British Yukon                         | 90.32                  | 4,978,879                  | 129,121                        | 95,717              |
| Canada and Gulf Terminal              | 38.10                  | 1,740,000                  | 59,014                         | 70,271              |
| Canada Southern                       | 381.04                 | 44,365,000                 | 10,627,771                     | 6,410,204           |
| Canadian National                     | 21,944.95 <sup>1</sup> | 3,039,986,954 <sup>2</sup> | 139,948,317                    | 134,300,983         |
| Canadian Pacific                      | 17,044.70              | 1,177,470,318 <sup>2</sup> | 123,509,370                    | 99,671,078          |
| Central Vermont Railway, Inc.         | 25.33 <sup>1</sup>     | —                          | 157,796                        | 172,567             |
| Crow's Nest Southern                  | 53.32                  | 4,295,000                  | 33,651                         | 39,736              |
| Cumberland Railway and Coal Co.       | 31.29                  | 1,350,242                  | 139,706                        | 101,682             |
| Detroit River Tunnel Co.              | 3.26                   | 21,000,000                 | —                              | —                   |
| Eastern British Columbia              | 13.04                  | 420,000                    | 102,505                        | 100,717             |
| Essex Terminal                        | 21.44                  | 1,120,000                  | 146,044                        | 110,266             |
| Greater Winnipeg Water District       | 92.00                  | 1,820,792                  | 110,188                        | 103,999             |
| International Bridge and Terminal Co. | 1.06                   | 300,000                    | —                              | —                   |
| Maine Central                         | 5.10                   | 101,707                    | 7,481                          | 11,348              |
| Maritime Coal, Railway and Power Co.  | 16.40                  | 441,493                    | 106,369                        | 66,590              |

For footnotes see end of table, p. 701.



#### 4.—Mileage, Capital Liability, Earnings and Operating Expenses of Individual Steam Railways for the calendar year 1932—concluded.

| Railway.                                                        | Single<br>Track<br>Mileage. | Capital<br>Liability.            | Gross<br>Earnings<br>from<br>Operation. | Operating<br>Expenses. |
|-----------------------------------------------------------------|-----------------------------|----------------------------------|-----------------------------------------|------------------------|
|                                                                 | miles.                      | \$                               | \$                                      | \$                     |
| Massawippi Valley.....                                          | 4                           | 800,000                          | —                                       | —                      |
| Midland Railway of Manitoba.....                                | 75-76                       | 4,800,000                        | 188,643                                 | 303,267                |
| Morrissey, Fernie and Michel.....                               | 5-37                        | 1,263,000                        | 37,980                                  | 64,682                 |
| Napierville Junction.....                                       | 43-04                       | 1,200,000                        | 333,618                                 | 270,851                |
| Nelson and Fort Sheppard.....                                   | 60-87                       | 2,846,800                        | 46,287                                  | 80,243                 |
| Nipissing Central <sup>1</sup> .....                            | 59-74                       | —                                | 276,675                                 | 208,181                |
| Northern Alberta.....                                           | 927-62                      | 29,595,000                       | 1,681,483                               | 1,330,503              |
| Ottawa and New York.....                                        | 58-77                       | 2,100,000                        | 134,550                                 | 188,915                |
| Pacific Great Eastern.....                                      | 347-80                      | 72,790,893                       | 374,563                                 | 442,632                |
| Père Marquette (including L.E.D.R.).....                        | 337-10                      | 11,122,026                       | 3,135,541                               | 1,874,979              |
| Quebec Railway, Light and Power Co.....                         | 25-55                       | 6,265,670                        | 273,044                                 | 330,152                |
| Roberval and Saguenay.....                                      | 44-34                       | 3,330,000                        | 230,759                                 | 136,515                |
| St. Lawrence and Adirondack.....                                | 60-69                       | 2,153,599                        | 525,850                                 | 528,732                |
| Sydney and Louisburg.....                                       | 70-39                       | 4,923,192                        | 871,403                                 | 670,007                |
| Temiscouata.....                                                | 113-00                      | 3,856,336                        | 159,502                                 | 167,669                |
| Temiskaming and Northern Ontario <sup>2</sup> .....             | 531-69                      | 43,207,935                       | 3,653,514                               | 2,925,339              |
| Thousand Islands.....                                           | 4-51                        | 60,000                           | 25,701                                  | 28,614                 |
| Toronto, Hamilton and Buffalo.....                              | 111-03                      | 10,695,000                       | 1,394,043                               | 1,202,351              |
| Toronto Terminals.....                                          | 4                           | 24,024,700                       | —                                       | —                      |
| Van Buren Bridge Co.....                                        | 0-36                        | 500,000                          | —                                       | —                      |
| Vancouver, Victoria and Eastern.....                            | 241-42                      | 23,500,000                       | 286,576                                 | 360,876                |
| Wabash (in Canada).....                                         | 245-40                      | —                                | 3,630,330                               | 3,126,246              |
| <b>Totals (Including Trackage Rights<br/>Duplications).....</b> | <b>43,544-87</b>            | <b>4,570,310,814<sup>3</sup></b> | <b>293,390,415</b>                      | <b>256,668,375</b>     |
| Canadian National (Can. and U.S.).....                          | 23,770-79                   | —                                | 161,103,594                             | 155,208,161            |

<sup>1</sup>Canadian lines only. <sup>2</sup>Including capital of leased lines. <sup>3</sup>Constructed and operated by Ontario Government Railway Commission. <sup>4</sup>Included with Canadian Pacific Ry. <sup>5</sup>Includes \$198,639,052 Canadian railway capital owned by Canadian railways.

#### 4A.—Mileage, Capital Liability, Earnings and Operating Expenses of Individual Steam Railways for the calendar year 1933.

| Railway.                                  | Single<br>Track<br>Mileage. | Capital<br>Liability.      | Gross<br>Earnings<br>from<br>Operation. | Operating<br>Expenses. |
|-------------------------------------------|-----------------------------|----------------------------|-----------------------------------------|------------------------|
|                                           | miles.                      | \$                         | \$                                      | \$                     |
| Algoma Central Terminals, Ltd.....        | —                           | 3,095,628                  | —                                       | —                      |
| Algoma Central and Hudson Bay.....        | 323-75                      | 15,526,850                 | 990,421                                 | 964,710                |
| Alma and Jonquière.....                   | 10-60                       | 629,800                    | 27,649                                  | 32,129                 |
| Brandon, Sask. and Hudson Bay.....        | 84-72                       | 2,602,000                  | 36,775                                  | 60,680                 |
| British Yukon.....                        | 90-32                       | 4,978,879                  | 123,790                                 | 39,774                 |
| Canada and Gulf Terminal.....             | 38-10                       | 1,740,000                  | 54,056                                  | 59,603                 |
| Canada Southern.....                      | 381-15                      | 44,365,000                 | 11,117,318                              | 6,483,328              |
| Canadian National.....                    | 21,940-52 <sup>1</sup>      | 3,081,497,967 <sup>2</sup> | 126,701,228                             | 122,572,230            |
| Canadian Pacific.....                     | 17,017-70                   | 1,207,608,318 <sup>2</sup> | 113,998,658                             | 89,261,849             |
| Central Vermont Railway, Inc.....         | 25-33 <sup>1</sup>          | —                          | 102,562                                 | 142,150                |
| Crow's Nest Southern.....                 | 53-32                       | 4,295,000                  | 6,785                                   | 28,619                 |
| Cumberland Railway and Coal Co.....       | 31-29                       | 1,352,508                  | 128,918                                 | 92,173                 |
| Detroit River Tunnel Co.....              | 3-26                        | 21,000,000                 | —                                       | —                      |
| Eastern British Columbia.....             | 13-04                       | 420,000                    | 76,532                                  | 69,689                 |
| Essex Terminal.....                       | 21-44                       | 978,000                    | 130,858                                 | 94,499                 |
| Greater Winnipeg Water District.....      | 92-00                       | 1,820,739                  | 131,725                                 | 97,152                 |
| International Bridge and Terminal Co..... | 1-06                        | 300,000                    | —                                       | —                      |
| Maine Central.....                        | 5-10                        | 101,677                    | 7,574                                   | 9,976                  |
| Maritime Coal, Railway and Power Co.....  | 16-40                       | 441,600                    | 99,447                                  | 56,191                 |

For footnotes see end of table, p. 702.

**4A.—Mileage, Capital Liability, Earnings and Operating Expenses of Individual Steam Railways for the calendar year 1933—concluded.**

| Railway.                                                         | Single<br>Track<br>Mileage. | Capital<br>Liability.            | Gross<br>Earnings<br>from<br>Operation. | Operating<br>Expenses. |
|------------------------------------------------------------------|-----------------------------|----------------------------------|-----------------------------------------|------------------------|
|                                                                  | miles.                      | \$                               | \$                                      | \$                     |
| Massawippi Valley.....                                           | <sup>4</sup>                | 800,000                          | —                                       | —                      |
| Midland Railway of Manitoba.....                                 | 75-74                       | 4,800,000                        | 171,038                                 | 314,373                |
| Morrissey, Fernie and Michel.....                                | 5-37                        | 1,263,000                        | 14,182                                  | 21,456                 |
| Napierville Junction.....                                        | 41-74                       | 1,200,000                        | 310,558                                 | 242,387                |
| Nelson and Fort Sheppard.....                                    | 60-87                       | 2,846,800                        | 65,524                                  | 71,082                 |
| Nipissing Central <sup>1</sup> .....                             | 59-74                       | —                                | 240,150                                 | 194,813                |
| Northern Alberta.....                                            | 927-62                      | 29,595,000                       | 1,504,352                               | 1,201,306              |
| Ottawa and New York.....                                         | 58-77                       | 2,100,000                        | 119,011                                 | 176,915                |
| Pacific Great Eastern.....                                       | 347-80                      | 75,901,606                       | 557,981                                 | 480,999                |
| Père Marquette (including L.E.D.R.).....                         | 336-69                      | 8,122,026                        | 3,236,356                               | 1,956,780              |
| Quebec Railway, Light and Power Co.....                          | 25-37                       | 6,265,670                        | 238,969                                 | 285,390                |
| Roberval and Saguenay.....                                       | 29-04                       | 3,330,000                        | 226,817                                 | 119,825                |
| St. Lawrence and Adirondack.....                                 | 60-69                       | 2,153,599                        | 374,510                                 | 460,737                |
| Sydney and Louisburg.....                                        | 70-39                       | 4,925,032                        | 1,022,520                               | 780,845                |
| Temiscouata.....                                                 | 113-00                      | 3,856,336                        | 149,591                                 | 146,915                |
| Temiskaming and Northern Ontario <sup>2</sup> .....              | 531-69                      | 43,207,935                       | 3,226,373                               | 2,521,897              |
| Thousand Islands.....                                            | 4-51                        | 60,000                           | 24,249                                  | 25,668                 |
| Toronto, Hamilton and Buffalo.....                               | 111-03                      | 10,695,000                       | 1,230,219                               | 969,183                |
| Toronto Terminals.....                                           | 3-10                        | 24,224,800                       | —                                       | —                      |
| Van Buren Bridge Co.....                                         | 0-36                        | 500,000                          | —                                       | —                      |
| Vancouver, Victoria and Eastern.....                             | 150-48                      | 23,500,000                       | 248,742                                 | 225,099                |
| Wabash (in Canada).....                                          | 245-40                      | —                                | 3,574,780                               | 2,780,035              |
| Winnipeg River.....                                              | 13-40                       | 413,402                          | 8,058                                   | 12,651                 |
| <b>Totals (including trackage rights<br/>duplications)</b> ..... | <b>43,421-90</b>            | <b>4,592,514,172<sup>3</sup></b> | <b>270,278,276</b>                      | <b>233,133,108</b>     |
| Canadian National (Canada and U.S.).....                         | 23,750-03                   | —                                | 148,519,742                             | 142,812,559            |

<sup>1</sup>Canadian lines only. <sup>2</sup>Including capital of leased lines. <sup>3</sup>Constructed and operated by Ontario Government Railway Commission. <sup>4</sup>Included with Canadian Pacific Ry. <sup>5</sup>Includes \$201,989,152 Canadian railway capital owned by Canadian railways.

**Capital Investment.**—The capital investment in road and equipment of Canadian steam railways is shown in Table 5 for the calendar years 1928–33. The table gives the investment in new lines and in additions and betterments during the year, together with the cumulative total of such investments as at the end of each year. During 1933, \$208,671 was invested in new lines and \$107,684 in additions and betterments, while up to Dec. 31, 1933, a total of \$3,365,464,255 had been invested in road and equipment of Canadian steam railways. When comparison is made with the figures of Table 3, it is seen that the capital liability of the steam railways was considerably greater than the actual investment in physical property by the railways at the same date. This discrepancy is largely accounted for by the fact that the total of capital liabilities as shown in Table 3 includes loans and advances from the Government to cover deficits of the Canadian National Railways and unpaid accrued interest on such loans which, up to Dec. 31, 1933, amounted to \$424,338,109 as shown in Table 21. A further factor in the discrepancy is that some of the outstanding railway stocks represent little actual investment in physical property.

### 5.—Capital Invested in Road and Equipment of Canadian Steam Railways, calendar years 1928-33.

| Investment.                                    | 1928.                       | 1929.                      | 1930.                       | 1931.                      | 1932.                | 1933.                        |
|------------------------------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|----------------------|------------------------------|
|                                                | \$                          | \$                         | \$                          | \$                         | \$                   | \$                           |
| New Lines—                                     |                             |                            |                             |                            |                      |                              |
| Road.....                                      | 30,003,540                  | 37,210,328                 | 24,397,606                  | 20,761,545                 | 3,175,095            | 195,729                      |
| Equipment.....                                 | 351,447                     | 31,125                     | 31,167                      | 632                        | —                    | 12,322                       |
| General.....                                   | 488,806                     | 869,773                    | 536,602                     | 1,588,103                  | 371,262              | 620                          |
| Totals.....                                    | 30,843,793                  | 38,111,226                 | 24,965,375                  | 22,350,280                 | 3,546,357            | 208,671                      |
| Additions and Betterments—                     |                             |                            |                             |                            |                      |                              |
| Road.....                                      | 33,682,796                  | 44,445,646                 | 40,885,501                  | 21,704,352                 | 3,728,615            | 3,927,865                    |
| Equipment.....                                 | 11,432,446                  | 59,240,026                 | 32,839,021                  | 19,113,108                 | Cr. 4,090,763        | Cr. 3,930,692                |
| General.....                                   | 2,659,759                   | 3,210,802                  | 3,380,533                   | 1,916,857                  | 117,254              | 17,921                       |
| Undistributed                                  | Cr. 75,020                  | 30,211                     | Cr. 48,662                  | 69,754                     | Cr. 24,836           | 92,590                       |
| Totals.....                                    | 47,609,981                  | 106,926,685                | 77,056,393                  | 42,804,071                 | Cr. 269,730          | 107,684                      |
| Undistributed..                                | Cr. 12,454,178 <sup>1</sup> | Cr. 8,878,496 <sup>2</sup> | Cr. 15,223,021 <sup>3</sup> | Cr. 8,597,547 <sup>4</sup> | 977,301 <sup>5</sup> | Cr. 103,494,638 <sup>6</sup> |
| <b>Totals, Investments, as at Dec. 31.....</b> | <b>3,184,873,644</b>        | <b>3,321,033,059</b>       | <b>3,407,831,806</b>        | <b>3,464,388,610</b>       | <b>3,468,642,538</b> | <b>3,365,464,255</b>         |

<sup>1</sup>Includes a credit of \$13,477,505 on account of Canadian National property transferred to Harbour Commissions of Halifax and Saint John.

<sup>2</sup>Includes difference between purchase price of Atlantic, Quebec and Western; Kent Northern; Quebec, Montreal and Southern; and Quebec Oriental Railways and investment reported in 1928—a credit of \$7,198,024; difference between valuation of Northern Alberta Railways and investment of Alberta and Great Waterways; Central Canada; Edmonton, Dunvegan and British Columbia; and Pembina Valley Railways as at June 30, 1929—a credit of \$5,639,429; a credit of \$1,869,859 for the Hereford Railway which ceased operation; and additions and betterments to separately operated properties and other undistributed items amounting to a debit of \$5,828,816.

<sup>3</sup>Credit of \$18,180,692 for Canadian Northern and Grand Trunk Pacific rails lifted during the War for use in France and other lines dismantled after consolidation of the Canadian National system.

<sup>4</sup>Includes a credit of \$6,928,410 due to balance sheet transfers, and a credit of \$1,359,261 for additions and betterments to separately operated properties of Canadian National Railways and miscellaneous credits amounting to \$309,876.

<sup>5</sup>Includes \$2,900,000 due to balance sheet transfers, a credit of \$179,805 for additions and betterments to separately operated properties of the Canadian National Railways and a credit of \$1,742,894 due to adjustments in investment in leased lines of the Canadian Pacific Railway.

<sup>6</sup>Includes a credit of \$1,792,204 due to balance sheet transfers of the Canadian National Railways; a credit of \$139,806 due to balance sheet transfers and a credit of \$40,295 for additions and betterments to its separately operated properties, also a debit of \$14,883,870 covering investments of its leased lines not shown in previous years; a credit of \$84,376,267 due to adjustments of expenditures of the Canadian Pacific Railway to Dec. 31, 1932, largely investments in hotels and office buildings previously carried as railway investment, and a debit of \$2,000 due to correction of expenditures for its leased and acquired lines; a credit of \$32,445,146 due to adjustments in investments of the Pacific Great Eastern Railway and a debit of \$413,210 for the Winnipeg River Railway not previously shown.

**Summary of Traffic Statistics.**—A summary of freight and passenger traffic statistics and of the ratio of operating expenses to gross earnings, continuing a series which has been compiled since 1875, will be found for recent years in Table 6. This table, however, has the defect that its figures of passengers and freight carried are not comparable throughout but have been reduced as a result of the consolidation of railways. Better tests of the real volume of passenger and freight traffic are supplied in Table 9 of this chapter under the headings "Passengers carried one mile" and "Freight carried one mile". These records, commencing in 1915, show that the maximum volume of passenger traffic was reached in the calendar year 1919 and the maximum volume of freight traffic in 1928. Both freight and passenger traffic, especially the latter, have in recent years been affected by the increase in the use of motor vehicles. This traffic decrease has been much aggravated since 1929 by the general decline in commercial activity.

The statistics of gross earnings and operating expenses illustrate the difficulties confronting our railways in recent years. Before the War it was generally held that, on account of the enormous initial investment required in roadbed and equipment, a railway's operating expenses should not exceed about two-thirds or 70 p.c. of its



gross earnings, the remainder being required to meet interest on capital invested, whether represented by stocks or bonds, as well as to provide for necessary improvements. The ratio of operating expenses to gross earnings is called the operating ratio, and in 1913 the Canadian operating ratio was 70.90 p.c. The new conditions of the war period, especially the higher cost of labour and of fuel, increased the operating ratio, in spite of advances in freight and passenger rates, until in 1920 it reached 97.18 p.c. By 1928 the operating ratio had declined to 78.53 p.c. but it rose to 89.53 in 1931 and decreased to 87.48 in 1932 and to 86.26 p.c. in 1933. Although operating revenues for 1933 were lower than in 1932 on account of the decreases in both freight and passenger traffic, the net operating revenues increased by \$423,128.

In Table 7 will be found an analysis of the distribution of the operating expenses of steam railways for the latest four years. The earnings and operating expenses per mile of line and per train-mile are analysed in Table 8.

#### 6.—Summary of Steam Railway Statistics of Freight and Passenger Traffic, and Ratio of Expenses to Earnings, years ended June 30, 1911-19, and calendar years 1919-33.

NOTE.—These statistics were published for the years 1875-1910 on p. 434 of the 1916-17 Year Book, and for 1901-25 on p. 591 of the 1926 Year Book.

| Year.               | Miles in Operation. | Total Train-Miles. | Passengers Carried. <sup>1</sup> | Freight Carried. <sup>1</sup> | Gross Earnings. | Operating Expenses. | Ratio of Expenses to Receipts. |
|---------------------|---------------------|--------------------|----------------------------------|-------------------------------|-----------------|---------------------|--------------------------------|
|                     | No.                 | No.                | No.                              | tons.                         | \$              | \$                  | p.c.                           |
| 1911 (June 30)..... | 25,400              | 89,716,533         | 37,097,718                       | 79,884,282                    | 188,733,494     | 131,034,785         | 69.43                          |
| 1912 ".....         | 26,727              | 100,930,271        | 41,124,181                       | 89,444,331                    | 219,403,753     | 150,728,540         | 68.70                          |
| 1913 ".....         | 29,304              | 113,437,208        | 46,185,968                       | 106,992,710                   | 256,702,703     | 182,011,690         | 70.90                          |
| 1914 ".....         | 30,795              | 107,895,272        | 46,702,280                       | 101,393,989                   | 243,083,539     | 178,975,259         | 73.63                          |
| 1915 ".....         | 35,582              | 93,218,479         | 46,322,035                       | 87,204,838                    | 199,843,072     | 147,731,099         | 73.92                          |
| 1916 ".....         | 37,434              | 111,075,890        | 43,503,459                       | 100,659,088                   | 261,888,654     | 180,542,259         | 68.94                          |
| 1917 ".....         | 38,604              | 115,797,100        | 48,106,530                       | 121,016,272                   | 310,771,479     | 222,890,637         | 71.72                          |
| 1918 ".....         | 38,484              | 109,857,560        | 44,948,638                       | 127,543,687                   | 330,220,150     | 273,955,436         | 82.96                          |
| 1919 ".....         | 38,501              | 103,832,835        | 43,754,194                       | 116,699,572                   | 382,976,901     | 341,866,509         | 89.27                          |
| 1919 (Dec. 31)..... | 38,663              | 107,053,735        | 47,940,456                       | 111,487,780                   | 408,598,361     | 376,789,093         | 92.26                          |
| 1920 ".....         | 38,976              | 117,384,819        | 51,318,422                       | 127,429,154                   | 492,101,104     | 478,248,154         | 97.18                          |
| 1921 ".....         | 39,363              | 104,652,167        | 46,793,251                       | 103,131,132                   | 458,008,891     | 422,581,205         | 92.25                          |
| 1922 ".....         | 39,360              | 107,625,144        | 44,383,620                       | 108,530,518                   | 440,687,128     | 393,927,406         | 89.39                          |
| 1923 ".....         | 39,656              | 113,907,613        | 44,834,337                       | 118,289,004                   | 478,338,047     | 413,862,818         | 86.52                          |
| 1924 ".....         | 40,061              | 110,032,845        | 42,921,809                       | 106,429,355                   | 445,923,877     | 328,483,908         | 85.77                          |
| 1925 ".....         | 40,352              | 109,289,865        | 41,458,084                       | 109,850,925                   | 455,297,288     | 372,149,656         | 81.70                          |
| 1926 ".....         | 40,352              | 113,538,876        | 42,686,166                       | 122,476,822                   | 493,599,754     | 389,503,452         | 78.91                          |
| 1927 ".....         | 40,572              | 116,895,751        | 41,840,550                       | 125,967,439                   | 499,064,207     | 407,646,280         | 81.68                          |
| 1928 ".....         | 41,024              | 125,034,263        | 40,592,792                       | 141,230,026                   | 563,732,260     | 442,701,270         | 78.53                          |
| 1929 ".....         | 41,382 <sup>2</sup> | 117,645,670        | 39,070,843                       | 137,855,151                   | 534,106,045     | 433,077,113         | 81.08                          |
| 1930 ".....         | 42,040 <sup>2</sup> | 107,620,076        | 34,698,767                       | 115,229,511                   | 454,231,650     | 380,723,411         | 83.86                          |
| 1931 ".....         | 42,282 <sup>2</sup> | 93,443,731         | 26,396,812                       | 85,993,206                    | 358,549,382     | 321,025,588         | 89.53                          |
| 1932 ".....         | 42,411              | 81,291,028         | 21,099,582                       | 67,722,105                    | 293,390,415     | 256,668,375         | 87.48                          |
| 1933 ".....         | 42,338              | 73,938,707         | 19,172,193                       | 63,634,893                    | 270,278,276     | 233,133,108         | 86.26                          |

<sup>1</sup>Duplications included. See also Table 9. <sup>2</sup>Revised since publication of the 1933 Year Book.

#### 7.—Distribution of Operating Expenses of Steam Railways, calendar years 1930-33

| Item of Expenditure.       | 1930.              |               | 1931.              |               | 1932.              |               | 1933.              |               |
|----------------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|
|                            | \$                 | p.c.          | \$                 | p.c.          | \$                 | p.c.          | \$                 | p.c.          |
| Way and structures.....    | 78,035,587         | 20.50         | 66,109,521         | 20.59         | 50,527,939         | 19.69         | 48,226,441         | 20.69         |
| Equipment.....             | 82,123,281         | 21.57         | 65,132,979         | 20.29         | 49,583,336         | 19.32         | 47,962,504         | 20.57         |
| Traffic expenses.....      | 18,942,728         | 4.97          | 17,559,744         | 5.47          | 13,233,968         | 5.15          | 11,814,750         | 5.07          |
| Transportation.....        | 183,813,325        | 48.28         | 156,468,783        | 48.74         | 129,148,055        | 50.32         | 112,329,273        | 48.18         |
| General and misc. expenses | 17,808,490         | 4.68          | 15,754,561         | 4.91          | 14,174,177         | 5.52          | 12,800,140         | 5.49          |
| <b>Totals.....</b>         | <b>380,723,411</b> | <b>100.00</b> | <b>321,025,588</b> | <b>100.00</b> | <b>256,668,375</b> | <b>100.00</b> | <b>233,133,108</b> | <b>100.00</b> |



8.—Earnings and Operating Expenses of Steam Railways per Mile of Line and per Train Mile, for the years ended June 30, 1915-19, and the calendar years 1919-33.

| Year.               | Per Mile of Line. |                     |               | Per Train Mile. |                     |
|---------------------|-------------------|---------------------|---------------|-----------------|---------------------|
|                     | Gross Earnings.   | Operating Expenses. | Net Earnings. | Gross Earnings. | Operating Expenses. |
|                     | \$                | \$                  | \$            | \$              | \$                  |
| 1915 (June 30)..... | 5,616             | 4,152               | 1,464         | 2.144           | 1.585               |
| 1916 ( " ).....     | 6,943             | 4,823               | 2,120         | 2.358           | 1.623               |
| 1917 ( " ).....     | 8,051             | 5,774               | 2,277         | 2.683           | 1.925               |
| 1918 ( " ).....     | 8,581             | 7,119               | 1,462         | 3.006           | 2.494               |
| 1919 ( " ).....     | 9,947             | 8,879               | 1,068         | 3.683           | 3.292               |
| 1919 (Dec.31).....  | 10,568            | 9,745               | 823           | 3.817           | 3.520               |
| 1920 ( " ).....     | 12,626            | 12,270              | 356           | 4.192           | 4.074               |
| 1921 ( " ).....     | 11,636            | 10,735              | 901           | 4.376           | 4.038               |
| 1922 ( " ).....     | 11,196            | 10,008              | 1,188         | 4.095           | 3.660               |
| 1923 ( " ).....     | 12,098            | 10,434              | 1,664         | 4.199           | 3.630               |
| 1924 ( " ).....     | 11,233            | 9,548               | 1,685         | 4.053           | 3.473               |
| 1925 ( " ).....     | 11,383            | 9,222               | 2,161         | 4.166           | 3.402               |
| 1926 ( " ).....     | 12,278            | 9,653               | 2,625         | 4.347           | 3.431               |
| 1927 ( " ).....     | 12,350            | 10,047              | 2,303         | 4.269           | 3.487               |
| 1928 ( " ).....     | 13,840            | 10,791              | 3,049         | 4.509           | 3.541               |
| 1929 ( " ).....     | 13,068            | 10,596              | 2,472         | 4.540           | 3.681               |
| 1930 ( " ).....     | 10,897            | 9,133               | 1,764         | 4.221           | 3.538               |
| 1931 ( " ).....     | 8,502             | 7,612               | 890           | 3.837           | 3.435               |
| 1932 ( " ).....     | 6,922             | 6,055               | 867           | 3.609           | 3.157               |
| 1933 ( " ).....     | 6,365             | 5,490               | 875           | 3.655           | 3.153               |

A summary analysis of passenger and freight traffic statistics for recent years is given in Table 9, showing among other things a decline in average receipts per passenger per mile from 3.04 cents in 1921 to 2.29 cents in 1933, and a decline in the average number of passengers per train from 70 in 1919 and 64 in 1920 to 39 in 1933. Similarly, freight traffic statistics show a reduction in freight receipts per ton per mile from 1.200 cents in 1921 to 0.955 cents in 1933. The average haul for freight has been revised to show the average for all railways instead of for each railway, thereby eliminating the effects of consolidations of railways and of interchanging freight between Canadian railways. The passenger traffic has shown the effects of the competition of motor vehicles, both public and private, which in 1915, numbered only 89,944, while in 1933 they numbered 1,082,957. The average revenue per passenger increased in 1918 and 1919 with increases in rates, but the increases between 1924 and 1930 have been largely due to decreases in the short haul traffic. The increases in freight train loading and train revenues have been due to the use of larger and more powerful locomotives.

**9.—Summary Analysis of Statistics of Passenger and Freight Services and Receipts, for the years ended June 30, 1915-19, and the calendar years 1919-33.**

## PASSENGERS.

| Year.               | Passengers Carried. <sup>1</sup> | Passengers Carried one Mile. | Passengers Carried one Mile per Mile of Line. | Average Receipts per Passenger Mile. |
|---------------------|----------------------------------|------------------------------|-----------------------------------------------|--------------------------------------|
|                     | No.                              | No.                          | No.                                           | cents.                               |
| 1915 (June 30)..... | 46,322,035                       | 2,433,708,745                | 69,802                                        | 2-02                                 |
| 1916 ( " ).....     | 43,503,459                       | 2,727,122,648                | 72,611                                        | 1-95                                 |
| 1917 ( " ).....     | 48,106,530                       | 3,150,127,428                | 79,829                                        | 1-95                                 |
| 1918 ( " ).....     | 44,948,638                       | 3,161,082,402                | 82,140                                        | 2-12                                 |
| 1919 ( " ).....     | 43,754,194                       | 3,074,664,369                | 79,859                                        | 2-56                                 |
| 1919 (Dec.31).....  | 47,940,456                       | 3,658,492,716                | 94,625                                        | 2-63                                 |
| 1920 ( " ).....     | 51,318,422                       | 3,522,494,856                | 90,376                                        | 2-92                                 |
| 1921 ( " ).....     | 46,793,251                       | 2,960,583,955                | 75,219                                        | 3-04                                 |
| 1922 ( " ).....     | 44,383,620                       | 2,814,113,531                | 71,497                                        | 2-82                                 |
| 1923 ( " ).....     | 44,834,337                       | 3,076,341,444                | 77,805                                        | 2-76                                 |
| 1924 ( " ).....     | 42,921,809                       | 2,872,333,579                | 72,355                                        | 2-79                                 |
| 1925 ( " ).....     | 41,458,084                       | 2,910,760,047                | 72,771                                        | 2-69                                 |
| 1926 ( " ).....     | 42,686,166                       | 2,998,952,309                | 74,595                                        | 2-71                                 |
| 1927 ( " ).....     | 41,840,550                       | 3,051,784,039                | 75,522                                        | 2-69                                 |
| 1928 ( " ).....     | 40,592,792                       | 3,140,860,693                | 77,110                                        | 2-67                                 |
| 1929 ( " ).....     | 39,070,893                       | 2,897,214,817                | 70,883                                        | 2-77                                 |
| 1930 ( " ).....     | 34,698,767                       | 2,422,874,877                | 58,123                                        | 2-76                                 |
| 1931 ( " ).....     | 26,396,812                       | 1,748,210,593                | 41,452                                        | 2-72                                 |
| 1932 ( " ).....     | 21,099,582                       | 1,435,959,501                | 33,877                                        | 2-54                                 |
| 1933 ( " ).....     | 19,172,193                       | 1,393,041,245                | 32,804                                        | 2-29                                 |

| Year.               | Average Receipts per Passenger. | Average Passenger Journey. | Average Number of Passengers per Train. | Passenger Train Revenue per Passenger Train Mile. |
|---------------------|---------------------------------|----------------------------|-----------------------------------------|---------------------------------------------------|
|                     | \$                              | miles.                     | No.                                     | \$                                                |
| 1915 (June 30)..... | 1-08                            | 54                         | 50                                      | 1-02                                              |
| 1916 ( " ).....     | 1-08                            | 55                         | 53                                      | 1-04                                              |
| 1917 ( " ).....     | 1-14                            | 59                         | 59                                      | 1-16                                              |
| 1918 ( " ).....     | 1-49                            | 70                         | 64                                      | 1-71                                              |
| 1919 ( " ).....     | 1-80                            | 70                         | 63                                      | 2-01                                              |
| 1919 (Dec.31).....  | 2-01                            | 76                         | 70                                      | 2-26                                              |
| 1920 ( " ).....     | 2-00                            | 68                         | 64                                      | 2-36                                              |
| 1921 ( " ).....     | 1-92                            | 63                         | 57                                      | 2-30                                              |
| 1922 ( " ).....     | 1-79                            | 63                         | 55                                      | 2-10                                              |
| 1923 ( " ).....     | 1-90                            | 69                         | 64                                      | 2-51                                              |
| 1924 ( " ).....     | 1-87                            | 67                         | 59                                      | 2-34                                              |
| 1925 ( " ).....     | 1-89                            | 70                         | 60                                      | 2-33                                              |
| 1926 ( " ).....     | 1-90                            | 70                         | 61                                      | 2-41                                              |
| 1927 ( " ).....     | 1-96                            | 73                         | 61                                      | 2-38                                              |
| 1928 ( " ).....     | 2-06                            | 77                         | 61                                      | 2-38                                              |
| 1929 ( " ).....     | 2-06                            | 74                         | 56                                      | 2-33                                              |
| 1930 ( " ).....     | 1-92                            | 70                         | 48                                      | 2-02                                              |
| 1931 ( " ).....     | 1-79                            | 66                         | 39                                      | 1-68                                              |
| 1932 ( " ).....     | 1-73                            | 68                         | 37                                      | 1-57                                              |
| 1933 ( " ).....     | 1-66                            | 73                         | 39                                      | 1-60                                              |

<sup>1</sup>Duplications eliminated.

**9.—Summary Analysis of Statistics of Passenger and Freight Services and Receipts, for the years ended June 30, 1915-19, and the calendar years 1919-33—concluded.**

**FREIGHT.**

| Year.               | Freight Carried. <sup>1</sup> | Freight Carried one Mile. | Freight Carried one Mile per Mile of Line. | Freight Receipts per Ton per Mile. |
|---------------------|-------------------------------|---------------------------|--------------------------------------------|------------------------------------|
|                     | tons.                         | tons.                     | tons.                                      | cents.                             |
| 1915 (June 30)..... | 71,498,170                    | 17,661,309,723            | 496,355                                    | 0-751                              |
| 1916 ( " ).....     | 89,237,156                    | 28,195,364,264            | 753,202                                    | 0-653                              |
| 1917 ( " ).....     | 98,464,694                    | 31,186,707,851            | 807,948                                    | 0-690                              |
| 1918 ( " ).....     | 102,425,410                   | 31,029,072,279            | 806,285                                    | 0-736                              |
| 1919 ( " ).....     | 95,202,121                    | 27,724,397,202            | 720,096                                    | 0-962                              |
| 1919 (Dec. 31)..... | 91,349,595                    | 26,950,598,322            | 697,064                                    | 1-003                              |
| 1920 ( " ).....     | 100,050,046                   | 31,894,411,479            | 818,309                                    | 1-071                              |
| 1921 ( " ).....     | 83,730,829                    | 26,621,630,554            | 676,311                                    | 1-200                              |
| 1922 ( " ).....     | 87,309,036                    | 30,367,885,883            | 771,542                                    | 1-039                              |
| 1923 ( " ).....     | 102,258,933                   | 34,067,658,527            | 861,622                                    | 0-987                              |
| 1924 ( " ).....     | 91,599,639                    | 30,513,819,106            | 768,649                                    | 1-019                              |
| 1925 ( " ).....     | 94,624,599                    | 31,965,204,683            | 799,150                                    | 1-012                              |
| 1926 ( " ).....     | 105,221,906                   | 34,153,466,033            | 849,525                                    | 1-043                              |
| 1927 ( " ).....     | 106,011,355                   | 34,901,652,515            | 863,710                                    | 1-029                              |
| 1928 ( " ).....     | 118,652,969                   | 41,610,660,776            | 1,021,572                                  | 0-904                              |
| 1929 ( " ).....     | 115,187,028                   | 35,025,895,433            | 856,945                                    | 1-099                              |
| 1930 ( " ).....     | 96,194,017                    | 29,604,545,125            | 710,197                                    | 1-090                              |
| 1931 ( " ).....     | 74,129,694                    | 25,707,373,092            | 609,555                                    | 1-013                              |
| 1932 ( " ).....     | 60,807,482                    | 23,136,666,295            | 545,843                                    | 0-937                              |
| 1933 ( " ).....     | 57,364,025                    | 21,092,594,200            | 496,705                                    | 0-955                              |

| Year.               | Receipts per Ton Hauled. | Average Length of Freight Haul. | Average Train Load in Net Tons. | Average Load per Loaded Car Mile. | Revenue per Freight Train Mile. |
|---------------------|--------------------------|---------------------------------|---------------------------------|-----------------------------------|---------------------------------|
|                     | \$                       | miles.                          | tons.                           | tons.                             | \$                              |
| 1915 (June 30)..... | 1-52                     | 247                             | 344                             | 18-43                             | 2-28                            |
| 1916 ( " ).....     | 1-68                     | 316                             | 411                             | 20-91                             | 2-69                            |
| 1917 ( " ).....     | 1-77                     | 317                             | 436                             | 22-24                             | 3-01                            |
| 1918 ( " ).....     | 1-79                     | 303                             | 457                             | 23-10                             | 3-36                            |
| 1919 ( " ).....     | 2-29                     | 291                             | 442                             | 23-46                             | 4-26                            |
| 1919 (Dec. 31)..... | 2-43                     | 295                             | 434                             | 22-21                             | 4-36                            |
| 1920 ( " ).....     | 2-68                     | 319                             | 457                             | 23-05                             | 4-89                            |
| 1921 ( " ).....     | 3-10                     | 318                             | 447                             | 22-12                             | 5-37                            |
| 1922 ( " ).....     | 2-91                     | 348                             | 481                             | 23-03                             | 5-00                            |
| 1923 ( " ).....     | 2-84                     | 333                             | 512                             | 26-44                             | 5-05                            |
| 1924 ( " ).....     | 2-92                     | 337                             | 494                             | 25-45                             | 5-03                            |
| 1925 ( " ).....     | 2-95                     | 338                             | 519                             | 25-11                             | 5-25                            |
| 1926 ( " ).....     | 2-91                     | 325                             | 519                             | 25-07                             | 5-41                            |
| 1927 ( " ).....     | 2-85                     | 329                             | 514                             | 25-30                             | 5-29                            |
| 1928 ( " ).....     | 2-93                     | 351                             | 557                             | 25-96                             | 5-54                            |
| 1929 ( " ).....     | 2-79                     | 304                             | 523                             | 24-52                             | 5-74                            |
| 1930 ( " ).....     | 2-80                     | 308                             | 509                             | 24-34                             | 5-55                            |
| 1931 ( " ).....     | 3-03                     | 347                             | 514                             | 24-68                             | 5-20                            |
| 1932 ( " ).....     | 3-20                     | 380                             | 517                             | 23-57                             | 4-84                            |
| 1933 ( " ).....     | 3-17                     | 368                             | 521                             | 24-92                             | 4-98                            |

<sup>1</sup>Duplications eliminated.

**Railway Wages and Salaries.**—The data in Table 10 show the number of employees and the salaries and wages, as reported by the railways, for 1912-33 inclusive and columns of adjusted data have been added. These adjusted data, as explained in footnote 2, are for comparative purposes only and were necessitated by several revisions in the method of reporting employees and wages.

The Canadian National Railways brought into their railway accounts in 1923 the express and hotel employees and, in 1928, the commercial telegraph employees. The Canadian Pacific excluded the wages chargeable to capital account and also deducted a *pro rata* number of employees prior to 1926, and in 1915 and 1916 omitted to include outside operations employees. Because these railways were not able to correct the data for the early years, the Bureau compiled these adjusted data on

a basis as nearly comparable as possible. Employees and wages for 1926 and subsequent years are on the same basis and include the total employees and salaries and wages charged to both capital accounts and operating expenses.

The number of railway employees and the amount of their remuneration are naturally affected by the volume of traffic, which tends to rise in periods of active business conditions and fall in times of depression. The volume of traffic is also very directly affected by the size of the grain crops in the West. Thus it may be observed in Table 10 that the very favourable industrial and agricultural conditions of 1928 resulted in a considerable increase in the number of employees.

The monthly average number of employees dropped from 132,678 in 1932 to 121,923 in 1933. This was the smallest staff working on Canadian railways since 1908, when the mileage was only 54 p.c. of the 1933 mileage. These are monthly averages, so that the average annual wages and time worked are not affected by seasonal lay-offs and fluctuations. Thus four men working three months would have the same effect on the average as one employee working twelve months.

**10.—Numbers of Steam Railway Employees, Totals and Averages of Salaries and Wages, and Ratios of the Latter to Gross Earnings and Operating Expenses, for years ended June 30, 1912-19, and for calendar years, 1919-33.**

| Year.              | Employees.           |                       | Salaries and Wages.      |                       | Average of Salaries and Wages. |                       | Ratio to Gross Earnings. <sup>1</sup> |                       | Ratio to Operating Expenses. <sup>1</sup> |                       |
|--------------------|----------------------|-----------------------|--------------------------|-----------------------|--------------------------------|-----------------------|---------------------------------------|-----------------------|-------------------------------------------|-----------------------|
|                    | Original.            | Adjusted <sup>2</sup> | Original.                | Adjusted <sup>2</sup> | Original.                      | Adjusted <sup>2</sup> | Original.                             | Adjusted <sup>2</sup> | Original.                                 | Adjusted <sup>2</sup> |
|                    | No.                  | No.                   | \$                       | \$                    | \$                             | \$                    | p.c.                                  | p.c.                  | p.c.                                      | p.c.                  |
| 1912 (June 30).... | 155,901              | 155,901               | 94,237,623               | 94,237,623            | 604                            | 604                   | 42.95                                 | 42.95                 | 62.52                                     | 62.52                 |
| 1913 ".....        | 178,652              | 178,652               | 115,749,825              | 115,749,825           | 648                            | 648                   | 45.09                                 | 45.09                 | 63.59                                     | 63.59                 |
| 1914 ".....        | 159,142              | 159,142               | 111,762,972              | 111,762,972           | 702                            | 702                   | 45.98                                 | 45.98                 | 62.45                                     | 62.45                 |
| 1915 ".....        | 124,142              | 138,061               | 90,215,727               | 95,323,030            | 726                            | 690                   | 45.15                                 | 47.70                 | 61.09                                     | 64.52                 |
| 1916 ".....        | 144,770              | 155,509               | 104,300,647              | 108,751,447           | 721                            | 699                   | 39.82                                 | 41.53                 | 57.95                                     | 60.24                 |
| 1917 ".....        | 146,175              | 146,175               | 129,626,187              | 129,626,187           | 887                            | 887                   | 41.71                                 | 41.71                 | 58.16                                     | 58.16                 |
| 1918 ".....        | 143,493              | 143,493               | 152,274,953              | 152,274,953           | 1,061                          | 1,061                 | 46.11                                 | 46.11                 | 55.58                                     | 55.58                 |
| 1919 ".....        | 158,777              | 158,777               | 208,939,995              | 208,939,995           | 1,316                          | 1,316                 | 54.56                                 | 54.56                 | 61.12                                     | 61.12                 |
| 1919 (Dec. 31).... | 173,728              | 173,728               | 233,323,074              | 233,323,074           | 1,343                          | 1,343                 | 57.10                                 | 57.10                 | 61.92                                     | 61.92                 |
| 1920 ".....        | 185,177              | 185,177               | 290,510,518              | 290,510,518           | 1,569                          | 1,569                 | 59.03                                 | 59.03                 | 60.74                                     | 60.74                 |
| 1921 ".....        | 167,627              | 167,627               | 247,756,138              | 247,756,138           | 1,478                          | 1,478                 | 54.09                                 | 54.09                 | 58.63                                     | 58.63                 |
| 1922 ".....        | 165,635              | 165,635               | 233,294,040              | 233,294,040           | 1,408                          | 1,408                 | 52.94                                 | 52.94                 | 59.22                                     | 59.22                 |
| 1923 ".....        | 178,052              | 174,160               | 253,320,005              | 249,049,593           | 1,423                          | 1,430                 | 52.96                                 | 52.83                 | 61.21                                     | 61.12                 |
| 1924 ".....        | 169,970              | 165,888               | 239,864,265              | 234,971,000           | 1,411                          | 1,416                 | 53.79                                 | 53.53                 | 62.71                                     | 62.47                 |
| 1925 ".....        | 166,027              | 161,953               | 237,755,752              | 232,896,435           | 1,432                          | 1,438                 | 52.22                                 | 51.95                 | 63.89                                     | 63.63                 |
| 1926 ".....        | 177,033 <sup>3</sup> | 169,095               | 256,881,407 <sup>3</sup> | 246,900,934           | 1,451                          | 1,460                 | 45.74                                 | 45.74                 | 57.97                                     | 57.97                 |
| 1927 ".....        | 179,088 <sup>3</sup> | 171,559               | 270,212,626 <sup>3</sup> | 260,001,415           | 1,509                          | 1,516                 | 48.11                                 | 48.11                 | 58.90                                     | 58.90                 |
| 1928 ".....        | 187,710              | 179,361               | 287,775,316              | 276,244,740           | 1,533                          | 1,540                 | 46.95                                 | 46.95                 | 59.79                                     | 59.79                 |
| 1929 ".....        | 187,846              | 178,568               | 290,732,500              | 277,351,400           | 1,548                          | 1,553                 | 48.85                                 | 48.85                 | 60.24                                     | 60.24                 |
| 1930 ".....        | 174,485              | 165,134               | 268,347,374              | 255,090,024           | 1,538                          | 1,545                 | 55.38                                 | 55.38                 | 66.07                                     | 66.07                 |
| 1931 ".....        | 154,569              | 146,243               | 229,499,505              | 217,889,868           | 1,485                          | 1,490                 | 58.51                                 | 58.51                 | 65.35                                     | 65.35                 |
| 1932 ".....        | 132,678              | 126,786               | 181,113,588              | 173,573,938           | 1,365                          | 1,369                 | 56.44                                 | 56.44                 | 64.52                                     | 64.52                 |
| 1933 ".....        | 121,923              | 111,789               | 158,326,445              | 145,515,296           | 1,299                          | 1,302                 | 53.86                                 | 53.86                 | 62.45                                     | 62.45                 |

<sup>1</sup> The ratio percentages are for pay roll chargeable to operating expenses only for 1926 and subsequent years.

<sup>2</sup> Data for early years could not be corrected, so the other data were adjusted to be as nearly comparable as possible, but these data should be used only for purposes of comparison. (See text above.)

<sup>3</sup> Revised to include commercial telegraph employees of Canadian National Railways.

**Rolling Stock.**—Statistics of the rolling stock of the steam railways of Canada are given for the last seven years in Table 11. The figures may be supplemented by the statement that between 1920 and 1933 the average capacity of box cars increased from 34.779 tons to 39.398 tons, of flat cars from 33.459 to 39.536 tons, and of all freight cars from 35.141 tons to 40.016 tons. The average tractive power of the locomotive in use in 1920 was 31,112 lb. and in 1933, 37,242 lb.



## 11.—Rolling Stock of Steam Railways, calendar years 1927-33.

| Rolling Stock.                   | 1927.          | 1928.              | 1929.              | 1930.              | 1931.              | 1932.              | 1933.              |
|----------------------------------|----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                  | No.            | No.                | No.                | No.                | No.                | No.                | No.                |
| <b>LOCOMOTIVES.</b>              |                |                    |                    |                    |                    |                    |                    |
| Passenger.....                   | 1,488          | 1,469              | 1,466              | 1,438              | 1,392              | 1,353              | 1,333              |
| Freight.....                     | 3,384          | 3,376              | 3,233              | 3,192              | 3,165              | 3,123              | 3,073              |
| Switching.....                   | 756            | 789                | 796                | 784                | 780                | 751                | 742                |
| Electric.....                    | 32             | 35                 | 36                 | 37                 | 40                 | 39                 | 39                 |
| <b>Totals.....</b>               | <b>5,660</b>   | <b>5,669</b>       | <b>5,531</b>       | <b>5,451</b>       | <b>5,377</b>       | <b>5,266</b>       | <b>5,187</b>       |
| <b>PASSENGER CARS.</b>           |                |                    |                    |                    |                    |                    |                    |
| First class.....                 | 1,968          | 1,978              | 1,999              | 1,980              | 1,975              | 1,933              | 1,924              |
| Second class.....                | 406            | 400                | 386                | 372                | 364                | 355                | 355                |
| Combination.....                 | 545            | 546                | 512                | 492                | 490                | 469                | 463                |
| Immigrant.....                   | 668            | 738                | 730                | 703                | 644                | 643                | 634                |
| Dining.....                      | 207            | 204                | 218                | 218                | 264                | 264                | 261                |
| Parlour.....                     | 262            | 288                | 313                | 331                | 310                | 306                | 303                |
| Sleeping.....                    | 956            | 1,111 <sup>1</sup> | 1,172 <sup>1</sup> | 1,224 <sup>1</sup> | 1,235 <sup>1</sup> | 1,198 <sup>1</sup> | 1,175 <sup>1</sup> |
| Baggage, express and postal..... | 1,687          | 1,667              | 1,653              | 1,699              | 1,695              | 1,660              | 1,635              |
| Motor cars.....                  | 65             | 69                 | 68                 | 73                 | 104                | 105                | 97                 |
| Other.....                       | 158            | 183                | 199                | 254                | 530                | 526                | 507                |
| <b>Totals.....</b>               | <b>6,922</b>   | <b>7,184</b>       | <b>7,250</b>       | <b>7,346</b>       | <b>7,611</b>       | <b>7,459</b>       | <b>7,354</b>       |
| <b>FREIGHT CARS.</b>             |                |                    |                    |                    |                    |                    |                    |
| Box.....                         | 151,232        | 148,717            | 151,565            | 151,500            | 152,841            | 150,979            | 146,207            |
| Flat.....                        | 21,018         | 20,335             | 19,601             | 17,728             | 17,266             | 16,370             | 15,837             |
| Stock.....                       | 11,656         | 11,312             | 10,408             | 9,479              | 9,281              | 9,048              | 8,522              |
| Coal.....                        | 23,551         | 23,278             | 22,676             | 22,251             | 23,091             | 22,722             | 22,472             |
| Tank.....                        | 462            | 466                | 495                | 516                | 512                | 480                | 476                |
| Refrigerator.....                | 6,802          | 6,950              | 7,579              | 8,151              | 8,464              | 8,341              | 8,160              |
| Other.....                       | 6,062          | 5,970              | 5,432              | 5,402              | 3,310              | 3,056              | 2,988              |
| <b>Totals.....</b>               | <b>220,783</b> | <b>217,028</b>     | <b>217,756</b>     | <b>215,027</b>     | <b>214,765</b>     | <b>210,996</b>     | <b>204,662</b>     |

<sup>1</sup> Includes pullman cars.

**Commodities Hauled.**—In Table 12, the duplications from two or more railways handling the same freight have been eliminated. The peak year was 1928 when agricultural products were particularly heavy. The 1933 statistics show a decrease of 3,443,457 tons, or 6 p.c. from the 1932 total and of 52 p.c. from 1928.

## 12.—Commodities Hauled as Freight on Steam Railways during the calendar years 1929-33.

**NOTE.**—In this table duplications are eliminated, i.e., the same freight handled by two or more railways is counted only once. In this respect these figures differ from those in the corresponding table in the 1926 and previous Year Books, and also from those of Table 6 in this chapter.

| Group and Product.                    | 1929.             | 1930.             | 1931.             | 1932.             | 1933.             |
|---------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                       | tons.             | tons.             | tons.             | tons.             | tons.             |
| <b>AGRICULTURAL PRODUCTS—</b>         |                   |                   |                   |                   |                   |
| Wheat.....                            | 10,816,763        | 9,889,323         | 9,523,180         | 11,203,710        | 8,900,296         |
| Corn.....                             | 846,488           | 663,070           | 437,004           | 387,813           | 456,074           |
| Oats.....                             | 1,347,478         | 993,749           | 1,165,758         | 1,032,709         | 889,008           |
| Barley.....                           | 1,048,602         | 721,897           | 613,237           | 423,384           | 385,460           |
| Rye.....                              | 288,606           | 239,879           | 148,748           | 113,607           | 75,900            |
| Flax.....                             | 77,928            | 109,444           | 71,934            | 59,348            | 42,159            |
| Other grain.....                      | 115,865           | 95,842            | 90,974            | 73,300            | 59,368            |
| Flour.....                            | 2,220,102         | 1,822,770         | 1,724,298         | 1,607,160         | 1,554,312         |
| Other milled products.....            | 2,004,804         | 1,725,598         | 1,590,965         | 1,487,706         | 1,327,833         |
| Hay and straw.....                    | 535,239           | 579,286           | 415,349           | 323,347           | 250,961           |
| Cotton.....                           | 169,831           | 133,167           | 102,568           | 92,271            | 109,925           |
| Apples (fresh).....                   | 285,088           | 349,816           | 263,644           | 268,085           | 321,001           |
| Other fruit (fresh).....              | 527,642           | 470,303           | 448,683           | 372,228           | 310,424           |
| Potatoes.....                         | 751,215           | 753,080           | 594,342           | 428,098           | 412,784           |
| Other fresh vegetables.....           | 345,656           | 323,726           | 274,190           | 247,143           | 232,277           |
| Other agricultural products.....      | 758,836           | 792,984           | 721,641           | 781,112           | 831,101           |
| <b>Totals, Agricultural Products.</b> | <b>22,140,143</b> | <b>19,663,934</b> | <b>18,186,515</b> | <b>18,901,021</b> | <b>16,158,883</b> |

# 12.—Commodities Hauled as Freight on Steam Railways during the calendar years 1929-33—concluded.

| Group and Product.                                           | 1929.<br>tons.     | 1930.<br>tons.    | 1931.<br>tons.    | 1932.<br>tons.    | 1933.<br>tons.                |
|--------------------------------------------------------------|--------------------|-------------------|-------------------|-------------------|-------------------------------|
| <b>ANIMAL PRODUCTS—</b>                                      |                    |                   |                   |                   |                               |
| Horses.....                                                  | 124,172            | 91,729            | 68,323            | 45,081            | 41,341                        |
| Cattle and calves.....                                       | 658,791            | 466,936           | 457,808           | 378,472           | 408,857                       |
| Sheep.....                                                   | 76,320             | 72,698            | 67,746            | 58,705            | 56,725                        |
| Hogs.....                                                    | 296,473            | 233,993           | 240,651           | 252,791           | 249,457                       |
| Dressed meats (fresh).....                                   | 460,807            | 499,408           | 487,295           | 424,568           | 457,986                       |
| Dressed meats (cured or salted).....                         | 267,629            | 176,205           | 131,325           | 133,863           | 167,105                       |
| Other packing-house products.....                            | 284,992            | 210,210           | 216,071           | 218,702           | 213,420                       |
| Poultry.....                                                 | 109,121            | 89,522            | 100,160           | 106,486           | 118,960                       |
| Eggs.....                                                    | 146,968            | 155,442           | 157,909           | 131,415           | 130,423                       |
| Butter and cheese.....                                       | 249,206            | 241,064           | 229,526           | 224,573           | 226,526                       |
| Wool.....                                                    | 59,094             | 52,518            | 54,396            | 37,267            | 50,086                        |
| Hides and leather.....                                       | 154,433            | 134,014           | 114,241           | 94,811            | 121,425                       |
| Other animal products.....                                   | 111,292            | 96,377            | 102,480           | 73,725            | 76,693                        |
| <b>Totals, Animal Products.....</b>                          | <b>2,998,698</b>   | <b>2,520,116</b>  | <b>2,427,931</b>  | <b>2,180,459</b>  | <b>2,319,026<sup>1</sup></b>  |
| <b>MINERAL PRODUCTS—</b>                                     |                    |                   |                   |                   |                               |
| Anthracite coal.....                                         | 5,169,348          | 4,574,824         | 3,167,754         | 2,544,545         | 2,302,021                     |
| Bituminous coal.....                                         | 14,370,779         | 12,153,738        | 9,962,001         | 8,139,583         | 7,928,628                     |
| Lignite coal.....                                            | 3,145,782          | 2,833,973         | 2,155,799         | 2,607,094         | 2,348,738                     |
| Coke.....                                                    | 1,719,081          | 1,447,005         | 1,189,739         | 1,043,237         | 1,125,900                     |
| Iron ore.....                                                | 688,384            | 421,546           | 45,228            | 8,367             | 7,668                         |
| Other ores and concentrates.....                             | 4,702,860          | 3,659,231         | 1,297,619         | 643,911           | 941,277                       |
| Base bullion and matte.....                                  | 162,781            | 189,437           | 125,674           | 346,331           | 461,950                       |
| Clay, gravel, sand, stone (crushed).....                     | 9,072,573          | 7,692,562         | 5,256,641         | 2,185,105         | 1,178,304                     |
| Slate, dimension or block stone.....                         | 401,540            | 350,159           | 261,304           | 175,951           | 79,657                        |
| Crude petroleum.....                                         | 939,509            | 878,738           | 546,267           | 373,832           | 394,021                       |
| Asphaltum.....                                               | 480,641            | 281,450           | 258,640           | 115,357           | 89,308                        |
| Salt.....                                                    | 350,544            | 264,337           | 264,372           | 259,378           | 257,413                       |
| Other mineral products.....                                  | 1,069,232          | 947,511           | 1,092,404         | 1,010,505         | 1,269,154                     |
| <b>Totals, Mineral Products.....</b>                         | <b>42,272,954</b>  | <b>35,694,511</b> | <b>25,623,443</b> | <b>19,563,194</b> | <b>18,382,039</b>             |
| <b>FOREST PRODUCTS—</b>                                      |                    |                   |                   |                   |                               |
| Logs, posts, poles, cordwood.....                            | 4,162,238          | 3,254,653         | 2,099,229         | 1,978,383         | 2,134,111                     |
| Ties.....                                                    | 199,227            | 118,326           | 85,367            | 45,353            | 32,830                        |
| Pulpwood.....                                                | 3,951,674          | 3,941,747         | 2,098,824         | 1,900,749         | 1,995,709                     |
| Lumber, timber, box shooks, heading..                        | 6,404,264          | 4,507,359         | 3,276,337         | 2,119,762         | 2,395,982                     |
| Other forest products.....                                   | 586,421            | 557,232           | 361,730           | 276,303           | 295,645                       |
| <b>Totals, Forest Products.....</b>                          | <b>15,303,824</b>  | <b>12,379,317</b> | <b>7,921,487</b>  | <b>5,720,550</b>  | <b>6,264,957<sup>2</sup></b>  |
| <b>MANUFACTURES AND MISCELLANEOUS—</b>                       |                    |                   |                   |                   |                               |
| Refined petroleum and its products....                       | 3,088,483          | 2,811,336         | 2,384,377         | 2,083,071         | 1,813,468                     |
| Sugar.....                                                   | 535,477            | 411,917           | 282,276           | 275,074           | 280,986                       |
| Iron—pig and bloom.....                                      | 492,659            | 317,734           | 203,995           | 84,127            | 96,470                        |
| Rails and fastenings.....                                    | 253,890            | 178,781           | 136,827           | 46,512            | 19,788                        |
| Bar and sheet iron—structural iron and iron pipe.....        | 2,416,028          | 1,549,071         | 1,001,321         | 482,688           | 420,167                       |
| Castings, machinery and boilers.....                         | 713,526            | 531,145           | 307,645           | 155,848           | 145,400                       |
| Cement.....                                                  | 1,711,985          | 1,350,308         | 1,197,785         | 507,006           | 350,577                       |
| Brick and artificial stone.....                              | 1,051,484          | 649,565           | 390,714           | 155,899           | 118,758                       |
| Lime and plaster.....                                        | 489,503            | 367,357           | 296,498           | 191,912           | 182,285                       |
| Sewer pipe and drain tile.....                               | 125,915            | 88,016            | 79,553            | 35,413            | 19,666                        |
| Agricultural implements and vehicles other than autos.....   | 485,721            | 318,019           | 139,658           | 57,483            | 64,071                        |
| Automobiles and auto-trucks.....                             | 2,599,309          | 1,666,866         | 1,117,514         | 774,383           | 935,248                       |
| Household goods.....                                         | 62,921             | 51,912            | 55,034            | 45,690            | 52,427                        |
| Furniture.....                                               | 128,661            | 86,904            | 64,779            | 41,742            | 42,173                        |
| Liquor and beverages.....                                    | 343,017            | 277,901           | 192,102           | 137,339           | 141,829                       |
| Fertilizers, all kinds.....                                  | 568,069            | 607,408           | 469,244           | 409,010           | 425,050                       |
| Paper, printed matter, books.....                            | 2,986,674          | 2,586,915         | 2,292,384         | 2,003,214         | 1,983,141                     |
| Wood-pulp.....                                               | 1,338,847          | 1,018,626         | 786,499           | 580,720           | 750,886                       |
| Fish (fresh, cured, etc.).....                               | 110,393            | 96,448            | 76,833            | 66,906            | 70,314                        |
| Canned meats.....                                            | 9,027              | 8,403             | 5,672             | 3                 | 3                             |
| Canned goods (all canned food products other than meat)..... | 452,118            | 383,499           | 307,976           | 341,378           | 363,606                       |
| Other manufactures and miscellaneous.....                    | 8,058,484          | 6,863,181         | 5,283,772         | 3,770,280         | 3,950,099                     |
| Merchandise.....                                             | 4,449,218          | 3,709,827         | 2,897,410         | 2,256,563         | 2,012,691                     |
| <b>Totals, Manufactures and Misc.....</b>                    | <b>32,471,409</b>  | <b>25,936,139</b> | <b>19,970,318</b> | <b>14,502,258</b> | <b>14,239,120<sup>4</sup></b> |
| <b>Grand Totals.....</b>                                     | <b>115,187,028</b> | <b>98,194,017</b> | <b>74,129,694</b> | <b>60,807,482</b> | <b>57,364,025</b>             |

<sup>1</sup> Includes 22 tons not distributed.<sup>2</sup> Includes 10,680 tons not distributed.<sup>3</sup> Included with dressed meats in 1932 and 1933.<sup>4</sup> Includes 20 tons not distributed.

**Government Aid to Private Railways.**—In order that the private railways of Canada might be constructed in advance of settlement, as colonization roads or through thinly settled districts where little traffic was available, it was necessary for Dominion, Provincial and even municipal governments to extend some form of assistance. In our earlier history, when our governments had plenty of Crown land and little cash, the subsidies granted to railways frequently took the form of land grants, which had the advantage of giving the railway a direct interest in opening up the country, though they sometimes led to the railways holding large tracts of land idle for speculative purposes when intermixed Crown lands had been homesteaded, thus retarding the settlement of agricultural land. Table 13 shows the areas of the land granted as subsidies and for right of way, station grounds and townsite purposes to steam railway companies by the Dominion and Provincial Governments, with the names of the companies in the case of the Dominion Government. The total area granted up to Dec. 31, 1933, amounted to 47,405,719.53 acres.

As the country grew wealthier, the objections to the land-grant method became more apparent, and aid was more frequently given in the form of a cash subsidy per mile of line, a loan, or a subscription to the shares of the railway. From 1851 up to Dec. 31, 1933, as shown analytically in Table 14, the total value of such aid granted to steam railways in Canada, exclusive of the capital of Government railways, amounted to \$224,320,757. Of this sum, \$177,834,528 was granted by the Dominion Government, \$33,385,615 by the Provincial Governments, and \$13,100,614 by municipalities. Table 15 records the details of the most recent type of assistance given to private railways, *viz.*, by the guaranteeing of their bonds or of the interest thereupon. These guarantees enabled the railways receiving them to borrow money at rates of interest considerably lower than would otherwise have had to be paid. The total amount outstanding on Dec. 31, 1933, was \$900,046,923.

**13.—Areas of Land Granted to Steam Railways by the Dominion and Provincial Governments up to Dec. 31, 1933.**

| Item.                 | Bonus Grants.        | Grants for Right of Way, Station Grounds and Townsite Purposes. | Total.                    |
|-----------------------|----------------------|-----------------------------------------------------------------|---------------------------|
|                       | acres.               | acres.                                                          | acres.                    |
| GRANTED BY—           |                      |                                                                 |                           |
| Dominion.....         | 31,783,654.88        | 97,987.60                                                       | 31,881,642.48             |
| Nova Scotia.....      | 160,000.00           | —                                                               | 160,000.00                |
| New Brunswick.....    | 1,788,392.00         | —                                                               | 1,788,392.00              |
| Quebec.....           | 2,085,710.00         | —                                                               | 2,085,710.00 <sup>1</sup> |
| Ontario.....          | 3,241,207.01         | —                                                               | 3,241,207.01              |
| Saskatchewan.....     | —                    | 5,829.70                                                        | 5,829.70                  |
| Alberta.....          | —                    | 480.16                                                          | 480.16                    |
| British Columbia..... | 8,233,410.00         | 9,048.18                                                        | 8,242,458.18 <sup>2</sup> |
| <b>Totals.....</b>    | <b>47,292,373.89</b> | <b>113,345.64</b>                                               | <b>47,405,719.53</b>      |

For footnotes see end of table, p. 712.

### 13.—Areas of Land Granted to Steam Railways by the Dominion and Provincial Governments up to Dec. 31, 1933—concluded.

| Item.                                                                 | Bonus Grants. <sup>1</sup> | Grants for Right of Way, Station Grounds and Townsite Purposes. <sup>4</sup> | Total.               |
|-----------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------|----------------------|
|                                                                       | acres.                     | acres.                                                                       | acres.               |
| <b>GRANTED TO—</b>                                                    |                            |                                                                              |                      |
| Canadian National Lines—                                              |                            |                                                                              |                      |
| Canadian National.....                                                | —                          | 3,502-65                                                                     | 3,502-65             |
| Canadian North Western.....                                           | —                          | 1,450-12                                                                     | 1,450-12             |
| Canadian Northern (main line and branches).....                       | 3,422,528-00               | 13,206-27                                                                    | 3,435,734-27         |
| Canadian Northern Alberta.....                                        | —                          | 1,582-14                                                                     | 1,582-14             |
| Canadian Northern Manitoba.....                                       | —                          | 73-16                                                                        | 73-16                |
| Canadian Northern Pacific.....                                        | —                          | 5,323-35                                                                     | 5,323-35             |
| Canadian Northern Saskatchewan.....                                   | —                          | 30-36                                                                        | 30-36                |
| Grand Trunk Pacific (main line).....                                  | —                          | 12,996-88                                                                    | 12,996-88            |
| Grand Trunk Pacific branches.....                                     | —                          | 1,942-57                                                                     | 1,942-57             |
| Manitoba Northern.....                                                | —                          | 2,155-89                                                                     | 2,155-89             |
| Manitoba and South Eastern.....                                       | 680,320-00                 | —                                                                            | 680,320-00           |
| National Transcontinental.....                                        | —                          | 12-12                                                                        | 12-12                |
| Qu'Appelle, Long Lake and Saskatchewan Railroad and Steamboat Co..... | 1,625,344-00               | 1,900-03                                                                     | 1,627,244-03         |
| Canadian Pacific Lines—                                               |                            |                                                                              |                      |
| Alberta Central.....                                                  | —                          | 87-10                                                                        | 87-10                |
| Alberta Railway and Irrigation Co.....                                | 1,101,712-00               | 1,997-64                                                                     | 1,103,709-64         |
| Calgary and Edmonton.....                                             | 1,820,685-08               | 2,567-97                                                                     | 1,823,253-05         |
| Canadian Pacific (main line).....                                     | 18,206,985-80              | 33,610-66                                                                    | 18,240,596-46        |
| Canadian Pacific branches.....                                        | 1,609,024-00               | 15,426-86                                                                    | 1,624,450-86         |
| Columbia and Western.....                                             | —                          | 1-60                                                                         | 1-60                 |
| Great North West Central.....                                         | 320,000-00                 | 5-80                                                                         | 320,005-80           |
| Kaslo and Slocan.....                                                 | —                          | 1-67                                                                         | 1-67                 |
| Kettle Valley.....                                                    | —                          | 2,256-26                                                                     | 2,256-26             |
| Kootenay Central.....                                                 | —                          | 286-79                                                                       | 286-79               |
| Lacombe and North Western.....                                        | —                          | 230-19                                                                       | 230-19               |
| Manitoba North Western.....                                           | 1,501,376-00               | 1,346-84                                                                     | 1,502,722-84         |
| Manitoba South Western Colonization.....                              | 1,396,800-00               | 296-56                                                                       | 1,397,096-56         |
| Nakusp and Slocan.....                                                | —                          | 18-38                                                                        | 18-38                |
| Nicola, Kamloops and Similkameen.....                                 | —                          | 202-88                                                                       | 202-88               |
| Saskatchewan and Western.....                                         | 98,880-00                  | 17-42                                                                        | 98,897-42            |
| Shuswap and Okanagan.....                                             | —                          | 241-95                                                                       | 241-95               |
| Crow's Nest Southern.....                                             | —                          | 1-55                                                                         | 1-55                 |
| Greater Winnipeg Water District.....                                  | —                          | 2,351-94                                                                     | 2,351-94             |
| Manitoba Rly. Co. (Nor. Pac. and Man. Rly.).....                      | —                          | 6-38                                                                         | 6-38                 |
| Northern Alberta Railways—                                            |                            |                                                                              |                      |
| Alberta and Great Waterways.....                                      | —                          | 2,541-99                                                                     | 2,541-99             |
| Central Canada.....                                                   | —                          | 708-27                                                                       | 708-27               |
| Edmonton, Dunvegan and British Columbia—                              |                            |                                                                              |                      |
| Main Line.....                                                        | —                          | 2,896-06                                                                     | 2,896-06             |
| Grande Prairie branches.....                                          | —                          | 327-57                                                                       | 327-57               |
| Northern Alberta.....                                                 | —                          | 278-79                                                                       | 278-79               |
| Pacific Great Eastern.....                                            | —                          | 1,324-37                                                                     | 1,324-37             |
| Vancouver Power Co.....                                               | —                          | 10-02                                                                        | 10-02                |
| Vancouver, Victoria and Eastern Railway and Navigation Co.....        | —                          | 71-90                                                                        | 71-90                |
| Winnipeg River.....                                                   | —                          | 54-69                                                                        | 54-69                |
| <b>Totals.....</b>                                                    | <b>31,783,654-88</b>       | <b>113,345-64</b>                                                            | <b>31,897,000-52</b> |

<sup>1</sup> Not including convertible land grants made by the Government of Quebec. <sup>2</sup> Includes 4,065,076 acres re-purchased from B. C. Southern, and Columbia and Western Railways. <sup>3</sup> Grants by Dominion Government only. <sup>4</sup> Made by Dominion Government and by provinces of Saskatchewan, Alberta and British Columbia.

### 14.—Analysis of the Total Financial Aid Given to Steam Railways up to Dec. 31, 1933.

| By the Dominion Government.             |                    | By Provincial Governments. |                    |
|-----------------------------------------|--------------------|----------------------------|--------------------|
|                                         | \$                 |                            | ¢                  |
| Cash subsidies.....                     | 119,741,817        | Cash subsidies.....        | 33,385,615         |
| Loans.....                              | 15,142,633         |                            |                    |
| Paid to Quebec Government.....          | 5,160,053          | By Municipalities.         |                    |
| Cost of lines handed over to C.P.R..... | 37,790,025         | Cash subsidies.....        | 13,100,614         |
| <b>Total Aid by Dominion.....</b>       | <b>177,834,528</b> | <b>Grand Total.....</b>    | <b>224,320,757</b> |



### 15.—Railway Bonds Guaranteed by Dominion and Provincial Governments, as at Dec. 31, 1933.

| Government.                                            | Outstanding<br>Dec. 31, 1933. |
|--------------------------------------------------------|-------------------------------|
| New Brunswick.....                                     | \$ 917,000                    |
| Ontario.....                                           | 7,859,998                     |
| Manitoba.....                                          | 3,000,000                     |
| Saskatchewan.....                                      | 17,904,062                    |
| Alberta.....                                           | 18,394,428                    |
| British Columbia.....                                  | 45,186,001                    |
| <b>Total Guaranteed by Provincial Governments.....</b> | <b>93,261,489</b>             |
| Dominion Government.....                               | 806,785,434 <sup>1</sup>      |
| <b>Grand Total.....</b>                                | <b>900,046,923</b>            |

<sup>1</sup> Does not include \$216,207,142 perpetual debenture stock and guaranteed stock of the Grand Trunk Railway, on which interest and dividends are guaranteed by the Dominion Government, nor Government-guaranteed bonds held by the Government itself but it does include \$60,000,000 advanced to the Canadian Pacific Railway by the banks and guaranteed by the Dominion Government. This latter sum is not included in the guarantees shown in Tables 25 and 26, Chapter XXI of this volume, nor is a further sum of \$750,000, paid off between Dec. 31, 1933 and Mar. 31, 1934.

**Railway Accidents.**—The number of passengers, employees and others killed and injured in steam railway accidents is given in summary form from 1920 to 1933 in Table 16, and in detailed analysis for 1931 to 1933 in Table 17.

During 1933, (Table 17) 8 passengers were killed in train accidents and 306 injured. Fewer passengers were killed in 1932 and 1931, but this is the smallest number injured since 1919. A new low record for the past 25 years was established in the number of employees killed in train accidents with a total of 41. In 1932, 57 were killed; in 1931, 42; in 1930, 81; and a maximum of 298 in 1913. There was an increase in employees injured from 957 in 1932 to 985; both these years, however, were well below the previous 20 years. Postal clerks, etc., trespassers and non-trespassers brought the total up to 260 persons killed and 1,851 injured in train accidents. Highway crossing accidents accounted for 78 persons killed and 247 injured. Of the fatalities, 11 were pedestrians, 61 were motorists and 6 were occupants of other vehicles. Fifteen of the total were killed at protected crossings and 63 at unprotected crossings and 46 persons were injured at protected highway crossings and 201 at unprotected crossings. Persons killed and injured in railway accidents other than train accidents numbered 20 and 3,522 respectively, the majority of the injured being trackmen and shopmen.

### 16.—Numbers of Passengers, Employees and Others Killed and Injured on Steam Railways, calendar years 1920-33.

NOTE.—For the years ended June 30, 1888 to 1919, see Canada Year Book, 1910, p. 378, and 1922-23, p. 635.

| Year.     | Passengers. |          | Employees. |          | Others. |          | Total.  |          |
|-----------|-------------|----------|------------|----------|---------|----------|---------|----------|
|           | Killed.     | Injured. | Killed.    | Injured. | Killed. | Injured. | Killed. | Injured. |
| 1920..... | 29          | 481      | 167        | 7,719    | 197     | 480      | 393     | 8,680    |
| 1921..... | 5           | 259      | 156        | 6,583    | 193     | 394      | 354     | 7,236    |
| 1922..... | 11          | 369      | 122        | 8,361    | 208     | 517      | 341     | 9,247    |
| 1923..... | 15          | 437      | 167        | 9,382    | 165     | 539      | 347     | 10,358   |
| 1924..... | 19          | 432      | 127        | 8,862    | 216     | 514      | 362     | 9,808    |
| 1925..... | 5           | 401      | 105        | 8,256    | 199     | 642      | 309     | 9,299    |
| 1926..... | 20          | 446      | 127        | 10,622   | 312     | 638      | 459     | 11,706   |
| 1927..... | 14          | 569      | 131        | 11,057   | 256     | 695      | 401     | 12,321   |
| 1928..... | 15          | 389      | 140        | 12,626   | 352     | 790      | 507     | 13,805   |
| 1929..... | 20          | 551      | 118        | 12,483   | 293     | 809      | 431     | 13,843   |
| 1930..... | 15          | 548      | 103        | 9,678    | 345     | 837      | 463     | 11,063   |
| 1931..... | 3           | 399      | 55         | 5,966    | 202     | 830      | 260     | 7,195    |
| 1932..... | 7           | 342      | 77         | 4,631    | 242     | 598      | 326     | 5,571    |
| 1933..... | 8           | 319      | 53         | 4,409    | 219     | 645      | 280     | 5,373    |

### 17.—Numbers of Persons Killed and Injured on Steam Railways in the calendar years 1931-33.

(A) IN ACCIDENTS RESULTING FROM MOVEMENT OF TRAINS, LOCOMOTIVES OR CARS.

| Item.                                                    | 1931.      |              | 1932.      |              | 1933.      |              |
|----------------------------------------------------------|------------|--------------|------------|--------------|------------|--------------|
|                                                          | Killed.    | Injured.     | Killed.    | Injured.     | Killed.    | Injured.     |
| Description of Persons—                                  |            |              |            |              |            |              |
| Passengers.....                                          | 3          | 369          | 7          | 339          | 8          | 306          |
| Employees.....                                           | 42         | 1,131        | 57         | 957          | 41         | 985          |
| Trespassers.....                                         | 113        | 483          | 170        | 288          | 147        | 278          |
| Non-trespassers.....                                     | 88         | 208          | 69         | 226          | 62         | 243          |
| Postal clerks, expressmen, etc.....                      | —          | 52           | 1          | 45           | 2          | 39           |
| <b>Totals.....</b>                                       | <b>246</b> | <b>2,243</b> | <b>304</b> | <b>1,855</b> | <b>260</b> | <b>1,851</b> |
| Description of Accident (Employees and Passengers only)— |            |              |            |              |            |              |
| Coupling and uncoupling.....                             | 2          | 78           | 1          | 38           | 1          | 37           |
| Collisions.....                                          | 3          | 45           | 12         | 37           | 6          | 22           |
| Derailements.....                                        | 1          | 130          | 6          | 26           | 5          | 55           |
| Parting of trains.....                                   | —          | 35           | —          | 1            | —          | 1            |
| Locomotives or cars breaking down.....                   | —          | 6            | —          | 2            | —          | 7            |
| Falling from trains or cars.....                         | 5          | 88           | 6          | 54           | 5          | 82           |
| Getting on or off trains.....                            | 3          | 292          | 5          | 276          | 7          | 280          |
| Struck by trains, etc.....                               | 15         | 78           | 16         | 56           | 19         | 42           |
| Overhead obstruction.....                                | 1          | 9            | —          | 3            | 1          | 2            |
| Other causes.....                                        | 15         | 739          | 18         | 803          | 5          | 763          |
| <b>Totals.....</b>                                       | <b>45</b>  | <b>1,500</b> | <b>64</b>  | <b>1,296</b> | <b>49</b>  | <b>1,291</b> |

(B) IN ACCIDENTS OTHER THAN THOSE RESULTING FROM MOVEMENT OF TRAINS, LOCOMOTIVES OR CARS.

| Description of Persons.    | 1931.     |              | 1932.     |              | 1933.     |              |
|----------------------------|-----------|--------------|-----------|--------------|-----------|--------------|
|                            | Killed.   | Injured.     | Killed.   | Injured.     | Killed.   | Injured.     |
| Stationmen.....            | 1         | 473          | 2         | 432          | 2         | 420          |
| Shopmen.....               | 1         | 1,482        | 1         | 1,258        | 2         | 1,215        |
| Trainmen and trackmen..... | 8         | 2,341        | 16        | 1,692        | 7         | 1,642        |
| Other employees.....       | 3         | 539          | 1         | 292          | 1         | 147          |
| Passengers.....            | —         | 30           | —         | 3            | —         | 13           |
| Others.....                | 1         | 87           | 2         | 39           | 8         | 85           |
| <b>Totals.....</b>         | <b>14</b> | <b>4,952</b> | <b>22</b> | <b>3,716</b> | <b>20</b> | <b>3,522</b> |

### Section 3.—Origin and Growth of Government-Owned Railways.

**Canadian Government Railways.**—The Intercolonial Railway, built as a condition of Confederation and completed in 1876, and the Prince Edward Island Railway, opened in April, 1875, have since their construction been owned and operated by the Dominion Government. In 1903 the Dominion Government undertook the construction of the National Transcontinental Railway from Moncton, N.B., to Winnipeg, to be leased to the Grand Trunk Pacific Railway Co. for a period of 50 years. However, as a result of the conditions arising from the Great War, the company was unable to take over the operation of the road when completed in 1915. The Government itself undertook its operation and was also obliged to lease the Lake Superior branch of the Grand Trunk Pacific Railway, which was isolated from the main line. A number of eastern branch lines have been acquired in recent years, including: the New Brunswick and Prince Edward Island Railway which forms the mainland connection of the Prince Edward Island car ferry, the International Railway, the Moncton and Buctouche Railway, the Salisbury and Albert Railway, the St. Martin's Railway, the Elgin and Havelock Railway, the

York and Carleton Railway, the Quebec and Saguenay Railway, the Caraquet and Gulf Shore Railway, the Lotbinière and Mégantic Railway and the Cape Breton Railway. The Saint John and Quebec, and Inverness Railways, which had been operated under lease, were purchased in 1929, together with the Kent Northern, the Atlantic, Quebec and Western, the Quebec Oriental and the Quebec, Montreal and Southern. The Hudson Bay Railway, which had 332.5 miles of steel rail at the end of 1920, was declared to be comprised in the Canadian Government Railways, and until 1926 was operated to a limited extent by the board of directors of the Canadian National Railways. In that year, as a result of the decision to complete the road, it was returned to the Department of Railways and Canals until completed. The eastern terminus was transferred from Nelson to Churchill, and the line rehabilitated and extended through to Churchill. Construction of wharves and a grain elevator was completed in time to allow two cargoes of wheat to be shipped to Europe in September, 1931. To Mar. 31, 1934, the total cost of this railway was \$32,090,577 and of terminal work at Churchill \$12,900,635, exclusive of the expenditures of \$6,240,201 on the terminal at Nelson, some of which was salvaged.\*

Table 18, from the Annual Report of the Department of Railways and Canals, shows Dominion Government investments in the Canadian Government Railways and other lines to Mar. 31, 1934.

\*These figures of total cost include deficits from operations during construction.

### 18.—Government Investments in Railways to Mar. 31, 1934.

(From the Annual Report of the Department of Railways and Canals.)

| Account.                                                 | Expenditure,<br>Fiscal Year<br>1934. | Total<br>Expenditure. |
|----------------------------------------------------------|--------------------------------------|-----------------------|
|                                                          | \$                                   | \$                    |
| <b>CANADIAN GOVERNMENT RAILWAYS—</b>                     |                                      |                       |
| <b>A. Roads entrusted to Canadian National Railways—</b> |                                      |                       |
| Intercolonial Railway System—                            |                                      |                       |
| Canada Eastern Railway.....                              | —                                    | 819,000               |
| Cape Breton Railway.....                                 | —                                    | 3,860,679             |
| Drummond County Railway.....                             | —                                    | 1,464,000             |
| Eastern Extension Railway.....                           | —                                    | 1,324,043             |
| Montreal and European Railway.....                       | —                                    | 333,943               |
| Oxford and New Glasgow Railway.....                      | —                                    | 1,949,063             |
| Intercolonial Railway.....                               | Cr. 469,384                          | 122,635,897           |
| Totals, Intercolonial Railway System.....                | Cr. 469,384                          | 132,386,625           |
| New Brunswick and Prince Edward Island Railway.....      | —                                    | 925,267               |
| Prince Edward Island Railway.....                        | Cr. 450,274                          | 16,542,210            |
| International Railway of New Brunswick.....              | —                                    | 2,963,022             |
| National Transcontinental Railway.....                   | —                                    | 169,259,000           |
| Moncton and Buctouche Railway.....                       | —                                    | 293,067               |
| Salisbury and Albert Railway.....                        | —                                    | 437,648               |
| St. Martin's Railway.....                                | —                                    | 302,046               |
| Elgin and Havelock Railway.....                          | —                                    | 135,029               |
| York and Carleton Railway.....                           | —                                    | 59,749                |
| Quebec and Saguenay Railway.....                         | —                                    | 7,772,911             |
| Caraquet and Gulf Shore Railway.....                     | —                                    | 711,767               |
| Lotbinière and Mégantic Railway.....                     | —                                    | 360,008               |
| Cape Breton Railway Extension.....                       | —                                    | 107,647               |
| Canadian Government Railways (rolling stock).....        | 18,000                               | 35,900,095            |
| Canadian Government Railways (miscellaneous).....        | —                                    | 345                   |
| Quebec Bridge.....                                       | —                                    | 21,706,664            |
| Miscellaneous suspense.....                              | —                                    | 148                   |
| Totals, Roads Entrusted to C.N.R.....                    | Cr. 901,658                          | 389,863,248           |

**18.—Government Investments in Railways to Mar. 31, 1934—concluded.**

(From the Annual Report of the Department of Railways and Canals.)

| Account.                                                                                      | Expenditure,<br>Fiscal Year<br>1934. | Total<br>Expenditure. |
|-----------------------------------------------------------------------------------------------|--------------------------------------|-----------------------|
|                                                                                               | \$                                   | \$                    |
| <b>CANADIAN GOVERNMENT RAILWAYS—concluded.</b>                                                |                                      |                       |
| <i>B. Roads not entrusted to Canadian National Railways—</i>                                  |                                      |                       |
| Hudson Bay Railway.....                                                                       | 390,387                              | 32,090,577            |
| Hudson Bay Railway—Nelson Terminal.....                                                       | —                                    | 6,240,201             |
| Hudson Bay Railway—Churchill Terminal.....                                                    | 165,018                              | 12,900,635            |
| Totals, Roads not Entrusted to C.N.R.....                                                     | 555,405                              | 51,231,413            |
| <b>Totals, Canadian Government Railways.....</b>                                              | <b>Cr. 346,253</b>                   | <b>441,094,661</b>    |
| <b>OTHER RAILWAYS AND MISCELLANEOUS—</b>                                                      |                                      |                       |
| Annapolis and Digby Railway.....                                                              | —                                    | 660,683               |
| Central Canada Railway.....                                                                   | —                                    | 175,000               |
| North Railway.....                                                                            | —                                    | 250,000               |
| Governor General's cars.....                                                                  | —                                    | 71,539                |
| Miscellaneous expenditure.....                                                                | Cr. 18,000                           | —                     |
| Yukon Works, Stikine-Teslin Railway (part of item under Schedule "H" of Public Accounts)..... | —                                    | 283,324               |
| Canadian Pacific Railway.....                                                                 | —                                    | 62,791,435            |
| Grand Trunk Railway—Debenture Account.....                                                    | —                                    | 15,142,634            |
| Grand Trunk Railway—Interest Account.....                                                     | —                                    | 10,457,458            |
| Grand Trunk Railway—Special Account.....                                                      | —                                    | 7,302                 |
| Grand Trunk Railway—Preference Stock.....                                                     | —                                    | 121,740               |
| Canadian Northern Railway—Purchase of Capital Stock.....                                      | —                                    | 10,000,000            |
| Loans to Railways—                                                                            |                                      |                       |
| Canadian Northern Railway.....                                                                | —                                    | 255,408,804           |
| Grand Trunk Railway.....                                                                      | —                                    | 118,582,182           |
| Grand Trunk Pacific Railway.....                                                              | —                                    | 116,006,599           |
| Canadian National Railways.....                                                               | 2,628,101                            | 115,909,309           |
| Loans to Railways—Purchase of equipment.....                                                  | —                                    | 56,926,000            |
| <b>Totals, Other Railways and Miscellaneous.....</b>                                          | <b>2,610,101</b>                     | <b>762,794,009</b>    |
| <b>Grand Totals, Capital Expenditure.....</b>                                                 | <b>2,263,848</b>                     | <b>1,203,888,670</b>  |

**The Consolidation and Organization of the Canadian National System.\***

—In pursuance of an Act of 1917 (7-8 Geo. V, c. 24), the Government acquired the capital stock of the Canadian Northern Railways with a mileage of 9,566.5. The insolvency of the Grand Trunk Pacific led to the appointment of the Minister of Railways as receiver on Mar. 9, 1919, and in October, 1920, the road was transferred to the Canadian National Railways. The Grand Trunk Railway was acquired under c. 13 of the Statutes of the second session of 1919, providing for arbitration of the considerations to be given to its shareholders. This arbitration finally disposed of, steps were taken to consolidate the various railways under government operation and control. In October, 1922, the Grand Trunk Board and the Canadian Northern Board gave place to a single Canadian National Board, to which the former Canadian Government Railways were turned over for management and operation. The unification of the Grand Trunk and Canadian National Railways was provided for by Order in Council of Jan. 30, 1923, which also brought into effect the Act to incorporate the Canadian National Railway Co. and respecting Canadian National Railways (c. 13, 1919). This was followed, on Feb. 5, 1923, by an Order in Council establishing the head office of the Canadian National Railways at Montreal, Que.

**Operation of the Canadian National Railways.**—The Canadian National system's steam mileage at Dec. 31, 1933, including lines in the United States but exclusive of the Northern Alberta Railways and Toronto Terminals Railway (which

\*For further details of the acquisition of the Canadian Northern, Grand Trunk Pacific and Grand Trunk Railways by the Dominion Government, see pp. 602-603 of the 1926 Year Book.



are controlled jointly by the Canadian National and the Canadian Pacific Railways), was 23,750.03. Including the Thousand Islands Railway, 4.51, and the Muskegon Railway and Navigation Co., 5.25, controlled but separately operated, the total steam mileage was 23,759.79. Including 121.11 miles of electric lines, the grand total was 23,880.90.

The Maritime Freight Rates Act (17 Geo. V, c. 44), effective July 1, 1927, ordered that the accounts of the Canadian National lines east of Lévis and Diamond Junction, Quebec, be kept separate from those of the remainder of the Canadian National system. These lines were designated the "Eastern Lines" of the Canadian National Railways. The Act ordered that specified freight rates on the Eastern Lines be reduced by 20 p.c. Other railways were allowed to make similar reductions in their freight rates in that territory and to bill on the Board of Railway Commissioners of Canada for the difference in freight receipts due to such reductions. The Government contributions to the deficits of the Eastern Lines are shown in Table 22. The differences between the reduced rates and the normal rates are treated as revenues by the Canadian National Railways and paid by the Dominion Government. The total paid to privately-owned railways under the Act was \$421,655, \$828,893, \$811,149, \$861,195, \$669,673, \$508,233 and \$611,130, respectively, for 1927-33.

For operation the Canadian National Railways system is divided into five divisions: the Atlantic division, including all lines east of Rivière du Loup and Monk, Quebec, 3,339 miles; the Central division, west from these stations to Port Arthur and Armstrong and south to Portland, Maine, 7,529 miles; the Western division, all lines west of Port Arthur and Armstrong including the line to Duluth, 11,419 miles; the Grand Trunk Western, all lines in Michigan, Indiana and Illinois, 1,008 miles; and the Central Vermont from Iberville, Quebec, to New London, Connecticut, 455 miles.

The Quebec Bridge across the St. Lawrence above Quebec city, with a main span of 1,800 ft., carrying a single track railway and accommodation for motor and pedestrian traffic, forms a connecting link in the Canadian National Railways system and is operated as a part of it.

Table 19 shows some of the more important train traffic statistics of Canadian National Railways operation for the years 1932 and 1933.

**19.—Canadian National Railways (Canadian and U.S. Lines) Train Traffic Statistics, for the calendar years 1932 and 1933.<sup>2</sup>**

| Item.                                                     | 1932. <sup>1</sup> | 1933. <sup>1</sup> |
|-----------------------------------------------------------|--------------------|--------------------|
| <b>Train Mileage—</b>                                     |                    |                    |
| Passenger trains.....                                     | 17,397,020         | 16,052,377         |
| Freight trains.....                                       | 21,357,120         | 19,094,866         |
| Mixed trains.....                                         | 3,895,143          | 4,060,829          |
| Special trains.....                                       | 15,238             | 20,796             |
| Unit cars.....                                            | 1,681,366          | 1,603,385          |
| <b>Totals, Train Miles<sup>3</sup>.....</b>               | <b>44,345,887</b>  | <b>40,832,253</b>  |
| <b>Car Mileage—</b>                                       |                    |                    |
| Passenger—                                                |                    |                    |
| Coaches, parlour, sleeping and dining cars.....           | 89,603,187         | 83,455,743         |
| Baggage, mail, express, etc.....                          | 49,408,912         | 45,732,115         |
| <b>Totals, Passenger Train Car Miles<sup>3</sup>.....</b> | <b>139,012,099</b> | <b>129,187,858</b> |
| <b>Freight—</b>                                           |                    |                    |
| Loaded freight-car miles.....                             | 558,647,346        | 525,249,472        |
| Empty freight-car miles.....                              | 296,919,208        | 268,166,292        |
| Caboose miles.....                                        | 22,915,128         | 21,068,157         |
| <b>Totals, Freight Train Car Miles<sup>3</sup>.....</b>   | <b>878,481,682</b> | <b>814,483,921</b> |

See end of table, next page, for footnotes.

**19.—Canadian National Railways (Canadian and U.S. Lines) Train Traffic Statistics, for the calendar years 1932 and 1933<sup>2</sup>—concluded.**

| Item.                                                                   | 1932. <sup>1</sup> | 1933. <sup>1</sup> |
|-------------------------------------------------------------------------|--------------------|--------------------|
| <b>Passenger Traffic—</b>                                               |                    |                    |
| Passengers carried (earning revenue).....                               | 10,364,194         | 9,434,812          |
| Passengers carried (earning revenue) one mile.....                      | 686,127,762        | 664,977,117        |
| Passenger train miles per mile of road.....                             | 803                | 744                |
| Average passenger journey—miles.....                                    | 66.20              | 70.48              |
| Average amount received per passenger.....                              | \$ 1.6653          | \$ 1.5933          |
| Average amount received per passenger mile.....                         | \$ 0.02515         | \$ 0.02261         |
| Average number of passengers per train mile.....                        | 34.50              | 35.87              |
| Average number of passengers per car mile.....                          | 8.14               | 8.42               |
| Revenue from passengers per passenger car mile.....                     | \$ 0.20475         | \$ 0.19024         |
| Total passenger train earnings per train mile.....                      | \$ 1.59            | \$ 1.50            |
| Total passenger revenue per mile of road.....                           | \$ 1,331.40        | \$ 1,174.19        |
| <b>Freight Traffic—</b>                                                 |                    |                    |
| Tons of revenue freight carried.....                                    | 34,376,605         | 31,368,058         |
| Tons of revenue freight carried one mile.....                           | 12,817,508,963     | 11,550,194,043     |
| Tons of non-revenue freight carried one mile.....                       | 1,179,198,114      | 1,283,211,921      |
| Total tons (all classes) freight carried one mile.....                  | 13,996,707,077     | 12,833,405,964     |
| Tons of revenue freight carried one mile per mile of road.....          | 537,138            | 484,397            |
| Total tons (all classes) freight carried one mile per mile of road..... | 586,742            | 538,442            |
| Average number of tons revenue freight per train mile.....              | 522.45             | 516.32             |
| Average number of tons (all classes) freight per train mile.....        | 570.70             | 573.92             |
| Average number of tons (all classes) freight per loaded car mile.....   | 24.97              | 24.34              |
| Average haul revenue freight—miles.....                                 | 372.86             | 368.22             |
| Freight revenue per loaded car mile.....                                | \$ 0.21614         | \$ 0.21388         |
| Freight revenue per train mile.....                                     | \$ 4.94            | \$ 5.04            |
| Freight revenue per mile of road.....                                   | \$ 5,077.90        | \$ 4,730.62        |
| Freight revenue per ton.....                                            | \$ 3.51155         | \$ 3.58069         |
| Freight revenue per ton mile.....                                       | \$ 0.00942         | \$ 0.00972         |

<sup>1</sup> Excludes electric lines.

<sup>2</sup> For detailed statistics of the operation and finances of the Canadian National Railways during 1933 see the annual report of the Department of Railways and Canals for the fiscal year ended Mar. 31, 1934, and Steam Railway Statistics, 1933, published by the Dominion Bureau of Statistics, also the annual report of the Canadian National Railways.

<sup>3</sup> Work service excluded.

**Operating Finances of the Canadian National Railways.**—In Table 20 "Canadian Lines" include those of the Canadian Northern system, the Grand Trunk Railway of Canada, the Grand Trunk Pacific and the Canadian Government Railways. The "United States Lines" include those lines known as the New England line, the Grand Trunk Western, the Duluth, Winnipeg and Pacific and the Central Vermont from Feb. 1, 1930. The Hudson Bay Railway was returned to the Government while under construction, and appropriations, etc., for this were not included with the 1926 and later data. The Maritime Freight Rates Act necessitated the segregation of the Eastern Lines, which were kept separate from July 1, 1927, but as a result of the "Duff Report" are again included with those of the Canadian Lines.

Gross revenues, operating expenses and net revenues shown in Table 20 include only those from steam railway and commercial telegraph operations, but the deficits are for the entire system, including the operating results of the Niagara, St. Catharines and Toronto Railway (electric) and other railways operated separately, hotels, commercial telegraphs, coastal steamships and all other outside operations.

Up to 1928 there was a marked improvement over the results of the first year after consolidation (1923), when the deficit, including profit and loss adjustments, was \$54,634,322, but the light traffic in 1932 so reduced gross revenues that, with increased interest charges, the deficit increased to \$101,335,074. It was reduced slightly in 1933 to \$97,651,957.

The figures of Table 20 are taken from the accounts of the railways as at Dec. 31, 1933. Adjustments have been made which result in minor changes in the items of interest and deficits for former years.

20.—Gross Revenues, Operating Expenses, Net Revenues, Interest on Funded Debt and Deficits of the Canadian National Railways,<sup>1</sup> calendar years 1923-33.

| Year.     | Railway Operating Revenues. <sup>2</sup> |                      |                | Railway Operating Expenses. <sup>2</sup> |                      |                | Net Operating Revenues. <sup>2</sup> |                      |               |
|-----------|------------------------------------------|----------------------|----------------|------------------------------------------|----------------------|----------------|--------------------------------------|----------------------|---------------|
|           | Canadian Lines.                          | United States Lines. | Total.         | Canadian Lines.                          | United States Lines. | Total.         | Canadian Lines.                      | United States Lines. | Total.        |
|           |                                          |                      |                |                                          |                      |                |                                      |                      |               |
| 1923..... | \$ 218,613,309                           | \$ 38,348,281        | \$ 256,961,590 | \$ 206,069,866                           | \$ 29,768,180        | \$ 235,838,046 | \$ 12,543,443                        | \$ 8,580,101         | \$ 21,123,544 |
| 1924..... | 205,232,981                              | 34,383,689           | 239,616,670    | 192,738,522                              | 28,983,527           | 221,722,049    | 12,494,459                           | 5,480,162            | 17,974,621    |
| 1925..... | 212,659,602                              | 36,752,282           | 249,411,884    | 187,956,847                              | 28,333,587           | 216,290,434    | 24,702,755                           | 8,418,695            | 33,121,450    |
| 1926..... | 230,342,249                              | 40,639,974           | 270,982,223    | 194,029,900                              | 29,331,362           | 223,361,262    | 36,312,349                           | 11,108,612           | 47,420,961    |
| 1927..... | 233,735,751                              | 41,143,367           | 274,879,118    | 202,776,373                              | 30,528,894           | 233,305,267    | 30,959,378                           | 10,614,473           | 41,573,851    |
| 1928..... | 260,418,924                              | 44,172,344           | 304,591,268    | 217,786,174                              | 31,951,522           | 249,737,696    | 42,038,750                           | 12,220,822           | 54,859,572    |
| 1929..... | 248,222,476                              | 42,274,504           | 290,496,980    | 217,223,387                              | 31,408,388           | 248,632,775    | 36,948,589                           | 10,866,116           | 41,864,705    |
| 1930..... | 213,446,581                              | 36,922,417           | 250,368,998    | 196,502,058                              | 31,785,965           | 228,288,023    | 16,944,523                           | 5,136,452            | 22,080,975    |
| 1931..... | 171,673,416                              | 28,829,716           | 200,503,132    | 171,673,133                              | 27,639,862           | 199,313,995    | 2,313                                | 1,189,854            | 1,192,167     |
| 1932..... | 139,948,317                              | 21,195,277           | 161,103,594    | 134,300,983                              | 20,907,178           | 155,208,161    | 5,647,334                            | 248,099              | 5,895,433     |
| 1933..... | 126,701,228                              | 21,818,514           | 148,519,742    | 122,572,230                              | 20,240,329           | 142,812,559    | 4,128,998                            | 1,578,185            | 5,707,183     |

| Year.     | Net Corporate Income before deducting Interest. |                               | Interest on Funded Debt. |                                     | Debit Balances to Profit and Loss Account. <sup>3</sup> |                                     | Profit and Loss Debits.             |                                     | Cumulative Deficits, including Profit and Loss Balances. <sup>2</sup> |  |
|-----------|-------------------------------------------------|-------------------------------|--------------------------|-------------------------------------|---------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-----------------------------------------------------------------------|--|
|           | On Public Debt.                                 | On Dominion Government Loans. | Total.                   | Including Government Loan Interest. | Excluding Government Loan Interest.                     | Including Government Loan Interest. | Excluding Government Loan Interest. | Including Government Loan Interest. | Excluding Government Loan Interest.                                   |  |
|           |                                                 |                               |                          |                                     |                                                         |                                     |                                     |                                     |                                                                       |  |
| 1923..... | \$ 13,501,649                                   | \$ 35,041,380                 | \$ 48,543,029            | \$ 65,199,324                       | \$ 51,697,675                                           | \$ 21,539,731                       | \$ 2,936,648                        | \$ 54,634,323                       | \$ 24,476,379                                                         |  |
| 1924..... | 14,772,328                                      | 38,361,704                    | 53,134,032               | 69,632,747                          | 54,860,419                                              | 23,589,376                          | Cr.                                 | 109,108,870                         | 47,679,883                                                            |  |
| 1925..... | 30,443,852                                      | 40,438,235                    | 70,882,087               | 71,888,617                          | 41,444,765                                              | 9,994,383                           | 206,505                             | 150,760,140                         | 57,880,771                                                            |  |
| 1926..... | 41,586,242                                      | 39,197,233                    | 80,783,475               | 71,287,687                          | 29,701,445                                              | 2,389,009                           | Cr.                                 | 173,959,581                         | 48,989,758                                                            |  |
| 1927..... | 36,325,419                                      | 40,526,097                    | 76,851,516               | 73,031,331                          | 36,705,912                                              | 4,200,678                           | 6,502,004                           | 211,486,481                         | 54,011,424                                                            |  |
| 1928..... | 44,449,780                                      | 41,810,880                    | 86,260,660               | 74,318,217                          | 29,868,437                                              | 2,638,900                           | 8,820,988                           | 244,801,309                         | 54,918,915                                                            |  |
| 1929..... | 32,095,275                                      | 45,503,980                    | 77,599,255               | 78,194,525                          | 46,099,250                                              | 13,408,705                          | 3,446,391                           | 291,411,626                         | 68,738,887                                                            |  |
| 1930..... | 15,730,227                                      | 51,316,121                    | 67,046,348               | 84,009,997                          | 68,279,770                                              | 35,585,894                          | 5,453,922                           | 365,145,518                         | 109,778,963                                                           |  |
| 1931..... | Dr. 5,282,650                                   | 55,587,145                    | 60,869,795               | 88,230,769                          | 93,513,419                                              | 60,889,795                          | 5,762,261                           | 462,420,998                         | 176,410,589                                                           |  |
| 1932..... | Dr. 4,041,640                                   | 56,965,279                    | 61,006,919               | 92,490,819                          | 96,532,459                                              | 61,006,919                          | 4,802,615                           | 565,756,072                         | 242,920,083                                                           |  |
| 1933..... | Dr. 3,552,286                                   | 56,465,427                    | 60,017,713               | 92,499,568                          | 96,051,854                                              | 60,017,713                          | 1,600,103                           | 668,408,029                         | 303,837,909                                                           |  |

<sup>1</sup> Includes Central Vermont Railway from Feb. 1, 1930.  
<sup>2</sup> Revenues and expenses 1923-27, adjusted to include commercial telegraph lines to be comparable with 1928-33. <sup>3</sup> The deficit shown is as per the accounts and includes Government interest accounting adjustments of \$12,199,307 and appropriation for insurance fund of \$9,634,306, the actual cash deficit for the period being \$282,004,297, as shown in Table 22. <sup>4</sup> Interest at 4 p.c. on \$34,927,998 G.I.P. debenture stock reduced under agreement to 2 p.c.



**The Debt and Interest Charges of the Canadian National Railways.—**

Table 21 analyses the increase in the debt and interest charges of the system, including both Canadian and United States lines. The table shows to whom the liabilities which have accumulated up to the end of 1933 and the new funds available each year are payable. To define clearly what is included under debt due to the Dominion Government in Table 21, the appropriations for the Canadian Government Railways have been separated from the loans and advances to the remainder of the system. The Canadian Government Railways include the Intercolonial, National Transcontinental, Prince Edward Island and several other smaller railways in the Eastern Provinces, together with the Quebec Bridge. The Hudson Bay Railway was included in the Canadian Government Railways until 1926, when it was transferred back to the Department of Railways and Canals for completion, and appropriations on its account were deducted. These Canadian Government Railways appropriations do not include the operating deficits of the Canadian Government Railways for 1919 and subsequent years nor the deficits of other portions of the Eastern Lines since July 1, 1927, but include investments for construction, purchase and working capital of the Canadian Government Railways. As the book value of these properties is included on the assets side of the balance sheet, the cost of these roads to the Dominion is included in the liabilities of the system as an offset. The construction or purchase of these roads was financed by the Dominion from the Consolidated Revenue Fund, and consequently no interest on such expenditures is allowed for in the railway accounts.

In a rather different class are the loans and advances made by the Government to the Canadian National Railways or constituent companies on notes, bonds and receiver certificates with accrued simple interest ranging from  $3\frac{1}{2}$  to 6 p.c. In computing the public debt of Canada the Finance Department considers these railway loans and advances as "non-active assets" similar to investments in canals, public works, etc., and as such does not subtract them from the gross debt in computing the net debt; also, no interest is charged by the Finance Department on the railway advances. The railways, however, debit their accounts with the accrued interest on these Government advances, all of which remains unpaid.

The debt due to the public includes debenture stock maturing and perpetual, and bonds and mortgages of the constituent railways, but does not include the capital stock of the Grand Trunk Railway held by the Government, nor the cost of acquiring the same. Likewise it does not include the capital stock of the Canadian Northern system. The stock of the Grand Trunk Pacific is all held by the Canadian National system and is therefore not included either.

Table 22 analyses the capital received by the Canadian National Railways. In addition to the funds available under long-term debt, as shown in Table 21, the railways have frequently had short-term loans. Table 22A shows how the capital thus made available has been expended.



21.—Long-Term Debt of Canadian National Railways (Including Appropriations for Canadian Government Railways), Showing Principal Outstanding at ends of calendar years 1923-33, and New Funds Raised, calendar years 1923-33.  
PRINCIPAL OUTSTANDING AT END OF EACH YEAR.

| Year.                       | Due to Dominion Government.                                   |                                  |                                              |               | Due to Public.                    |                        |                          | Grand Total.                |
|-----------------------------|---------------------------------------------------------------|----------------------------------|----------------------------------------------|---------------|-----------------------------------|------------------------|--------------------------|-----------------------------|
|                             | Appropriations for Canadian Government Railways. <sup>2</sup> | Loans and Advances. <sup>2</sup> | Unpaid Accrued Interest on Government Loans. | Total.        | Guaranteed by—                    |                        | Total.                   |                             |
|                             |                                                               |                                  |                                              |               | Dominion Government. <sup>3</sup> | Provincial Government. |                          |                             |
| At acquisition <sup>6</sup> | 404,272,030 <sup>4</sup>                                      | 115,607,457                      | 6,947,168                                    | 526,826,655   | 331,309,904                       | 93,423,985             | 809,932,039              | 1,336,758,694               |
| 1922                        | 442,062,571                                                   | 506,945,969                      | 69,328,803                                   | 1,018,337,343 | 447,872,904                       | 93,574,380             | 804,503,144              | 1,822,840,488               |
| 1923                        | 447,043,526                                                   | 567,870,480                      | 98,669,270                                   | 1,114,183,276 | 470,372,904                       | 93,574,380             | 823,099,056              | 1,937,282,332               |
| 1924                        | 451,712,485                                                   | 560,397,958 <sup>5</sup>         | 130,157,992                                  | 1,142,268,435 | 558,872,904                       | 93,574,380             | 913,329,083              | 2,056,181,518               |
| 1925                        | 453,935,303                                                   | 572,685,535                      | 161,861,503                                  | 1,186,482,341 | 581,372,904                       | 93,574,380             | 925,480,244 <sup>7</sup> | 2,119,811,644               |
| 1926                        | 437,412,033                                                   | 594,300,367                      | 193,951,356                                  | 1,225,663,756 | 570,829,904                       | 93,574,380             | 925,032,977 <sup>7</sup> | 2,151,144,000               |
| 1927                        | 436,416,387                                                   | 595,538,369                      | 228,142,000                                  | 1,258,096,742 | 570,872,891                       | 93,574,380             | 925,032,977 <sup>7</sup> | 2,150,470,570               |
| 1928                        | 417,150,953                                                   | 614,012,221                      | 258,024,308                                  | 1,290,216,482 | 687,181,330                       | 93,574,380             | 977,889,093              | 2,268,106,515               |
| 1929                        | 417,150,953                                                   | 614,012,221                      | 258,024,308                                  | 1,290,216,482 | 687,181,330                       | 93,574,380             | 977,889,093              | 2,268,106,515               |
| 1930                        | 403,433,631                                                   | 604,406,239                      | 200,085,439                                  | 1,308,684,062 | 801,048,434                       | 91,926,527             | 1,122,589,493            | 2,434,241,555               |
| 1931                        | 405,209,240                                                   | 604,406,239                      | 322,153,992                                  | 1,330,005,076 | 854,431,995                       | 72,184,468             | 1,108,565,863            | 2,498,571,339               |
| 1932                        | 403,707,073                                                   | 604,406,239                      | 354,173,113                                  | 1,363,788,592 | 970,502,289                       | 72,184,468             | 1,276,457,207            | 2,604,246,799               |
| 1933                        | 403,707,073                                                   | 604,406,239                      | 388,930,381                                  | 1,480,823,661 | 965,831,382                       | 72,184,468             | 1,264,517,167            | 2,754,340,828               |
| 1933.                       | 404,376,682                                                   | 601,852,895 <sup>10</sup>        | 424,338,109                                  | 1,490,549,686 | 962,992,576                       | 72,184,468             | 1,255,302,155            | 2,745,851,841 <sup>11</sup> |

| NEW FUNDS MADE AVAILABLE DURING YEAR. |                                                               |                                  |                                              |             |                                   |                        |               |                |  |
|---------------------------------------|---------------------------------------------------------------|----------------------------------|----------------------------------------------|-------------|-----------------------------------|------------------------|---------------|----------------|--|
| Year.                                 | Appropriations for Canadian Government Railways. <sup>2</sup> | Loans and Advances. <sup>2</sup> | Unpaid Accrued Interest on Government Loans. | Total.      | Guaranteed by—                    |                        | Total.        | Grand Total.   |  |
|                                       |                                                               |                                  |                                              |             | Dominion Government. <sup>3</sup> | Provincial Government. |               |                |  |
| 1923.                                 | 1,573,970                                                     | 60,924,511                       | 13                                           | 62,498,481  | 22,500,000                        | —                      | 18,595,912    | 81,094,393     |  |
| 1924                                  | 452,176                                                       | 7,472,525 <sup>6</sup>           | 13                                           | 7,020,346   | 88,500,000                        | —                      | 2,314,027     | 89,793,681     |  |
| 1925                                  | 55,545                                                        | 12,287,577                       | 13                                           | 12,202,032  | 22,500,000                        | —                      | 5,083,780     | 29,618,252     |  |
| 1926                                  | 63,718                                                        | 21,614,832                       | 13                                           | 21,622,059  | 1,500,013                         | —                      | 6,349,046     | 15,773,001     |  |
| 1927                                  | 7,227                                                         | 1,237,982                        | 13                                           | 1,301,700   | 77,308,439                        | —                      | 21,406,946    | 57,203,192     |  |
| 1928                                  | 165,243                                                       | 19,373,872                       | 13                                           | 19,539,115  | 23,819,325                        | —                      | 27,312,029    | 16,046,411     |  |
| 1929                                  | 113,000                                                       | 13,466,139 <sup>9</sup>          | 13                                           | 13,553,139  | 126,047,779                       | Cr. 1,647,853          | 3,492,704     | 131,317,321    |  |
| 1930                                  | 1,674,204                                                     | 2,960,157                        | 13                                           | 4,634,361   | 47,383,561                        | Cr. 1,647,853          | 144,670,460   | 50,840,731     |  |
| 1931                                  | 1,765,305                                                     | 91,316,968                       | 13                                           | 1,765,305   | 116,130,294                       | Cr. 19,742,039         | 46,006,370    | 109,656,649    |  |
| 1932                                  | 39,166                                                        | 91,316,968                       | 13                                           | 91,277,802  | 4,770,907                         | —                      | 17,937,762    | 79,337,632     |  |
| 1933.                                 | 5,690,132 <sup>12</sup>                                       | 154,886,926                      | 13                                           | 33,890,312  | Cr. 2,838,806                     | —                      | Cr. 9,215,012 | Cr. 43,105,324 |  |
| Net Increases.                        |                                                               |                                  |                                              | 160,577,058 | 515,119,672                       | Cr. 21,389,802         | 450,799,011   | 611,376,069    |  |

## NEW FUNDS MADE AVAILABLE DURING YEAR.

|                  |                         |                             |    |                |               |     |            |               |                |
|------------------|-------------------------|-----------------------------|----|----------------|---------------|-----|------------|---------------|----------------|
| 1923             | 1,573,970               | 60,924,511                  | 13 | 62,498,481     | 22,500,000    | Cr. | 3,904,088  | 18,585,912    | 81,094,393     |
| 1924             | 452,176                 | 7,472,522 <sup>6</sup>      | 13 | 7,020,346      | 88,500,000    | Cr. | 2,314,027  | 90,814,027    | 83,793,681     |
| 1925             | 85,545                  | 12,287,577                  | 13 | 12,202,032     | 22,500,000    | Cr. | 5,083,780  | 17,416,220    | 29,618,252     |
| 1926             | 19,622,059              | 21,614,892                  | 13 | 21,622,059     | Cr. 1,500,013 | Cr. | 4,349,046  | 55,901,493    | 15,773,001     |
| 1927             | 63,718                  | 1,237,982                   | 13 | 1,301,700      | 77,308,439    | Cr. | 21,406,946 | 55,901,493    | 57,203,192     |
| 1928             | 165,243                 | 19,373,872                  | 13 | 19,539,115     | 23,819,325    | Cr. | 27,312,029 | 3,492,704     | 16,046,411     |
| 1929             | 113,000                 | Cr. 13,466,139 <sup>8</sup> | 13 | 13,353,139     | 126,047,779   | Cr. | 20,270,534 | 144,670,460   | 131,317,321    |
| 1930             | 1,674,204               | 2,960,157                   | 13 | 4,634,361      | 47,383,561    | Cr. | 18,364,848 | 46,006,370    | 50,640,731     |
| 1931             | 1,765,305               | 91,316,968                  | 13 | 1,765,305      | 116,130,294   | Cr. | 8,238,950  | 107,891,344   | 109,656,649    |
| 1932             | 39,166                  | Cr. 33,890,312              | 13 | 91,277,802     | 4,739,907     | Cr. | 7,209,133  | Cr. 9,215,012 | 79,337,762     |
| 1933             | —                       | 154,886,926                 | 13 | Cr. 33,890,312 | 2,838,806     | Cr. | 6,376,208  | Cr. 9,215,012 | Cr. 43,105,324 |
| Net Increases... | 5,690,132 <sup>12</sup> | 154,886,926                 | 13 | 160,577,058    | 515,119,672   | Cr. | 42,930,769 | 450,799,011   | 611,376,089    |

<sup>1</sup>See Table 22 for short-term loans. <sup>2</sup>Deficits of Eastern Lines from Jan. 1, 1927, and deficits of remainder of system from Jan. 1, 1932, are paid by the Dominion Government and are not included herein. (See Table 22.) <sup>3</sup>Includes \$216,207,142 perpetual debentures stock guaranteed as to interest only, formerly Grand Trunk guaranteed bonds. <sup>4</sup>Including Hudson Bay Railway \$14,531,706. <sup>5</sup>Amounts outstanding as at dates constituent lines were taken over by Canadian National, viz.: Canadian Northern, Sept. 30, 1917; Grand Trunk Pacific, Mar. 9, 1919; Grand Trunk, May 21, 1920; Canadian Government, Mar. 31, 1919 (actual date of transfer Nov. 20, 1918). <sup>6</sup>Repayment of temporary loan of \$14,259,436. <sup>7</sup>Central Government Railway bonds of \$9,902,866 were included in annual report but excluded here. <sup>8</sup>Includes Government loans prior to July 1, 1927, to lines other than Hudson Bay Railway, now comprising the Eastern Lines—capital \$2,565,605; deficit \$8,835,176; total \$11,400,781—on which no interest has been accrued since July 1, 1927. <sup>9</sup>Temporary loan of \$4,884,639 repaid and temporary loan of \$8,561,500 for redemption of Central Vermont Railway bonds repaid and included in guaranteed bond issue of \$50,000,000, June 15, 1930. <sup>10</sup>\$42,118,413 advanced in 1932 to meet 1932 cash deficit of \$53,422,662 deducted in 1933. <sup>11</sup>Does not include \$40,189,127 cash deficits of Eastern Lines for 1927-33, \$105,886,481 cash deficits of Canadian National Railways 1922-33, a total of \$145,875,608. <sup>12</sup>The appropriations for Canadian Government Railways include a credit of \$43,374,021 for properties transferred to other Government Departments, etc., not representing new funds available. <sup>13</sup>Hudson Bay Railway, 1926, \$15,245,889—Halifax Harbour Commission, 1928, \$12,900,806—Saint John Harbour Commission, 1928, \$645,183—1921-22 deficits, credited in 1930, \$12,409,126—Quebec Bridge adjustment, \$933,564, and other adjustments, \$300,538. <sup>14</sup>Unpaid accrued interest on Government loans does not represent new funds available.

## 22.—Capital Received by Canadian National Railways, calendar years 1923-33.

| Year.                   | Long-Term Debt.            |                             |                       | Short-Term Loans. | Dominion Government Contributions for Cash Deficits. |                         | Increase or Decrease in Working Capital and other Balance Sheet Accounts. | Funded Debt Discount Amortized through Income Account. <sup>5</sup> | Total.      |
|-------------------------|----------------------------|-----------------------------|-----------------------|-------------------|------------------------------------------------------|-------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|-------------|
|                         | Net Increase in Par Value. | Issue Expense and Discount. | Net Capital Received. |                   | Eastern Lines.                                       | Canadian National.      |                                                                           |                                                                     |             |
| Cash on Hand an. 1, 192 | \$                         | \$                          | \$                    | \$                | \$                                                   | \$                      | \$                                                                        | \$                                                                  | \$          |
| 1923.                   | 81,094,393                 | 484,944                     | 80,809,449            | 10,008,500        | -                                                    | -                       | Dr. 157,390                                                               | 132,487                                                             | 20,790,857  |
| 1924.                   | 83,793,681                 | 3,372,802                   | 80,420,885            | Dr. 10,000,000    | -                                                    | -                       | Dr. 6,643,571                                                             | 352,182                                                             | 90,593,046  |
| 1925.                   | 29,618,252                 | 856,847                     | 28,761,405            | -                 | -                                                    | -                       | 7,127,782                                                                 | 631,227                                                             | 64,129,490  |
| 1926.                   | 15,773,001                 | -                           | 15,773,001            | Dr. 6,600         | -                                                    | -                       | 3,931,750                                                                 | 574,099                                                             | 36,520,414  |
| 1927.                   | 57,203,192                 | 2,613,502                   | 54,589,690            | Dr. 1,400         | 2,211,139                                            | -                       | Dr. 3,217,242                                                             | 553,183                                                             | 20,272,250  |
| 1928.                   | 16,046,411                 | 1,561,043                   | 13,971,660            | 43,507,250        | 4,358,314                                            | -                       | Dr. 8,609,371                                                             | 566,639                                                             | 54,135,370  |
| 1929.                   | 131,317,321                | 4,175,147                   | 127,644,282           | 1,321,850         | 4,933,654                                            | -                       | Dr. 28,584,582 <sup>3</sup>                                               | 1,087,079                                                           | 54,308,200  |
| 1930.                   | 50,640,731                 | 2,515,269                   | 48,237,246            | 10,823,942        | 6,645,644                                            | -                       | 47,501,070 <sup>4</sup>                                                   | 658,695                                                             | 105,900,375 |
| 1931.                   | 109,656,649                | 4,260,205                   | 105,396,354           | Dr. 20,645,291    | 8,712,762                                            | -                       | 5,504,689                                                                 | 894,482                                                             | 113,764,813 |
| 1932.                   | 79,337,762                 | -                           | 79,337,762            | Dr. 35,008,251    | 6,835,945                                            | -                       | 12,675,949                                                                | 913,404                                                             | 99,862,996  |
| 1933.                   | Dr. 43,105,324             | -                           | Dr. 43,105,324        | -                 | 8,007,792 <sup>2</sup>                               | 93,394,560 <sup>2</sup> | 4,142,284                                                                 | 914,811                                                             | 64,554,709  |
| Totals.                 | 611,376,060 <sup>1</sup>   | 19,839,849                  | 591,536,220           | -                 | 39,505,350                                           | 93,394,560 <sup>2</sup> | 33,671,363                                                                | 7,278,288                                                           | 61,354,123  |
|                         |                            |                             |                       |                   |                                                      |                         |                                                                           |                                                                     | 786,176,643 |

<sup>1</sup>Interest on Government loans not included.<sup>2</sup>Includes 1932 deficits paid in 1933 but not the following portions of 1933 deficits paid in 1934: Eastern Lines, \$683,777; Canadian National, \$12,291,921; total, \$12,975,698.<sup>3</sup>Increase in special deposits \$25,415,179.<sup>4</sup>Decrease in special deposits \$41,175,428.<sup>5</sup>Non-cash items, included in "Cash Deficits", charged each year during the life of each issue to income account by the railway but not paid by the Dominion Government until issues mature.

## 22A.—Capital Expended by Canadian National Railways, calendar years 1923-33.

| Year.                      | Cash<br>Deficits.              | Investments.                                                                                        |                               |                                    | Total<br>Expenditures. |
|----------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------|------------------------|
|                            |                                | Railway<br>Fixed<br>Property,<br>Equipment,<br>Hotels, and<br>Separately<br>Operated<br>Properties. | Affiliated<br>Companies.      | Sinking and<br>Insurance<br>Funds. |                        |
|                            | \$                             | \$                                                                                                  | \$                            | \$                                 | \$                     |
| 1923.....                  | 22,844,217                     | 54,964,673                                                                                          | 4,144,599                     | 8,639,557                          | 90,593,046             |
| 1924.....                  | 21,395,656                     | 41,814,467                                                                                          | 2,473,155                     | Cr. 1,553,788                      | 64,129,490             |
| 1925.....                  | 8,813,830                      | 18,949,525                                                                                          | 6,271,577                     | 2,485,483                          | 36,520,415             |
| 1926.....                  | Cr. 10,710,443                 | 24,462,538                                                                                          | 1,658,228                     | 4,861,926                          | 20,272,249             |
| 1927.....                  | 5,869,218                      | 46,096,935                                                                                          | 1,827,421                     | 341,796                            | 54,135,370             |
| 1928.....                  | Cr. 7,275,990                  | 44,034,154                                                                                          | 13,026,572                    | 4,523,464                          | 54,308,200             |
| 1929.....                  | 21,974,110                     | 88,499,908                                                                                          | Cr. 6,162,879                 | 1,589,236                          | 105,900,375            |
| 1930.....                  | 32,962,841                     | 66,560,354                                                                                          | 12,066,022                    | 2,165,596                          | 113,754,813            |
| 1931.....                  | 63,088,100                     | 34,287,067                                                                                          | 1,371,140                     | 1,116,689                          | 99,862,996             |
| 1932.....                  | 62,364,176                     | 799,158                                                                                             | 950,736                       | 440,639                            | 64,554,709             |
| 1933.....                  | 60,678,582 <sup>1</sup>        | 952,996                                                                                             | 2,833,998                     | 2,080,046                          | 66,545,622             |
| <b>Totals.....</b>         | <b>282,004,297<sup>2</sup></b> | <b>421,421,775<sup>3</sup></b>                                                                      | <b>40,460,569<sup>4</sup></b> | <b>26,690,644</b>                  | <b>770,577,285</b>     |
| Cash on Hand Dec. 31, 1933 |                                |                                                                                                     |                               |                                    | 15,599,358             |
|                            |                                |                                                                                                     |                               |                                    | 786,176,643            |

<sup>1</sup>Includes 1932 deficits paid in 1933 but not the following portions of 1933 deficits paid in 1934: Eastern Lines \$688,777; Canadian National \$12,291,921; total \$12,975,698. <sup>2</sup>Excludes accounting adjustments and appropriations for insurance fund—(see note 3, Table 20). <sup>3</sup>Excludes transfer of \$31,583,630 investment in Central Vermont Lines transferred from "Investments in Affiliated Companies" to "Investment in Road and Equipment" in 1930 accounts, also transfer of \$30,571,817 for Canadian Government Railways property transferred per note 12 of Table 21, \$17,827,041 for retirement of abandoned lines, principally duplicate lines of Grand Trunk Pacific and Canadian Northern, west of Edmonton, held in suspense until 1930, \$3,021,486 for Toronto Suburban Railway for which a receiver was appointed in 1931, and other miscellaneous additions and deductions. <sup>4</sup>See note 6 for transfer to "Investment in Road and Equipment".

The figures given in Tables 22 and 22A differ from the figures given in the annual reports of the railways by reason of certain accounting adjustments (not representing new funds or expenditures) entered into the accounts during the period but excluded therefrom. It should be noted, therefore, that the total cash deficit of \$282,004,297 for the period 1923-33 does not include \$12,199,307 of accounting adjustments and \$9,634,306 appropriated for investment in the Insurance Fund. If these items are included, the total deficit for the eleven-year period is \$303,837,909 as shown in Table 20.

Table 23 has been compiled to reconcile the investments in and loans to the Canadian National Railways (including Canadian Government Railways) as shown in the Public Accounts for the fiscal year ended Mar. 31, 1934, with the debt to the Dominion Government shown in the railway's balance sheet, Dec. 31, 1933. The last section of the table shows the adjustments to the statement in Public Accounts which make up the difference.

Table 24 shows the assets of the Canadian National Railways at Dec. 31, 1922, and at Dec. 31, 1933, with the increase or decrease for the eleven-year period.

**23.—Adjustments Accounting for Difference in Railway Obligations as shown by Public Accounts, Mar. 31, 1934, and by Canadian National Railways Balance Sheet, Dec. 31, 1933.**

FROM PUBLIC ACCOUNTS, MAR. 31, 1934.

|                                              |                     |
|----------------------------------------------|---------------------|
| <i>Canadian Government Railways—</i>         |                     |
| Schedule "E"—Miscellaneous Current Accounts— |                     |
| Canadian Government Railways.....            | \$ 15,748,921.60    |
| Schedule "G"—Public Works (Railways)—        |                     |
| Canadian Government Railways.....            | 389,863,247.66      |
| Total, Canadian Government Railways.....     | \$ 405,612,169.26   |
| <i>Canadian National Railways—</i>           |                     |
| Schedule "L"—Railway Accounts—               |                     |
| Loans non-active.....                        | \$ 655,527,455.83   |
| Less: Canadian Northern stock purchased..... | 10,000,000.00       |
|                                              | 645,527,455.83      |
| Schedule "E"—Temporary Loans.....            | 17,305,439.43       |
| Total, Canadian National Railways.....       | \$ 662,832,895.26   |
| Total, per Public Accounts.....              | \$ 1,068,445,064.52 |

FROM CANADIAN NATIONAL RAILWAYS BALANCE SHEET, DEC. 31, 1933.

|                                                             |                          |
|-------------------------------------------------------------|--------------------------|
| <i>Dominion of Canada Account—</i>                          |                          |
| a. Canadian Government Railways appropriations account..... | \$ 404,378,682.25        |
| b. Loans from Dominion.....                                 | 661,832,895.26           |
| c. Interest on loans accrued but unpaid.....                | 424,338,109.08           |
| Total, per Canadian National Railways Balance Sheet.....    | \$ 1,490,549,686.59      |
| <b>Difference.....</b>                                      | <b>\$ 422,104,622.07</b> |

ADJUSTMENTS ACCOUNTING FOR DIFFERENCE.

|                                                                             |                          |
|-----------------------------------------------------------------------------|--------------------------|
| <i>Canadian Government Railways—</i>                                        |                          |
| Current differences which will adjust automatically.....                    | \$ 60.00                 |
| <i>Canadian National Railways—</i>                                          |                          |
| Miscellaneous investment and working capital amounts written off.....       | Cr. 573,177.05           |
| Expenditures out of cash loans for Hudson Bay Railway capital.....          | Cr. 457,526.76           |
| Expenditures out of cash loans for Hudson Bay Railway deficits.....         | Cr. 202,843.20           |
| Loans during January-March, 1934 on 1934 account.....                       | Cr. 1,000,000.00         |
| Unpaid interest accrued on loans not set up in Public Accounts.....         | 424,338,109.08           |
| <b>Total, Adjustments to Public Accounts Accounting for Difference.....</b> | <b>\$ 422,104,622.07</b> |

**24.—Assets of the Canadian National Railways System, Dec. 31, 1922 and 1933.**

| Account.                                         | Dec. 31, 1922. | Dec. 31, 1933. | Increase (+)<br>or<br>Decrease (—). |
|--------------------------------------------------|----------------|----------------|-------------------------------------|
|                                                  | \$             | \$             | \$                                  |
| <b>INVESTMENTS—</b>                              |                |                |                                     |
| Investment in road and equipment.....            | 1,765,323,644  | 2,134,556,443  | + 369,232,799 <sup>1</sup>          |
| Improvements on leased railway property.....     | 1,492,123      | 3,684,472      | + 2,192,349                         |
| Sinking funds.....                               | 4,629,855      | 21,686,193     | + 17,056,338                        |
| Deposits in lieu of mortgaged property sold..... | 6,171,808      | 5,014,082      | — 1,157,726                         |
| Miscellaneous physical property.....             | 34,767,914     | 60,831,402     | + 26,063,488                        |
| Investments in affiliated companies.....         | 24,253,323     | 31,879,426     | + 7,626,103                         |
| Other investments.....                           | 5,789,464      | 2,705,562      | — 3,083,902                         |
| Totals, Investments.....                         | 1,842,428,131  | 2,260,357,580  | + 417,929,449                       |

<sup>1</sup> See footnote 12 to Table 21.



**24.—Assets of the Canadian National Railways System, Dec. 31, 1922 and 1933**  
—concluded.

| Account.                                                      | Dec. 31, 1922.       | Dec. 31, 1933.       | Increase (+)<br>or<br>Decrease (—). |
|---------------------------------------------------------------|----------------------|----------------------|-------------------------------------|
|                                                               | \$                   | \$                   | \$                                  |
| <b>CURRENT ASSETS—</b>                                        |                      |                      |                                     |
| Cash.....                                                     | 14,651,422           | 9,120,265            | — 5,531,157                         |
| Special deposits.....                                         | 6,139,435            | 6,479,093            | + 339,658                           |
| Loans and bills receivable.....                               | 11,600               | 210,000              | + 198,400                           |
| Traffic and car service balances receivable.....              | 2,528,622            | 889,676              | — 1,638,946                         |
| Net balances receivable from agents and conductors.....       | 5,386,673            | 3,254,760            | — 2,131,913                         |
| Miscellaneous accounts receivable.....                        | 16,857,420           | 4,724,760            | — 12,132,660                        |
| Dominion Government—Balance due on deficit contributions..... | —                    | 13,257,698           | + 13,257,698                        |
| Materials and supplies.....                                   | 41,408,999           | 28,542,598           | — 12,866,401                        |
| Interest and dividends receivable.....                        | 377,003              | 582,456              | + 205,453                           |
| Rents receivable.....                                         | 112,269              | 55,085               | — 57,183                            |
| Other current assets.....                                     | 106,775              | 514,223              | + 407,448                           |
| <b>Totals, Current Assets.....</b>                            | <b>87,580,218</b>    | <b>67,630,615</b>    | <b>— 19,949,603</b>                 |
| <b>DEFERRED ASSETS—</b>                                       |                      |                      |                                     |
| Working fund advances.....                                    | 166,847              | 220,481              | + 53,634                            |
| Insurance and other funds.....                                | 352,488              | 11,671,430           | + 11,318,942                        |
| Other deferred assets.....                                    | 11,805,962           | 7,322,577            | — 4,483,385                         |
| <b>Totals, Deferred Assets.....</b>                           | <b>12,325,297</b>    | <b>19,214,488</b>    | <b>+ 6,889,191</b>                  |
| <b>UNADJUSTED DEBITS—</b>                                     |                      |                      |                                     |
| Rents and insurance premiums paid in advance.....             | 322,059              | 220,454              | — 101,605                           |
| Discount on capital stock.....                                | 634,960              | 189,620              | — 445,340                           |
| Discount on funded debt.....                                  | 1,919,635            | 14,481,197           | + 12,561,562                        |
| Other unadjusted debits.....                                  | 12,820,903           | 3,918,918            | — 8,901,985                         |
| <b>Totals, Unadjusted Debits.....</b>                         | <b>15,697,557</b>    | <b>18,810,189</b>    | <b>+ 3,112,632</b>                  |
| <b>Grand Totals.....</b>                                      | <b>1,958,031,203</b> | <b>2,366,012,872</b> | <b>+ 407,981,669</b>                |

### PART III.—ELECTRIC RAILWAYS.\*

The cheap and reasonably rapid conveyance of human beings is a necessity of modern urban life. One important means by which this necessity is supplied throughout Canada is the electric street railway, generally operated by the hydro-electric energy which is so important a feature of Canadian economic life.

**Historical.**—Replacing the horse-car systems, used in Montreal and Toronto as early as 1861, electric street railways were first seen in operation in Canada in 1885, when a successful experimental railway was constructed and operated at the Toronto Exhibition grounds. Before many years their safety and convenience resulted in the discarding of the older system. An electric system 7 miles in length was opened at St. Catharines in 1887, using the double overhead trolley. The second electric railway in Canada commenced operations in Vancouver, in June, 1890. This was followed by the completion of the Ottawa Electric Railway in 1891, and the electrification of the Montreal and Toronto systems in 1892. The

\* Revised and checked by G. S. Wrong, B.Sc., Chief of the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics. This Branch publishes an annual report on Electric Railways in Canada.

street railways of other eastern cities were generally electrified during the 1890's, while in the newer western cities electricity was used from the commencement. In the cities of Eastern Canada, electric street railways are generally operated by private companies under city franchises, while in a considerable number of cities in Ontario and the West the street railways are owned and operated by the municipalities, a fact indicated in Table 28. In 1921, on the expiry of the 30-year franchise of the Toronto Street Railway Co., the railway in this second largest city of Canada was taken over by the city and is now being operated by a transportation commission.

Many difficulties are met in operating the cars during the winter season, owing to snow. This, however, has been overcome by the use of sweepers, scrapers and ploughs. The single overhead trolley system has been found the most suitable and is in general use. During the past few years an increasing number of motor buses have been used; in 1924 only 48 were operated, but by 1933 the number had increased to 531.

In addition to street railways in the cities there are several systems serving suburban areas and also doing an interurban business, but this latter class of service is fast being supplanted by motor bus service.

**Development of Electric Railway Traffic.**—Figures for the year 1893 show that 30 companies, with a paid-up capital of about \$9,000,000, operated 256 miles of railway. By 1897, 35 companies made returns showing 583 miles of track, 1,156 cars, 26,431,017 miles run, 83,811,306 passengers carried and capital of \$18,727,355. In 1904, 44 companies showed 766 miles of track, 2,373 passenger cars, 42,066,124 car miles run, 181,689,998 passengers and capital of \$50,399,188. The statistics for 1933 show that during that year 41 companies with a capital of \$200,098,870, had 1,864 miles computed as single track, 3,773 passenger cars, 531 buses, 298 freight cars and 45 electric locomotives, 119,162,796 car miles run, and 585,385,094 fare passengers. The number of employees in the service of electric railways on Dec. 31, 1933, was 14,883, as compared with 15,961 in 1932. Total salaries and wages for the year 1933 were \$18,692,236, as against \$21,534,419 in 1932.

**Statistics of Electric Railways.**—Summary statistics of the operation of electric railways in Canada from 1911 to 1933 inclusive are given by years in Table 25. It may be noted in this table that the carriage of freight reached its maximum in 1928, with 3,888,672 tons, while the number of fare passengers carried in 1929 reached a new record of 833,496,866, decreasing in 1933 to 585,385,094. In Table 26 statistics of mileage and equipment are given for the latest four calendar years, and statistics of the capital liability of electric railways are furnished for the years 1908-33 in Table 27. Detailed figures of the mileage operated, the capital liability, the earnings, operating expenses, passengers carried, employees and salaries and wages, are given for 1932 and 1933 in Tables 28 and 28A, while Table 29 shows by years from 1919 to 1933 the number of passengers, employees and others killed and injured on electric railways in Canada.

### 25.—Summary of Statistics of Electric Railway Operation, years ended June 30, 1911-19, and calendar years 1919-33.

Norm.—For figures for 1901-10, see p. 676 of the 1933 Year Book.

| Year. <sup>2</sup> | Single Track Mileage in Operation. | Total Car Mileage.      | Passengers.              | Freight.               | Gross Earnings.         | Operating Expenses.     | Ratio of Expenses to Receipts. | Em- ployees. |
|--------------------|------------------------------------|-------------------------|--------------------------|------------------------|-------------------------|-------------------------|--------------------------------|--------------|
|                    | miles.                             | miles.                  | No.                      | tons.                  | \$                      | \$                      | p.c.                           | No.          |
| 1911.....          | 1,223.73                           | 72,618,806              | 426,206,792              | 1,228,362              | 20,356,952              | 12,096,134              | 59.42                          | 13,671       |
| 1912.....          | 1,308.17                           | 82,070,064              | 488,865,682              | 1,435,525              | 23,499,250              | 14,266,675              | 60.71                          | 14,790       |
| 1913.....          | 1,356.63                           | 89,005,216              | 597,863,801              | 1,957,930              | 28,216,111              | 17,765,372              | 62.96                          | 16,351       |
| 1914.....          | 1,560.82                           | 98,917,808              | 614,709,819              | 1,845,923              | 26,691,007              | 19,107,818              | 64.36                          | 16,195       |
| 1915.....          | 1,590.29                           | 96,964,829              | 562,302,373              | 1,433,602              | 26,922,900              | 18,131,842              | 67.35                          | 14,795       |
| 1916.....          | 1,673.77                           | 82,516,612              | 580,094,167              | 1,936,674              | 27,416,285              | 18,099,906              | 66.02                          | 11,696       |
| 1917.....          | 1,743.54                           | 84,073,046              | 629,441,997              | 2,333,539              | 30,237,664              | 20,098,634              | 66.47                          | 11,646       |
| 1918.....          | 1,616.36 <sup>1</sup>              | 84,435,323 <sup>1</sup> | 487,365,456 <sup>1</sup> | 2,497,530 <sup>1</sup> | 24,299,890 <sup>1</sup> | 17,535,975 <sup>1</sup> | 72.16 <sup>1</sup>             | 11,242       |
| 1919.....          | 1,696.52                           | 106,961,607             | 686,124,263              | 2,474,892              | 35,696,532              | 26,839,071              | 75.18                          | 16,940       |
| 1920.....          | 1,686.78                           | 110,206,344             | 749,334,380              | 2,374,612              | 40,698,586              | 31,885,702              | 77.12                          | 17,341       |
| 1921.....          | 1,698.76                           | 114,481,406             | 804,711,333              | 2,687,814              | 47,047,246              | 37,242,483              | 79.16                          | 17,015       |
| 1922.....          | 1,687.37                           | 111,576,949             | 719,305,441 <sup>3</sup> | 2,282,292              | 44,536,832              | 35,945,816              | 80.71                          | 18,099       |
| 1923.....          | 1,724.60                           | 116,711,189             | 738,908,949              | 2,441,212              | 49,660,485              | 35,986,872              | 72.47                          | 17,779       |
| 1924.....          | 1,736.31                           | 119,374,416             | 737,282,038              | 3,141,992              | 50,191,387              | 36,171,923              | 72.07                          | 17,379       |
| 1925.....          | 1,736.77                           | 119,684,072             | 726,497,729              | 2,543,669              | 49,439,559              | 36,125,213              | 73.07                          | 16,933       |
| 1926.....          | 1,737.52                           | 119,684,151             | 726,491,101              | 2,701,823              | 49,626,231              | 35,426,487              | 71.39                          | 16,961       |
| 1927.....          | 1,684.18                           | 122,935,055             | 748,710,836              | 3,489,183              | 51,723,199              | 36,453,709              | 70.50                          | 18,890       |
| 1928.....          | 1,652.15                           | 131,583,717             | 781,398,194              | 3,265,237              | 53,506,401              | 37,616,568              | 69.71                          | 18,801       |
| 1929.....          | 1,653.22                           | 133,689,589             | 808,023,615              | 3,888,672              | 55,632,761              | 38,782,719              | 68.79                          | 18,340       |
| 1930.....          | 1,636.76                           | 139,199,634             | 833,496,866              | 3,653,411              | 58,268,980              | 40,085,140              | 72.05                          | 17,135       |
| 1931.....          | 1,508.99                           | 140,014,000             | 792,701,493              | 2,872,929              | 54,719,259              | 39,125,515              | 72.72                          | 15,961       |
| 1932.....          | 1,386.06                           | 133,883,489             | 720,468,361              | 1,977,441              | 49,088,310              | 35,367,068              | 72.73                          | 14,883       |
| 1933.....          | 1,313.33                           | 125,885,301             | 642,831,002              | 1,509,561              | 43,339,381              | 31,516,943              |                                |              |
| 1933.....          | 1,304.66                           | 119,162,796             | 585,385,094              | 1,547,202              | 39,383,965              | 27,917,265              |                                |              |

<sup>1</sup> Not including Montreal Tramways and several other units.

<sup>2</sup> Year ended June 30, 1911-19. Calendar years 1919-33.

<sup>3</sup> The Toronto Transportation Commission, which operated for the last four months of 1921 only and did not report, would increase this number by about 80,000,000 or possibly bring it up to the 1920 record.

### 26.—Mileage and Equipment of Electric Railways in the calendar years 1930-33.

| Item.                               | 1930.    | 1931.    | 1932.    | 1933.    | Equipment.                          | 1930. | 1931. | 1932. | 1933. |
|-------------------------------------|----------|----------|----------|----------|-------------------------------------|-------|-------|-------|-------|
|                                     | miles.   | miles.   | miles.   | miles.   |                                     | No.   | No.   | No.   | No.   |
| Length of first main track.....     | 1,508.99 | 1,386.06 | 1,313.33 | 1,304.66 | Passenger Cars—                     |       |       |       |       |
| Length of second main track.....    | 571.37   | 572.69   | 560.02   | 559.57   | Closed.....                         | 3,625 | 3,579 | 3,503 | 3,416 |
| Totals, Main Track.                 | 2,080.36 | 1,958.75 | 1,873.35 | 1,864.23 | Open.....                           | 90    | 76    | 38    | 32    |
| Length of sidings and turnouts..... | 286.80   | 278.63   | 274.93   | 274.81   | Combination passenger and baggage.. | 16    | 13    | 13    | 12    |
| Totals, Computed as Single Track..  | 2,367.16 | 2,237.38 | 2,148.28 | 2,139.04 | Without electrical equipment.....   | 369   | 376   | 347   | 313   |
|                                     |          |          |          |          | Totals, Passenger Cars.....         | 4,100 | 4,044 | 3,901 | 3,773 |
|                                     |          |          |          |          | Baggage, express and mail cars..... | 30    | 25    | 24    | 21    |
|                                     |          |          |          |          | Freight cars.....                   | 516   | 491   | 295   | 298   |
|                                     |          |          |          |          | Buses.....                          | 520   | 547   | 521   | 531   |
|                                     |          |          |          |          | Snow ploughs.....                   | 73    | 65    | 65    | 66    |
|                                     |          |          |          |          | Sweepers.....                       | 161   | 165   | 160   | 159   |
|                                     |          |          |          |          | Miscellaneous.....                  | 323   | 330   | 321   | 326   |
|                                     |          |          |          |          | Locomotives.....                    | 53    | 52    | 47    | 45    |
|                                     |          |          |          |          | Totals, Units of Equipment.....     | 5,776 | 5,719 | 5,334 | 5,219 |

### 27.—Capital Liability of Electric Railways, years ended June 30, 1908-19, and calendar years 1919-33.

NOTE.—The totals here given do not include \$493,346 aid paid by Governments and municipalities.

| Year. <sup>1</sup> | Stocks.    | Funded Debt. | Total.      | Year.     | Stocks.    | Funded Debt. | Total.      |
|--------------------|------------|--------------|-------------|-----------|------------|--------------|-------------|
|                    | \$         | \$           | \$          |           | \$         | \$           | \$          |
| 1908.....          | 50,295,266 | 37,114,619   | 87,409,885  | 1921..... | 91,169,885 | 86,017,551   | 177,187,436 |
| 1909.....          | 51,946,433 | 39,658,556   | 91,604,989  | 1922..... | 76,949,185 | 111,309,789  | 188,258,974 |
| 1910.....          | 58,653,826 | 43,391,153   | 102,044,979 | 1923..... | 76,674,185 | 122,395,685  | 199,069,870 |
| 1911.....          | 62,251,203 | 49,281,144   | 111,532,347 | 1924..... | 76,482,085 | 137,285,575  | 213,767,660 |
| 1912.....          | 70,829,118 | 52,012,828   | 122,841,946 | 1925..... | 58,567,242 | 163,201,978  | 221,769,220 |
| 1913.....          | 62,079,767 | 79,155,864   | 141,235,631 | 1926..... | 57,779,518 | 158,029,002  | 215,808,520 |
| 1914.....          | 66,311,098 | 81,284,244   | 147,595,342 | 1927..... | 58,873,778 | 163,678,939  | 222,552,717 |
| 1915.....          | 66,696,675 | 83,647,327   | 150,344,002 | 1928..... | 50,653,071 | 170,649,165  | 221,302,236 |
| 1916.....          | 67,738,275 | 87,157,309   | 154,895,584 | 1929..... | 54,453,321 | 167,969,494  | 222,422,815 |
| 1917.....          | 70,606,520 | 90,628,219   | 161,234,739 | 1930..... | 53,048,929 | 171,040,610  | 224,089,539 |
| 1918.....          | 73,864,820 | 93,388,273   | 167,253,093 | 1931..... | 45,155,649 | 170,662,447  | 215,818,096 |
| 1919.....          | 93,042,368 | 78,852,188   | 171,894,556 | 1932..... | 40,101,930 | 163,210,624  | 203,312,554 |
| 1919.....          | 91,757,418 | 81,283,922   | 173,041,340 | 1933..... | 39,851,230 | 160,247,640  | 200,098,870 |
| 1920.....          | 91,321,955 | 79,504,449   | 170,826,404 |           |            |              |             |

<sup>1</sup> Years ended June 30, 1908-19 and calendar years 1919-33.

### 28.—Mileage, Capital, Earnings, Operating Expenses, Passengers, Employees, and Salaries and Wages of Electric Railways in Canada, calendar year 1932.

| Name of Railway.                                                                  | Mileage Operated (Total Main Track). | Capital Liability. | Gross Earnings. | Operating Expenses. | Fare Passengers Carried. | Em- ployees. | Salaries and Wages. |
|-----------------------------------------------------------------------------------|--------------------------------------|--------------------|-----------------|---------------------|--------------------------|--------------|---------------------|
|                                                                                   | miles.                               | \$                 | \$              | \$                  | No.                      | No.          | \$                  |
| Brandon Municipal <sup>1,7</sup> .....                                            | —                                    | —                  | 7,927           | 9,732               | 114,623                  | —            | 5,429               |
| Brantford Municipal <sup>1,8</sup> .....                                          | 20-29                                | 490,500            | 77,812          | 78,159              | 1,439,462                | 59           | 52,382              |
| British Columbia.....                                                             | 302-46                               | 23,601,385         | 4,755,541       | 3,886,449           | 66,392,459               | 1,923        | 2,982,308           |
| Calgary Municipal.....                                                            | 77-02                                | 2,812,886          | 702,657         | 534,244             | 12,028,866               | 240          | 365,978             |
| Canadian Pacific.....                                                             | 75-36                                | 4,368,500          | 375,933         | 404,752             | 839,035                  | 193          | 253,578             |
| Cape Breton Tramways.....                                                         | 21-30                                | 5,400              | 87,364          | 73,641              | 1,008,479                | 38           | 41,996              |
| Cornwall Street Ry.<br>Light and Power Co....                                     | 5-00                                 | 333,000            | 89,825          | 54,120              | 1,219,725                | 37           | 44,816              |
| Edmonton Radial <sup>1</sup> .....                                                | 52-50                                | 2,423,941          | 728,571         | 489,796             | 12,168,125               | 256          | 354,202             |
| Fort William Street <sup>1</sup> .....                                            | 25-49                                | 1,229,000          | 139,773         | 132,665             | 2,294,181                | 61           | 85,586              |
| Hamilton Street.....                                                              | 34-30                                | 3,205,000          | 1,093,517       | 884,133             | 16,055,651               | 423          | 483,419             |
| Hull Electric.....                                                                | 28-76                                | 292,000            | 220,385         | 189,011             | 2,892,214                | 109          | 118,788             |
| Hydro-Electric Railways:                                                          |                                      |                    |                 |                     |                          |              |                     |
| Guelph District <sup>1,3</sup> .....                                              | 6-41                                 | 376,495            | 64,040          | 71,760              | 922,082                  | 39           | 45,822              |
| International Transit Co..                                                        | 6-14                                 | 150,000            | 42,489          | 41,145              | 766,581                  | 19           | 26,063              |
| Kitchener Public Utilities<br>Street Ry. Dept. <sup>1</sup> .....                 | 9-41                                 | 185,905            | 99,850          | 76,450              | 2,256,650                | 34           | 52,035              |
| Lethbridge Municipal <sup>1</sup> .....                                           | 11-00                                | 456,171            | 38,515          | 38,813              | 679,118                  | 16           | 25,103              |
| Lévis Tramways Co.....                                                            | 11-50                                | 1,115,000          | 126,513         | 109,019             | 1,872,156                | 69           | 70,020              |
| London and Port Stan-<br>ley (Lessors).....                                       | —                                    | 1,775,194          | —               | —                   | —                        | —            | —                   |
| London and Port Stan-<br>ley (Lessees).....                                       | 26-70                                | 1,446,569          | 305,773         | 334,517             | 388,387                  | 96           | 134,307             |
| London Street.....                                                                | 29-39                                | 1,112,480          | 511,655         | 434,626             | 9,060,769                | 193          | 243,975             |
| Montreal Tramways.....                                                            | 288-76                               | 55,882,500         | 13,206,110      | 8,713,175           | 210,807,129              | 4,681        | 6,250,390           |
| Montreal and Southern<br>Counties <sup>2</sup> .....                              | 54-67                                | 500,000            | 319,156         | 368,327             | 2,305,402                | 170          | 194,421             |
| Moose Jaw <sup>2</sup> .....                                                      | —                                    | —                  | 27,648          | 29,496              | 442,909                  | —            | 21,019              |
| Nelson Municipal <sup>1</sup> .....                                               | 3-38                                 | 46,000             | 15,245          | 24,951              | 344,721                  | 14           | 13,435              |
| New Brunswick Power<br>Co.....                                                    | 23-00                                | 2,823,369          | 319,486         | 277,560             | 5,346,758                | 124          | 143,923             |
| Niagara Falls Park<br>and River Division<br>of the Inter. Ry. <sup>10</sup> ..... | —                                    | —                  | 43,964          | 63,440              | 230,429                  | —            | 33,219              |
| Niagara, St. Catharines<br>and Toronto <sup>1</sup> .....                         | 59-58                                | 925,000            | 487,335         | 604,118             | 3,190,428                | 262          | 319,856             |
| Nipissing Central <sup>6</sup> .....                                              | 10-62                                | 4,437,109          | 32,639          | 45,259              | 364,246                  | 18           | 23,936              |
| North Yonge Railways <sup>4</sup> .....                                           | 10-34                                | 107,549            | 81,653          | 78,935              | 916,232                  | —            | —                   |
| Nova Scotia Light and<br>Power Co.....                                            | 24-91                                | 7,176,255          | 611,737         | 411,872             | 10,167,995               | 187          | 317,061             |

For footnotes see end of table, p. 729.



**28.—Mileage, Capital, Earnings, Operating Expenses, Passengers, Employees, and Salaries and Wages of Electric Railways in Canada, calendar year 1932—concluded.**

| Name of Railway.                                            | Mileage Operated (Total Main Track). | Capital Liability. | Gross Earnings.   | Operating Expenses. | Fare Passengers Carried. | Em-<br>ployees. | Salaries and Wages. |
|-------------------------------------------------------------|--------------------------------------|--------------------|-------------------|---------------------|--------------------------|-----------------|---------------------|
|                                                             | miles.                               | \$                 | \$                | \$                  | No.                      | No.             | \$                  |
| Oshawa <sup>2</sup> .....                                   | 8.95                                 | 40,000             | 140,415           | 120,259             | 525,330                  | 91              | 84,714              |
| Ottawa.....                                                 | 52.43                                | 4,083,599          | 1,466,662         | 943,843             | 23,472,347               | 482             | 623,427             |
| Port Arthur Civic <sup>1</sup> .....                        | 19.53                                | 550,584            | 139,539           | 120,124             | 2,227,744                | 49              | 77,055              |
| Quebec County <sup>12</sup> .....                           | 4.68                                 | 100,000            | 37,761            | 37,014              | 433,517                  | —               | —                   |
| Quebec Railway, Light and Power Co. <sup>1</sup> .....      | 33.51                                | —                  | 938,116           | 883,758             | 16,254,323               | 429             | 514,460             |
| Regina Municipal <sup>1</sup> .....                         | 28.62                                | 2,008,018          | 297,636           | 231,624             | 4,114,293                | 96              | 165,634             |
| Sandwich, Windsor and Amherstburg <sup>1,3</sup> .....      | 59.80                                | 5,816,205          | 554,521           | 548,088             | 7,614,992                | 241             | 279,715             |
| Saskatoon Municipal <sup>1</sup> .....                      | 23.10                                | 1,376,419          | 277,329           | 225,525             | 4,542,767                | 91              | 137,744             |
| Shawinigan Falls Terminal.....                              | 3.39                                 | 409,607            | 54,915            | 62,600              | —                        | 21              | 30,800              |
| Suburban Rapid Transit Co. <sup>1</sup> .....               | 19.86                                | 600,000            | 137,775           | 97,606              | 2,318,742                | —               | —                   |
| Sudbury, Copper Cliff Suburban.....                         | 7.90                                 | 248,100            | 44,671            | 42,749              | 456,323                  | 19              | 23,205              |
| Three Rivers Traction Co. <sup>1</sup> .....                | 7.65                                 | 899,700            | 96,595            | 99,901              | 1,285,717                | 47              | 56,348              |
| Toronto Transportation Commission <sup>1</sup> .....        | 222.22                               | 32,697,440         | 11,068,098        | 6,835,959           | 165,275,187              | 3,967           | 5,303,532           |
| Township of York and Town of Weston <sup>1,4</sup> .....    | 14.06                                | 1,062,418          | 239,020           | 187,617             | 4,857,398                | —               | —                   |
| Windsor, Essex and Lake Shore Rapid <sup>1,5,11</sup> ..... | —                                    | —                  | 95,938            | 123,403             | 464,407                  | —               | 53,045              |
| Winnipeg.....                                               | 107.41                               | 35,246,256         | 2,985,661         | 2,355,356           | 41,615,890               | 1,134           | 1,445,051           |
| Winnipeg, Selkirk and Lake Winnipeg.....                    | 42.05                                | 900,000            | 151,616           | 141,352             | 857,213                  | 33              | 36,622              |
| <b>Totals</b> .....                                         | <b>1,873.35</b>                      | <b>203,312,554</b> | <b>43,339,381</b> | <b>31,516,943</b>   | <b>642,831,002</b>       | <b>15,961</b>   | <b>21,534,419</b>   |

<sup>1</sup> Municipally owned. <sup>2</sup> Stock owned by Canadian National Rys. <sup>3</sup> Operated by the Hydro-Electric Power Commission of Ontario. <sup>4</sup> Citadel division operations only. Total capital and operations of the Montmorency division are included in steam railways. <sup>5</sup> Operated by Toronto Transportation Commission. <sup>6</sup> Provincially owned. <sup>7</sup> Ceased operation April 30, 1932. <sup>8</sup> Bus service substituted from Oct. 1, 1932 to Jan. 8, 1933. <sup>9</sup> Ceased operation Oct. 8, 1932. <sup>10</sup> Ceased operation Sept. 11, 1932. <sup>11</sup> Ceased operation Sept. 15, 1932. <sup>12</sup> Operated by Quebec Railway, Light and Power Co.

**28A.—Mileage, Capital, Earnings, Operating Expenses, Passengers, Employees, and Salaries and Wages of Electric Railways in Canada, calendar year 1933.**

| Name of Railway.                                               | Mileage Operated (Total Main Track). | Capital Liability. | Gross Earnings. | Operating Expenses. | Fare Passengers Carried. | Em-<br>ployees. | Salaries and Wages. |
|----------------------------------------------------------------|--------------------------------------|--------------------|-----------------|---------------------|--------------------------|-----------------|---------------------|
|                                                                | miles.                               | \$                 | \$              | \$                  | No.                      | No.             | \$                  |
| Brantford Municipal <sup>1</sup> .....                         | 20.29                                | 767,155            | 88,895          | 82,491              | 1,534,791                | 55              | 43,990              |
| British Columbia.....                                          | 302.27                               | 23,332,525         | 4,474,689       | 3,427,355           | 62,412,808               | 1,850           | 2,631,912           |
| Calgary Municipal <sup>1</sup> .....                           | 77.02                                | 2,812,886          | 627,551         | 440,029             | 10,781,399               | 206             | 298,687             |
| Canadian Pacific.....                                          | 75.36                                | 4,368,500          | 348,791         | 356,948             | 805,646                  | 172             | 226,711             |
| Cape Breton Tramways.....                                      | 21.30                                | 5,400              | 84,728          | 79,118              | 983,710                  | 38              | 44,947              |
| Cornwall Street Ry., Light and Power Co. <sup>1</sup> .....    | 5.00                                 | 330,000            | 103,993         | 52,354              | 1,141,378                | 37              | 46,007              |
| Edmonton Radial <sup>1</sup> .....                             | 52.50                                | 1,025,893          | 677,459         | 488,929             | 11,321,146               | 255             | 344,975             |
| Fort William Street <sup>1</sup> .....                         | 25.49                                | 864,000            | 118,029         | 132,072             | 2,057,575                | 61              | 77,449              |
| Hamilton Street.....                                           | 34.30                                | 3,205,000          | 782,320         | 711,348             | 11,900,637               | 347             | 405,038             |
| Hull Electric.....                                             | 28.76                                | 292,000            | 184,851         | 169,761             | 2,294,357                | 98              | 100,398             |
| Hydro-Electric Railways: Guelph District <sup>1,3</sup> .....  | 6.41                                 | 368,144            | 58,402          | 69,750              | 844,618                  | 35              | 38,353              |
| International Transit Co. <sup>1</sup> .....                   | 6.14                                 | 150,000            | 32,946          | 34,959              | 647,422                  | 19              | 23,394              |
| Kitchener Public Utilities Street Ry. Dept. <sup>1</sup> ..... | 9.41                                 | 169,824            | 92,427          | 74,260              | 2,023,536                | 33              | 50,120              |
| Lethbridge Municipal <sup>1</sup> .....                        | 11.00                                | 455,167            | 32,496          | 35,144              | 563,004                  | 16              | 22,948              |
| Lévis Tramways Co. <sup>1</sup> .....                          | 11.50                                | 1,115,000          | 109,764         | 96,370              | 1,557,686                | 67              | 65,041              |
| London and Port Stanley (Lessors).....                         | —                                    | 1,775,194          | —               | —                   | —                        | —               | —                   |
| London and Port Stanley (Lessees).....                         | 26.70                                | 1,663,536          | 284,911         | 311,711             | 349,789                  | 91              | 116,746             |

For footnotes see end of table, p. 730.

**28A.—Mileage, Capital, Earnings, Operating Expenses, Passengers, Employees, and Salaries and Wages of Electric Railways in Canada, calendar year 1933—concluded.**

| Name of Railway.                                                         | Mileage<br>Operated<br>(Total<br>Main<br>Track). | Capital<br>Liability. | Gross<br>Earnings. | Operating<br>Expenses. | Fare<br>Passengers<br>Carried. | Em-<br>ployees. | Salaries<br>and<br>Wages. |
|--------------------------------------------------------------------------|--------------------------------------------------|-----------------------|--------------------|------------------------|--------------------------------|-----------------|---------------------------|
|                                                                          | miles.                                           | \$                    | \$                 | \$                     | No.                            | No.             | \$                        |
| London Street.....                                                       | 29-39                                            | 1,097,480             | 469,154            | 394,884                | 8,282,454                      | 195             | 221,637                   |
| Montreal Tramways.....                                                   | 289-31                                           | 55,763,200            | 12,243,913         | 7,848,907              | 196,141,103                    | 4,438           | 5,376,903                 |
| Montreal and Southern<br>Counties <sup>2</sup> .....                     | 54-67                                            | 500,000               | 294,443            | 322,534                | 2,149,551                      | 164             | 180,016                   |
| Nelson Municipal <sup>1</sup> .....                                      | 3-38                                             | 46,000                | 14,405             | 23,138                 | 332,614                        | 14              | 14,182                    |
| New Brunswick Power Co.. <sup>3</sup>                                    | 23-00                                            | 2,820,636             | 281,471            | 256,345                | 4,640,361                      | 121             | 129,267                   |
| Niagara, St. Catharines and<br>Toronto <sup>2</sup> .....                | 59-58                                            | 925,000               | 450,556            | 471,550                | 2,783,035                      | 244             | 295,163                   |
| Nipissing Central <sup>1</sup> .....                                     | 10-52                                            | 4,437,441             | 25,312             | 31,305                 | 728,355                        | 13              | 16,501                    |
| North Yonge Railway <sup>1</sup> , <sup>5</sup> ..                       | 10-34                                            | 107,549               | 71,933             | 72,557                 | 829,062                        | -               | -                         |
| Nova Scotia Light and<br>Power Co. <sup>1</sup> .....                    | 24-91                                            | 7,136,755             | 545,006            | 373,990                | 9,100,077                      | 185             | 270,130                   |
| Oshawa <sup>2</sup> .....                                                | 8-95                                             | 40,000                | 140,631            | 101,671                | 496,742                        | 77              | 77,790                    |
| Ottawa.....                                                              | 52-43                                            | 3,965,499             | 1,281,037          | 872,255                | 20,533,876                     | 459             | 569,118                   |
| Port Arthur Civic <sup>1</sup> .....                                     | 19-53                                            | 504,634               | 127,790            | 111,069                | 2,120,632                      | 55              | 74,790                    |
| Quebec County <sup>7</sup> .....                                         | 4-97                                             | 100,000               | 36,142             | 35,737                 | 378,550                        | -               | -                         |
| Quebec Railway, Light and<br>Power Co. <sup>4</sup> .....                | 31-42                                            | -                     | 830,020            | 777,691                | 14,472,041                     | 413             | 420,755                   |
| Regina Municipal <sup>1</sup> .....                                      | 28-62                                            | 2,008,018             | 262,560            | 201,313                | 3,794,676                      | 99              | 137,636                   |
| Sandwich, Windsor and<br>Amherstburg <sup>1</sup> , <sup>3</sup> .....   | 59-80                                            | 6,816,205             | 489,205            | 493,505                | 6,981,237                      | 220             | 280,250                   |
| Saskatoon Municipal <sup>1</sup> .....                                   | 23-10                                            | 1,376,419             | 216,968            | 173,985                | 3,509,391                      | 85              | 108,780                   |
| Shawinigan Falls Terminal. <sup>1</sup>                                  | 3-39                                             | 444,160               | 47,615             | 59,560                 | -                              | 18              | 29,500                    |
| Suburban Rapid Transit Co. <sup>1</sup>                                  | 19-86                                            | 600,000               | 121,467            | 78,715                 | 2,022,011                      | -               | -                         |
| Sudbury, Copper Cliff Sub-<br>urban.....                                 | 7-90                                             | 248,100               | 46,451             | 39,830                 | 448,688                        | 19              | 20,849                    |
| Three Rivers Traction Co. <sup>8</sup>                                   | -                                                | -                     | 79,169             | 76,088                 | 1,032,291                      | -               | 47,887                    |
| Toronto Transportation<br>Commission <sup>1</sup> .....                  | 222-19                                           | 31,318,760            | 10,141,352         | 6,104,983              | 150,861,647                    | 3,647           | 4,632,593                 |
| Township of York and Town<br>of Weston <sup>1</sup> , <sup>5</sup> ..... | 14-06                                            | 996,534               | 206,682            | 173,244                | 4,217,478                      | -               | -                         |
| Winnipeg.....                                                            | 107-41                                           | 35,246,256            | 2,713,449          | 2,130,562              | 37,991,779                     | 1,005           | 1,220,674                 |
| Winnipeg, Selkirk and Lake<br>Winnipeg.....                              | 42-05                                            | 900,000               | 144,982            | 129,248                | 767,941                        | 29              | 31,099                    |
| <b>Totals.....</b>                                                       | <b>1,864-23</b>                                  | <b>200,098,870</b>    | <b>39,383,965</b>  | <b>27,917,265</b>      | <b>585,385,094</b>             | <b>14,883</b>   | <b>18,692,236</b>         |

<sup>1</sup> Municipally owned. <sup>2</sup> Stock owned by Canadian National Ry. <sup>3</sup> Operated by the Hydro-Electric Power Commission of Ontario. <sup>4</sup> Citadel division operations only. Total capital and operations of the Montmorency division are included in steam railways. <sup>5</sup> Operated by Toronto Transportation Commission. <sup>6</sup> Provincially owned. <sup>7</sup> Operated by Quebec Railway, Light and Power Co. <sup>8</sup> Ceased operation Sept. 12, 1933.

**29.—Numbers of Passengers, Employees and Others Killed and Injured on Electric Railways, calendar years 1919-33, with Totals from 1894 to June 30, 1919.**

NOTE.—Details for years ended June 30, 1900-19 are given on p. 611 of the 1926 Year Book.

| Calendar Year.                           | Passengers. |               | Employees. |              | Others.    |               | Totals.      |               |
|------------------------------------------|-------------|---------------|------------|--------------|------------|---------------|--------------|---------------|
|                                          | Killed.     | Injured.      | Killed.    | Injured.     | Killed.    | Injured.      | Killed.      | Injured.      |
| <b>Totals, 1894 to June 30, 1919....</b> | <b>259</b>  | <b>23,802</b> | <b>162</b> | <b>5,009</b> | <b>833</b> | <b>10,608</b> | <b>1,254</b> | <b>39,419</b> |
| 1919.....                                | 4           | 1,717         | 29         | 951          | 58         | 1,505         | 91           | 4,173         |
| 1920.....                                | 9           | 1,968         | 7          | 658          | 75         | 1,434         | 91           | 4,060         |
| 1921.....                                | 5           | 1,110         | 8          | 609          | 35         | 666           | 48           | 2,385         |
| 1922.....                                | 6           | 2,260         | 10         | 873          | 31         | 700           | 47           | 3,833         |
| 1923.....                                | 6           | 2,465         | 11         | 1,652        | 45         | 790           | 62           | 4,907         |
| 1924.....                                | 2           | 2,279         | 6          | 1,262        | 54         | 824           | 62           | 4,365         |
| 1925.....                                | 9           | 2,272         | 5          | 1,736        | 37         | 744           | 51           | 4,752         |
| 1926.....                                | 3           | 2,420         | 7          | 1,642        | 66         | 879           | 76           | 4,941         |
| 1927.....                                | -           | 2,090         | 7          | 1,508        | 71         | 1,260         | 78           | 4,858         |
| 1928.....                                | 1           | 2,735         | 12         | 1,114        | 86         | 1,139         | 99           | 4,988         |
| 1929.....                                | 5           | 2,808         | 6          | 1,200        | 93         | 1,372         | 103          | 5,380         |
| 1930.....                                | 8           | 2,790         | 6          | 1,003        | 50         | 1,269         | 64           | 5,062         |
| 1931.....                                | 1           | 2,245         | 3          | 758          | 61         | 1,144         | 65           | 4,147         |
| 1932.....                                | 3           | 2,098         | 2          | 565          | 74         | 879           | 79           | 3,542         |
| 1933.....                                | -           | 1,385         | 1          | 333          | 32         | 1,184         | 33           | 2,902         |

## PART IV.—EXPRESS COMPANIES.\*

"Express service is an expedited freight service on passenger trains". But express companies do not own the means of performing their services; they use railway facilities by virtue of contracts with the railway companies. Express companies in Canada have had close relations with the railways practically from the beginning. A brief history of the various express companies will be found on pp. 611-612 of the 1926 Year Book.

Before 1915, an express company in Canada was not liable for delay or damage caused by anything quite beyond its control, thus maintaining itself as an entity separate from the railway company. Thenceforth an express company became liable for delay or injury of goods if either was caused by the railway company in whose cars the goods were being carried.

Goods are sent by express for quick transit, so that express rates do not compete with freight rates. Thus in its first tariff the Dominion Express Co., in pursuance of its contract with the Canadian Pacific Railway, gave a rate of  $2\frac{1}{2}$  times the maximum first-class railway freight rate for the same goods carried the same distance. The majority of the contracts between express and railway companies for carrying express freight are on the basis of a percentage of the gross express revenue. The rates are subject to the approval of the Board of Railway Commissioners.

**Express Company Operations.**—During 1933, the latest year for which the statistics of the Transportation Branch of the Dominion Bureau of Statistics are available, there were three Canadian and one American express organizations operating in Canada. The Canadian Pacific Express Co., formerly the Dominion Express Co., is a subsidiary of the Canadian Pacific Railway and handles the express business on the railways and the inland and ocean steamship lines of the parent company. The express business of the Canadian National system is handled by a department of the railway. When the Central Canada, the Edmonton, Dunvegan and British Columbia and the Alberta and Great Waterways railways were amalgamated to form the Northern Alberta Railways Company, the express business was handled by a department of the new company from Nov. 1, 1929. The Railway Express Agency, Inc., operates over the Canadian sections of United States railways and over the route from Skagway to points in Yukon. These companies are all organized under powers conferred by Acts of the Dominion Parliament and their business consists in the forwarding of parcels, the transfer of baggage and the issue of money orders, travellers cheques, letters of credit and other forms of financial paper. The total capital liabilities of the three Canadian companies and departments stood at \$6,244,173 on Dec. 31, 1933.

Statistics of the receipts and expenses of express companies in Canada are given in summary form for all companies for the years 1919 to 1933 in Table 30, and for each company for the years 1932 and 1933 in Table 31. In these tables the amounts paid by express companies to the carriers, *i.e.*, railways, steamship lines, etc., for transporting the express matter, are shown under the heading "express privileges". Table 31 also shows the mileage operated by each company in 1932 and 1933. Of the total of 62,405 miles, 42,471 were over steam railways, 279 over electric railways, 14,227 on ocean steamship services (mainly by the Canadian Pacific lines), 5,176 miles on inland or coastal steamboat routes and 252 miles over other carriers.

\*Revised and checked by G. S. Wrong, B.Sc., Chief of the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics. This Branch issues an annual report on Express Statistics.



**30.—Summary Statistics of Revenues and Expenses of Express Companies, calendar years 1919-33.**

NOTE.—Similar figures for the years ended June 30, 1911-19, were published at p. 673 of the 1927-28 Year Book.

| Calendar Year. | Gross Earnings. | Operating Expenses. | Express Privileges.    | Net Operating Revenue. |
|----------------|-----------------|---------------------|------------------------|------------------------|
|                | \$              | \$                  | \$                     | \$                     |
| 1919.....      | 24,933,219      | 13,227,652          | 12,936,615             | -1,231,048             |
| 1920.....      | 30,512,504      | 16,120,880          | 16,009,460             | -1,617,836             |
| 1921.....      | 32,504,894      | 15,601,187          | 16,549,915             | 353,792                |
| 1922.....      | 28,697,332      | 13,596,518          | 14,581,789             | 519,025                |
| 1923.....      | 27,625,700      | 13,217,780          | 14,342,410             | 65,511                 |
| 1924.....      | 26,196,017      | 12,723,651          | 13,557,168             | -84,802                |
| 1925.....      | 25,876,342      | 12,336,485          | 13,312,960             | 226,897                |
| 1926.....      | 26,554,378      | 12,442,257          | 13,466,863             | 645,258                |
| 1927.....      | 26,532,182      | 12,548,374          | 13,275,355             | 708,453                |
| 1928.....      | 27,674,270      | 13,032,376          | 13,459,187             | 1,182,707              |
| 1929.....      | 27,768,385      | 13,480,028          | 13,598,575             | 679,782                |
| 1930.....      | 24,352,181      | 12,759,439          | 12,380,060             | -787,318               |
| 1931.....      | 20,115,285      | 11,292,957          | 10,909,184             | -2,086,856             |
| 1932.....      | 16,870,806      | 9,479,802           | 7,307,980 <sup>1</sup> | 83,023                 |
| 1933.....      | 15,226,015      | 8,497,892           | 6,605,225 <sup>1</sup> | 122,898                |

<sup>1</sup>Decrease due largely to revision of basis of payment by Canadian Pacific Express Co.

**31.—Revenues, Expenses and Operating Mileage of Express Companies, by Companies, calendar years 1932 and 1933.**

| Company.                        | Gross Earnings.   | Operating Expenses. | Express Privileges.    | Net Operating Revenue. | Mileage Operated. |
|---------------------------------|-------------------|---------------------|------------------------|------------------------|-------------------|
|                                 | \$                | \$                  | \$                     | \$                     | No.               |
| <b>1932.</b>                    |                   |                     |                        |                        |                   |
| Canadian National Railways..... | 8,850,234         | 4,927,280           | 3,965,679              | -42,725                | 24,320            |
| Canadian Pacific Express.....   | 7,355,144         | 4,271,249           | 2,980,424 <sup>1</sup> | 103,471                | 32,897            |
| Northern Alberta Railways.....  | 85,821            | 31,910              | 44,818                 | 9,093                  | 927               |
| Railway Express Agency.....     | 579,607           | 249,363             | 317,059                | 13,185                 | 4,902             |
| <b>Totals.....</b>              | <b>16,870,806</b> | <b>9,479,802</b>    | <b>7,307,980</b>       | <b>83,024</b>          | <b>63,046</b>     |
| <b>1933.</b>                    |                   |                     |                        |                        |                   |
| Canadian National Railways..... | 7,906,192         | 4,367,926           | 3,532,251              | 6,015                  | 24,332            |
| Canadian Pacific Express.....   | 6,822,297         | 3,886,299           | 2,841,835 <sup>1</sup> | 94,163                 | 32,905            |
| Northern Alberta Railways.....  | 84,055            | 30,419              | 46,020                 | 7,616                  | 928               |
| Railway Express Agency.....     | 413,471           | 213,248             | 185,119                | 15,104                 | 4,240             |
| <b>Totals.....</b>              | <b>15,226,015</b> | <b>8,497,892</b>    | <b>6,605,225</b>       | <b>122,898</b>         | <b>62,405</b>     |

<sup>1</sup> See footnote to Table 30.

**32.—Business Transacted by Express Companies in Financial Paper, calendar years 1929-33.**

| Description.                       | 1929.             | 1930.             | 1931.             | 1932.             | 1933.             |
|------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                    | \$                | \$                | \$                | \$                | \$                |
| Money orders, domestic.....        | 62,812,788        | 52,941,500        | 42,706,134        | 35,999,361        | 34,696,463        |
| Money orders, foreign.....         | 1,494,848         | 1,190,244         | 658,677           | 479,738           | 511,561           |
| Travellers' cheques, domestic..... | 5,474,960         | 5,928,660         | 4,857,697         | 2,538,537         | 2,549,571         |
| Travellers' cheques, foreign.....  | 1,789,439         | 1,115,289         | 686,375           | 974,465           | 832,488           |
| "C.O.D." cheques.....              | 8,206,098         | 7,194,178         | 5,324,188         | 4,448,486         | 4,186,525         |
| Telegraphic transfers.....         | 561,414           | 557,869           | 486,738           | 324,118           | 271,682           |
| Other forms.....                   | 2,335,914         | 1,707,910         | 916,814           | 746,319           | 531,322           |
| <b>Totals.....</b>                 | <b>82,675,461</b> | <b>70,635,650</b> | <b>55,636,623</b> | <b>45,511,024</b> | <b>43,579,612</b> |



## PART V.—ROADS AND HIGHWAYS.\*

**Historical.**—The early roads were auxiliary to water routes as avenues of transportation. They were used during the summer season, when portages were necessary to avoid obstacles to river and lake travel, and during the winters, when ice prevented navigation. Even the extensive system of waterways of Eastern Canada was an inadequate means of communication between points of settlement in a rapidly growing colony, and the need for overland routes manifested itself in the introduction of the system of common roads which prevailed under the old *régime*. Not only did the crude early roads serve the needs of the settlers, but also those of the British, French and American armies during the numerous campaigns. Soldiers were frequently employed, in times of peace, on road construction in different parts of Upper and Lower Canada.

The first important highway in Canada extended along the north shore of the St. Lawrence from Quebec to Montreal, being gradually completed with the growth of the French settlements. In Upper Canada, one of the earliest roads (Yonge St.) was that from Toronto to lake Simcoe, completed in 1794 under the direction of Governor Simcoe, the work being done by the Queen's Rangers. This road not only gave access to the area north of Toronto, but also provided a more convenient route than that of the Ottawa river from the trading posts on the Upper Lakes to the centres of population along the St. Lawrence. Montreal was joined to Kingston by road in 1816, and in the following year to Toronto. Thereafter, other highways to inland settlements, from points served by water routes, began to increase in number, as it became apparent that they were essential to the commercial life of the country for transporting supplies to the settlers and bringing their products to the central markets of the colony. The system of posts, which had been established about the beginning of the nineteenth century, necessitated passable routes between the various points, and by 1827 a through road was available between Halifax and Amherstburg, comprising for the most part the old Kempt road, the York road, Dundas street and the Baldoon road. From this trunk line of communication branch roads extended north and south to the more important centres of population in the two Canadas. The cost of construction of these roads was high, and travel by stage coach was tedious and costly. As late as 1850 some points in central Ontario were still inaccessible to any vehicle. Later years, however, have brought with them improved methods of construction and a resulting reduction in expenses, together with an improvement in the wearing qualities of the more important highways.

**Recent Highway Development.**—The growth of motor traffic during and since the War has greatly stimulated the movement for increased and improved road construction. Good roads associations assisted by the automobile clubs are to be found in most of the provinces for the education of the public in the need for improved highways. With the rapid increase in the percentage of motor car owners to the population (see pp. 737-738) the demand for improved roads became insistent after the War. Furthermore, the advantages to be gained by attracting touring motorists have been a powerful incentive to governing bodies to improve trunk roads and scenic highways within their jurisdictions. One sphere where the motor car has been of special economic advantage has been in rural areas, where its speed and economy are a great improvement over the old horse-drawn vehicle.

\*Revised by G. S. Wrong, B.Sc., Chief of the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics, which publishes an annual report entitled "Highways and Motor Vehicles in Canada".

As a result, in the Census of 1931 every second farm reported a farm-owned motor vehicle (1.96 farms per farm-owned motor vehicle). This widespread rural ownership of automobiles has resulted in the improvement of secondary rural roads.

A table of road mileage in Canada follows. These roads do not include those within the boundaries of urban municipalities and average about one mile of road for each 10 rural inhabitants or for each 26 persons, both rural and urban. There are great stretches of country in the northern portions of Quebec, Ontario, the Prairie Provinces and British Columbia with very few people and very few roads, but the southern portions are well supplied. A Trans-Canada highway is now under construction, running from the Atlantic to the Pacific oceans entirely in Canadian territory.

### 33.—Classification of Canadian Highways, by Provinces, Dec. 31, 1933.

| Province.                       | Unimproved.    | Improved Earth. | Gravel.       | Water-bound Macadam. | Bituminous Macadam. | Bituminous Concrete. | Cement Concrete. | Total.                     |
|---------------------------------|----------------|-----------------|---------------|----------------------|---------------------|----------------------|------------------|----------------------------|
|                                 | miles.         | miles.          | miles.        | miles.               | miles.              | miles.               | miles.           | miles.                     |
| P.E. Island.....                | 1,865          | 1,601           | 175           | —                    | —                   | 5                    | 2                | 3,651                      |
| Nova Scotia.....                | 6,433          | 3,634           | 4,616         | 30                   | 29                  | —                    | —                | 14,742                     |
| New Brunswick....               | 1,800          | 4,660           | 5,350         | —                    | 13                  | —                    | —                | 11,825                     |
| Quebec.....                     | —              | 18,943          | 13,960        | 1,354                | 180                 | 127                  | 534              | 35,098                     |
| Ontario.....                    | —              | 18,232          | 45,596        | 1,153                | 1,357               | 650                  | 1,552            | 68,540                     |
| Manitoba <sup>1</sup> .....     | 28,502         | 1,301           | 4,526         | —                    | —                   | 20                   | 26               | 34,375                     |
| Saskatchewan <sup>1</sup> ....  | 56,884         | 96,691          | 2,156         | —                    | —                   | —                    | —                | 155,731                    |
| Alberta.....                    | 40,383         | 20,110          | 2,261         | —                    | 80                  | —                    | —                | 62,834                     |
| British Columbia <sup>2</sup> . | 2,769          | 10,597          | 8,053         | 42                   | 599                 | 71                   | 46               | 22,328                     |
| <b>Totals.....</b>              | <b>138,636</b> | <b>175,769</b>  | <b>86,693</b> | <b>2,579</b>         | <b>2,258</b>        | <b>873</b>           | <b>2,160</b>     | <b>409,124<sup>3</sup></b> |

<sup>1</sup> Manitoba and Saskatchewan figures are as at April 30, 1934. <sup>2</sup> B.C. figures are as at Mar. 31, 1933.

<sup>3</sup> Includes 156 miles of other classes.

The great improvement indicated above in the extent and character of Canadian highways has entailed the expenditure of large sums by governing bodies, chiefly provincial or municipal authorities, as roads are under their jurisdiction. Unfortunately, there are no comprehensive or comparable statistics available regarding these expenditures prior to 1928. Expenditures by the Dominion Government have taken the form of subsidies to the provinces for specific highways and have been made under the Canada Highways Act, 1919, largely in the few years immediately after the War, and under relief legislation during the present depression to aid in providing useful employment. These subsidies paid in the years 1931-33 are shown in Table 34.

**The Canada Highways Act.**—Partly in response to the general demand for improved highways and partly to increase civilian employment at the end of the War, the Dominion Parliament, by c. 54 of the Statutes of 1919, authorized the expenditure of \$20,000,000 for the purpose of constructing and improving the highways of Canada during the five years succeeding the passage of the Act. In its apportionment, grants of \$80,000 were made to each province during each of the five years, the remainder being allotted in proportion to their respective populations. By c. 4 of 1923 and c. 4 of 1925 the operation of the Act was extended to April 1, 1928. A table on p. 669 of the Canada Year Book, 1929, shows the working of the Act and the allocation of expenditure as between the Dominion and the various provinces down to Mar. 31, 1928, by which time the grant had been expended. Road projects subsidized under the Act amounted to 8,753 miles with an estimated subsidizable cost of \$49,581,192.

**Road Expenditures by Provinces and Municipalities.**—Table 34 presents the available statistics of expenditures on highways in the latest five years. However, the limitations of the statistics in this table should be clearly realized. These expenditures cover only national and provincial highways, secondary highways and other important roads to which the Provincial Governments contribute, together with the bridges or ferries necessary to such highways. The figures do not include expenditures on roads or streets within urban municipalities, nor expenditures by rural municipalities on local roads to which no contribution is made by the Provincial Governments. Expenditures for both construction and maintenance of municipal roads receiving subsidies are often made over and above the amounts upon which subsidies are granted and these extra expenditures are not included. Although the record of expenditures on roads by municipalities is incomplete, the principal highways, which are the expensive roads to construct and maintain, are under provincial jurisdiction, so that only a small percentage of the total expenditures is omitted. In the Maritime Provinces all road expenditures are made by the Provincial Governments.

**34.—Capital and Maintenance Expenditures on Provincial Highways or Provincially Subsidized Highways in Canada, calendar years 1929-33.**

CAPITAL EXPENDITURES.

| Province.                    | 1929.             | 1930.             | 1931.             | 1932.             | 1933.             |
|------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                              | \$                | \$                | \$                | \$                | \$                |
| Prince Edward Island.....    | 237,000           | 190,000           | 310,000           | 278,111           | 69,254            |
| Nova Scotia.....             | 1,248,037         | 2,808,554         | 4,197,512         | 1,742,887         | 2,865,306         |
| New Brunswick.....           | 5,521,430         | 7,328,285         | 3,595,651         | 2,668,576         | 761,056           |
| Quebec.....                  | 6,471,432         | 10,092,281        | 11,872,767        | 14,551,902        | 8,587,085         |
| Ontario.....                 | 22,351,703        | 26,025,136        | 23,708,855        | 23,062,693        | 10,270,065        |
| Manitoba.....                | 2,970,998         | 3,080,739         | 2,779,216         | 112,348           | 102,707           |
| Saskatchewan.....            | 5,926,630         | 9,437,007         | 6,702,181         | 340,527           | 225,860           |
| Alberta.....                 | 4,391,600         | 5,574,952         | 4,378,861         | 1,270,096         | 235,541           |
| British Columbia.....        | 6,054,330         | 5,461,279         | 8,705,186         | 6,004,369         | 738,705           |
| <b>Canada.....</b>           | <b>55,173,160</b> | <b>69,998,233</b> | <b>66,250,229</b> | <b>59,031,509</b> | <b>23,854,579</b> |
| Dominion subsidies.....      | —                 | —                 | 4,262,545         | 15,615,601        | 3,604,960         |
| Provincial expenditures..... | —                 | 56,022,066        | 51,373,740        | 30,409,115        | 18,435,612        |
| Municipal expenditures.....  | —                 | 13,976,167        | 10,613,944        | 4,006,793         | 1,814,007         |

MAINTENANCE EXPENDITURES.

|                              |                   |                   |                   |                   |                   |
|------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Prince Edward Island.....    | 153,000           | 145,000           | 340,800           | 175,473           | 270,055           |
| Nova Scotia.....             | 1,782,138         | 2,055,824         | 1,895,458         | 1,719,748         | 1,894,967         |
| New Brunswick.....           | 1,035,168         | 993,864           | 747,121           | 904,646           | 742,394           |
| Quebec.....                  | 4,360,861         | 5,108,690         | 4,855,460         | 5,432,742         | 3,388,343         |
| Ontario.....                 | 9,584,523         | 9,741,537         | 8,123,150         | 8,672,678         | 5,729,138         |
| Manitoba.....                | 588,301           | 734,328           | 906,013           | 572,519           | 397,317           |
| Saskatchewan.....            | 541,335           | 745,398           | 1,048,664         | 528,428           | 1,361,721         |
| Alberta.....                 | 651,556           | 1,080,746         | 2,086,754         | 945,249           | 780,533           |
| British Columbia.....        | 2,412,804         | 2,497,430         | 2,283,733         | 2,509,854         | 2,085,557         |
| <b>Canada.....</b>           | <b>21,109,686</b> | <b>23,102,817</b> | <b>22,287,153</b> | <b>21,461,337</b> | <b>16,650,475</b> |
| Dominion subsidies.....      | —                 | —                 | 19,090            | 167,024           | 93,745            |
| Provincial expenditures..... | —                 | 19,088,384        | 18,740,163        | 17,728,788        | 13,117,735        |
| Municipal expenditures.....  | —                 | 4,014,433         | 3,521,900         | 3,565,525         | 3,438,995         |

**Provincial Funded Debt Incurred for Highways.**—Table 35 shows the funded debts of the provinces outstanding at Dec. 31, 1932 and 1933, incurred for highway development. These amounts should not be confused with estimates of the total investment in highways. The cost of constructing a new road is considerably greater than that of putting a permanent surface on an old road; the latter has been the purpose of much of the provincial expenditure.



The maintenance expenditures by the Provincial Highway Departments during 1933 amounted to \$13,117,735, while the annual charges for highway debt were \$23,768,656, a total provincial charge of \$36,886,391. The provinces collected \$48,209,587 in licences, gasoline taxes, tolls, etc., in connection with highway traffic. While these left an apparent surplus of \$11,323,196, no provision was made for the cost of administering highway and motor vehicle departments, for traffic patrols, nor for adequate retiring charges on capital expenditures.

**35.—Provincial Government Funded Highway Debt and Annual Charges thereon, Dec. 31, 1932 and 1933.**

NOTE.—New Brunswick and Ontario as at Oct. 31, Manitoba and Saskatchewan as at April 30, 1933 and 1934. Other provinces as at Dec. 31.

| Province.                 | Amount.            |                    | Annual Interest and Sinking Fund. |                   |
|---------------------------|--------------------|--------------------|-----------------------------------|-------------------|
|                           | 1932.              | 1933.              | 1932.                             | 1933.             |
|                           | \$                 | \$                 | \$                                | \$                |
| Prince Edward Island..... | 1,126,120          | 1,393,000          | 84,937                            | 89,000            |
| Nova Scotia.....          | 31,372,123         | 33,725,821         | 1,356,585                         | 1,801,735         |
| New Brunswick.....        | 38,980,597         | 39,480,098         | 1,949,000                         | 1,974,000         |
| Quebec.....               | 48,627,000         | 57,877,001         | 1,910,685                         | 3,627,652         |
| Ontario.....              | 178,963,498        | 185,410,372        | 8,948,175                         | 9,270,519         |
| Manitoba.....             | 18,009,982         | 18,009,982         | 909,476                           | 933,537           |
| Saskatchewan.....         | 29,226,693         | 28,951,736         | 1,315,077                         | 1,555,777         |
| Alberta.....              | 30,245,232         | 32,820,997         | 1,890,326                         | 1,878,673         |
| British Columbia.....     | 40,397,127         | 40,440,652         | 2,486,930                         | 2,637,763         |
| <b>Totals.....</b>        | <b>416,948,372</b> | <b>438,118,659</b> | <b>20,851,191</b>                 | <b>23,768,656</b> |

## PART VI.—MOTOR VEHICLES.

The earliest motor vehicles were propelled by steam, the history of the gasoline motor car commencing with the successful construction of a gasoline engine by Daimler in 1884. Until 1900 France remained the headquarters of the industry, possessing in that year more than half of the 10,000 cars in operation in Europe, while in the United States the number of cars was only about 700. Shortly afterwards, the development of the Ford car resulted in a keen competition to bring motor cars within the reach of the average man, profits being secured from large production rather than high prices. Detroit became the centre of the automobile industry of the United States and the Canadian side of the Detroit river became the headquarters of the Canadian industry. As a consequence, the population of the border towns Windsor, Walkerville and Sandwich greatly increased between 1911 and 1921, while the town of Ford (now East Windsor), which had no existence in 1911, had 5,870 inhabitants in 1921 and 14,251 in 1931, when the aggregate for the "Border Cities" was 98,179. Problems of regional location have resulted, during more recent years, in a gradual shifting of the centre of the industry, and the Toronto and Oshawa districts now rival in importance the older established centre on the Detroit river.



Like many other inventions, the motor car commenced as a toy, then became a luxury of the rich, while now it ranks as a necessity of life to a large proportion of the population. In the past few years, the motor truck and the motor bus have assumed considerable economic importance, and are separately classified in Table 37.

Up to the present the motor vehicle has affected the passenger traffic of the steam and electric railways more than the freight. Thirteen inter-urban and ten urban electric railways have ceased operation since 1926, and passenger traffic on the smaller electric railways and on the steam railways has declined during the last decade instead of increasing with increased population. This diversion of passenger traffic has been effected largely by the private automobile, although the motor bus is rapidly becoming more important and is now operating between all large centres. The motor truck is also carrying an increasing amount of freight, although no statistics showing the tonnage handled are as yet available.

The automobile manufacturing industry in Canada has made very rapid growth since its beginning about the year 1905, two of its chief tendencies during the period having been a consolidation of smaller firms into large units and the adoption of large-scale methods of production, similar in many ways to those of the United States' industry. A brief statement of its history, with statistics of production, etc., is to be found on pp. 432-436 of the Canada Year Book, 1924, while more recent statistics of production will be found in the Manufactures chapter of this volume. (Chapter XIV.)

### Section 1.—Statistics of Motor Vehicle Operation.\*

**Registration.**—The increase in the use of motor vehicles in Canada has been very rapid. In 1904 the number of motor vehicles registered in Ontario was only 535. In 1907, 2,130 motor vehicles were registered in six provinces and in 1908, 3,033 in eight provinces, the motor car being at that time prohibited in Prince Edward Island. From these small beginnings Table 36 shows an increase to 1,232,486 motor vehicles by 1930. For the last three years decreases have been recorded. In Table 37 the numbers of motor vehicles registered in 1932 and 1933 are given by provinces, classified as passenger cars, commercial cars or trucks, motor buses and motor cycles.

The average population per vehicle registered was 9.9 in 1933. Canada ranked fourth in this respect, the United States being first with 5.3. On the basis of the total registration of 1,114,503, only three countries had larger numbers in 1932, *viz.*, United States, 23,827,290; France, 1,890,174; and Great Britain and Northern Ireland, 1,725,025.

\*Revised by G. S. Wrong, B.Sc., Chief of the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics. The subject is treated in greater detail in "Highways and Motor Vehicles in Canada", published annually by this Branch.

### 36.—Numbers of Motor Vehicles Registered in Canada, by Provinces, calendar years 1907-33.

NOTE.—The numbers of motor vehicles in Yukon are included in the totals for Canada, 1914-33.

| Year.                   | P.E.<br>Island. | Nova<br>Scotia. | New<br>Brunswick. | Quebec. | Ontario. | Mani-<br>toba. | Saskat-<br>chewan. | Al-<br>berta. | British<br>Colum-<br>bia. | Canada.   |
|-------------------------|-----------------|-----------------|-------------------|---------|----------|----------------|--------------------|---------------|---------------------------|-----------|
|                         | No.             | No.             | No.               | No.     | No.      | No.            | No.                | No.           | No.                       | No.       |
| 1907.....               | -               | 62              | -                 | 254     | 1,530    | -              | 54                 | 55            | 175                       | 2,130     |
| 1908.....               | -               | 65              | 104               | 296     | 1,754    | 412            | 74                 | 65            | 263                       | 3,033     |
| 1909.....               | -               | 69              | 167               | 485     | 2,452    | 662            | 149                | 275           | 504                       | 4,763     |
| 1910.....               | -               | 148             | 299               | 786     | 4,230    | 1,524          | 531                | 423           | 1,026                     | 8,967     |
| 1911.....               | -               | 228             | 483               | 1,878   | 11,339   | 2,436          | 1,304              | 1,631         | 2,220                     | 21,519    |
| 1912.....               | -               | 456             | 700               | 3,535   | 16,266   | 4,099          | 2,286              | 2,505         | 4,289                     | 34,136    |
| 1913.....               | 26              | 511             | 824               | 5,452   | 23,700   | 5,475          | 4,659              | 3,773         | 6,138                     | 50,558    |
| 1914.....               | 31              | 1,324           | 1,328             | 7,413   | 31,724   | 7,359          | 8,020              | 4,728         | 7,628                     | 69,598    |
| 1915.....               | 34              | 1,841           | 1,900             | 10,112  | 42,346   | 9,225          | 10,225             | 5,832         | 8,360                     | 89,944    |
| 1916.....               | 50              | 3,012           | 2,965             | 15,335  | 54,375   | 12,765         | 15,990             | 9,516         | 9,457                     | 123,464   |
| 1917.....               | 303             | 5,350           | 5,251             | 21,213  | 83,308   | 17,507         | 32,505             | 20,624        | 11,645                    | 197,799   |
| 1918.....               | 639             | 8,100           | 6,434             | 26,897  | 114,376  | 24,012         | 50,531             | 29,300        | 15,370                    | 275,746   |
| 1919.....               | 967             | 10,210          | 8,306             | 33,547  | 144,804  | 30,118         | 56,855             | 34,000        | 22,420                    | 341,316   |
| 1920.....               | 1,419           | 12,450          | 11,196            | 41,562  | 177,561  | 36,455         | 60,325             | 38,015        | 28,000                    | 407,064   |
| 1921.....               | 1,751           | 14,205          | 13,615            | 54,670  | 206,521  | 40,215         | 61,184             | 40,235        | 32,900                    | 465,378   |
| 1922.....               | 2,167           | 16,159          | 13,746            | 61,995  | 240,933  | 42,200         | 61,367             | 40,642        | 34,526                    | 513,821   |
| 1923.....               | 2,483           | 18,354          | 16,829            | 72,448  | 280,996  | 42,428         | 67,337             | 44,841        | 41,053                    | 586,850   |
| 1924.....               | 2,583           | 20,764          | 19,975            | 85,145  | 308,693  | 44,322         | 70,754             | 51,148        | 48,626                    | 652,121   |
| 1925.....               | 2,955           | 22,853          | 19,022            | 97,657  | 344,112  | 51,241         | 79,078             | 54,357        | 56,618                    | 728,005   |
| 1926.....               | 3,460           | 25,879          | 21,541            | 108,332 | 388,728  | 57,857         | 97,267             | 65,590        | 68,009                    | 836,794   |
| 1927.....               | 4,388           | 30,059          | 24,544            | 128,459 | 436,120  | 63,905         | 106,599            | 73,830        | 77,612                    | 945,672   |
| 1928 <sup>1</sup> ..... | 5,404           | 35,113          | 27,970            | 148,090 | 488,804  | 70,641         | 119,972            | 88,398        | 86,079                    | 1,070,664 |
| 1929 <sup>1</sup> ..... | 6,116           | 39,972          | 31,736            | 169,105 | 541,912  | 77,259         | 128,426            | 98,720        | 95,468                    | 1,188,926 |
| 1930 <sup>1</sup> ..... | 7,376           | 43,029          | 34,699            | 178,548 | 562,658  | 78,850         | 127,193            | 101,119       | 98,784                    | 1,232,486 |
| 1931 <sup>1</sup> ..... | 7,744           | 43,758          | 33,627            | 177,485 | 562,220  | 75,210         | 107,981            | 94,727        | 97,932                    | 1,200,907 |
| 1932.....               | 6,982           | 41,153          | 28,044            | 165,730 | 531,597  | 71,570         | 91,275             | 86,878        | 91,042                    | 1,114,503 |
| 1933.....               | 6,940           | 40,443          | 26,842            | 160,012 | 520,353  | 68,740         | 84,734             | 86,110        | 88,554                    | 1,082,957 |

<sup>1</sup>Revised figures.

In Table 37 the registration of motor vehicles in 1932 and 1933 is given according to the general type or purpose of the cars in use in each of the provinces.

### 37.—Types of Motor Vehicles Registered in Canada, by Provinces, calendar years 1932 and 1933.

| Province.                 | Passenger<br>Cars. <sup>1</sup> | Commercial<br>Cars or<br>Trucks. <sup>2</sup> | Motor<br>Buses. | Motor<br>Cycles. | Total. <sup>3</sup> |
|---------------------------|---------------------------------|-----------------------------------------------|-----------------|------------------|---------------------|
| 1932.                     | No.                             | No.                                           | No.             | No.              | No.                 |
| Prince Edward Island..... | 6,181                           | 768                                           | -               | -                | 6,949               |
| Nova Scotia.....          | 33,798                          | 6,958                                         | 4               | 29               | 41,153              |
| New Brunswick.....        | 24,030                          | 3,819                                         | 60              | 135              | 28,044              |
| Quebec.....               | 135,594                         | 27,411                                        | 500             | 2,225            | 165,730             |
| Ontario.....              | 462,923                         | 63,888                                        | 698             | 4,088            | 531,597             |
| Manitoba.....             | 61,420                          | 9,540                                         | 80              | 530              | 71,570              |
| Saskatchewan.....         | 75,685                          | 15,292                                        | 26              | 272              | 91,275              |
| Alberta.....              | 72,079                          | 14,293                                        | 97              | 409              | 86,878              |
| British Columbia.....     | 73,516                          | 15,933                                        | 209             | 1,384            | 91,042              |
| Yukon.....                | 129                             | 88                                            | 3               | 12               | 232                 |
| <b>Totals.....</b>        | <b>945,355</b>                  | <b>157,990</b>                                | <b>1,739</b>    | <b>9,419</b>     | <b>1,114,503</b>    |
| 1933.                     | No.                             | No.                                           | No.             | No.              | No.                 |
| Prince Edward Island..... | 6,155                           | 757                                           | 3               | 25               | 6,940               |
| Nova Scotia.....          | 33,133                          | 6,952                                         | 44              | 314              | 40,443              |
| New Brunswick.....        | 22,890                          | 3,748                                         | 58              | 146              | 26,842              |
| Quebec.....               | 130,658                         | 26,595                                        | 494             | 2,265            | 160,012             |
| Ontario.....              | 453,314                         | 61,549                                        | 1,120           | 4,370            | 520,353             |
| Manitoba.....             | 58,340                          | 9,790                                         | -               | 610              | 68,740              |
| Saskatchewan.....         | 69,503                          | 14,847                                        | 37              | 347              | 84,734              |
| Alberta.....              | 71,400                          | 14,174                                        | 69              | 467              | 86,110              |
| British Columbia.....     | 71,439                          | 15,441                                        | 228             | 1,446            | 88,554              |
| Yukon.....                | 121                             | 95                                            | 3               | 10               | 229                 |
| <b>Totals.....</b>        | <b>916,953</b>                  | <b>153,948</b>                                | <b>2,056</b>    | <b>10,000</b>    | <b>1,082,957</b>    |

<sup>1</sup>Includes taxicabs.

<sup>2</sup>Includes tractors, road machines, flushers, and municipal fire engines, etc., in Ontario and Quebec.

<sup>3</sup>Revised to exclude dealers' cars and include road tractors.

**Government Revenue.**—The taxation of motor vehicles, garages, chauffeurs, etc., is becoming a lucrative source of Provincial Government income. In every province the operation of automobiles and motor cycles is dependent on carrying licences duly issued by the various authorities, while similar licences permit the maintenance of garages and the driving of cars or trucks by hired chauffeurs. Perhaps the most recent form of levy on the use of motor vehicles is the gasoline tax, which has been assessed in all provinces since May 1, 1928. The following table shows the provincial revenue for the years 1932 and 1933, indicating, at the same time, the more important sources from which it is derived.

**38.—Provincial Revenues from the Taxation of the Distribution and Operation of Motor Vehicles, for the years 1932 and 1933.**

| Province.                  | Passenger Cars.   | Trucks.          | Motor Cycles. | Dealers' Licences. | Operators and Chauffeurs. | Mileage Tax on Motor Buses and Trucks. | Gasolene Tax.     | Total, including Miscellaneous Revenue. |
|----------------------------|-------------------|------------------|---------------|--------------------|---------------------------|----------------------------------------|-------------------|-----------------------------------------|
| 1932.                      | \$                | \$               | \$            | \$                 | \$                        | \$                                     | \$                | \$                                      |
| P. E. Island.....          | 104,368           | 14,196           | 164           | 1,085              | 1,348                     | —                                      | 134,398           | 256,854                                 |
| Nova Scotia.....           | 748,050           | 213,990          | 2,131         | 6,780              | 86,147                    | 1,086                                  | 957,781           | 2,064,606                               |
| New Brunswick.....         | 573,122           | 151,107          | —             | 4,651              | 75,325                    | 2,303                                  | 782,261           | 1,621,127                               |
| Quebec.....                | 2,672,312         | 1,337,907        | 7,625         | 19,488             | 866,286                   | 29,806                                 | 5,250,172         | 10,471,373                              |
| Ontario <sup>1</sup> ..... | 4,387,809         | 1,888,354        | 11,727        | 31,711             | 691,348                   | 202,445                                | 13,510,755        | 21,100,214                              |
| Manitoba.....              | 712,370           | 119,190          | 2,160         | —                  | 100,730                   | 15,200                                 | 1,514,260         | 2,479,050                               |
| Saskatchewan.....          | 1,144,831         | 267,613          | 1,480         | 13,385             | 59,423                    | 711                                    | 1,328,951         | 2,847,038                               |
| Alberta.....               | 1,290,828         | 413,705          | 1,907         | 19,575             | 15,808                    | 13,044                                 | 1,551,227         | 3,334,854                               |
| British Columbia.....      | 1,405,735         | 382,514          | 6,708         | 12,524             | 136,760                   | —                                      | 2,053,511         | 4,032,039                               |
| Yukon <sup>2</sup> .....   | 1,389             | 738              | 48            | —                  | —                         | —                                      | —                 | 2,432                                   |
| <b>Totals.....</b>         | <b>13,040,614</b> | <b>4,789,014</b> | <b>33,350</b> | <b>109,199</b>     | <b>2,033,175</b>          | <b>264,595</b>                         | <b>27,083,316</b> | <b>48,209,597</b>                       |
| 1933.                      |                   |                  |               |                    |                           |                                        |                   |                                         |
| P. E. Island.....          | 76,076            | 13,418           | 144           | 570                | 3,717                     | —                                      | 166,831           | 262,113                                 |
| Nova Scotia.....           | 710,245           | 211,741          | 5,413         | 6,639              | 82,264                    | 1,008                                  | 933,571           | 1,989,511                               |
| New Brunswick.....         | 506,023           | 145,739          | —             | 3,006              | 70,069                    | 1,290                                  | 865,790           | 1,624,187                               |
| Quebec.....                | 2,537,743         | 1,329,750        | 8,607         | 2,990              | 902,820                   | 22,947                                 | 4,952,764         | 10,044,671                              |
| Ontario <sup>1</sup> ..... | 4,364,899         | 1,914,684        | 12,251        | 24,954             | 682,408                   | 195,078                                | 12,852,577        | 20,493,342                              |
| Manitoba.....              | 637,447           | 130,184          | 2,394         | 6,300              | 88,355                    | —                                      | 1,643,600         | 2,526,836                               |
| Saskatchewan.....          | 1,077,423         | 263,029          | 1,902         | 10,395             | 60,399                    | 3,011                                  | 1,289,989         | 2,770,055                               |
| Alberta.....               | 1,142,557         | 283,467          | 2,104         | 14,570             | 15,528                    | 128,344                                | 1,739,240         | 3,348,981                               |
| British Columbia.....      | 1,388,763         | 373,476          | 7,909         | 10,895             | 137,607                   | 11,065                                 | 2,023,403         | 3,982,036                               |
| Yukon <sup>2</sup> .....   | 1,180             | 710              | 30            | —                  | —                         | —                                      | —                 | 2,425                                   |
| <b>Totals.....</b>         | <b>12,442,356</b> | <b>4,666,198</b> | <b>39,854</b> | <b>80,319</b>      | <b>2,043,167</b>          | <b>362,743</b>                         | <b>26,467,765</b> | <b>47,044,157</b>                       |

<sup>1</sup>Revenue figures for Ontario are for fiscal year ended Oct. 31. <sup>2</sup>No gasoline tax.

**Apparent Consumption of Automobiles in Canada.**—The apparent consumption of motor cars in Canada in any year may be computed by deducting the number of cars exported from the sum of the production and imports. In 1933 production totalled 65,852 cars and imports amounted to 1,781, making an available supply of 67,633 cars, but as exports aggregated 20,900 units, the apparent consumption was 46,733 cars.

Table 39 shows the statistics worked up on this basis for the years 1917 to 1933. Prior to 1925 the figures of apparent consumption do not show a pronounced trend but between 1925 and 1929 they increased substantially. From 1929 to 1932 the decrease was rapid and continuous but was practically halted in 1933, in which year production showed some improvement but mainly on account of the export demand.

## 39.—Apparent Consumption of Automobiles in Canada, 1917-33.

| Year.     | Production. | Imports. | Total Supply. | Exports. | Re-Exports. | Total Exports. | Apparent Consumption. |
|-----------|-------------|----------|---------------|----------|-------------|----------------|-----------------------|
|           | No.         | No.      | No.           | No.      | No.         | No.            | No.                   |
| 1917..... | 93,810      | 16,656   | 110,466       | 9,492    | 567         | 10,059         | 100,407               |
| 1918..... | 82,408      | 10,812   | 93,220        | 10,361   | 322         | 10,683         | 82,537                |
| 1919..... | 87,835      | 11,750   | 99,585        | 22,949   | 305         | 23,254         | 76,331                |
| 1920..... | 94,144      | 9,145    | 103,289       | 23,012   | 542         | 23,554         | 79,735                |
| 1921..... | 66,246      | 7,270    | 73,516        | 10,726   | 254         | 10,980         | 62,536                |
| 1922..... | 101,007     | 11,591   | 112,598       | 37,958   | 268         | 38,226         | 74,372                |
| 1923..... | 147,202     | 11,822   | 159,024       | 69,920   | 438         | 70,358         | 88,666                |
| 1924..... | 132,580     | 9,301    | 141,881       | 56,655   | 326         | 56,981         | 84,900                |
| 1925..... | 161,970     | 14,632   | 176,602       | 74,151   | 341         | 74,492         | 102,110               |
| 1926..... | 204,727     | 28,544   | 233,271       | 74,324   | 370         | 74,694         | 158,577               |
| 1927..... | 179,054     | 36,630   | 215,684       | 57,414   | 438         | 57,852         | 157,832               |
| 1928..... | 242,054     | 47,408   | 289,462       | 79,388   | 467         | 79,855         | 209,607               |
| 1929..... | 262,625     | 44,724   | 307,349       | 101,711  | 671         | 102,382        | 204,967               |
| 1930..... | 153,372     | 23,233   | 176,605       | 44,553   | 818         | 45,371         | 131,234               |
| 1931..... | 82,559      | 8,738    | 91,297        | 13,813   | 726         | 14,539         | 76,759                |
| 1932..... | 60,789      | 1,449    | 62,238        | 12,534   | 485         | 13,022         | 49,216                |
| 1933..... | 65,852      | 1,781    | 67,633        | 20,403   | 497         | 20,900         | 46,733                |

## Section 2.—Motor Vehicle Acts and Regulations.\*

In all provinces a motor vehicle must be registered and each person who operates a car must be licensed as a chauffeur, an operator, or a beginner. The following is a brief synopsis of the regulations in force in each province.

**Prince Edward Island.**—Under the Highway Traffic Act, 1930, and Regulations, all cars must be registered in the office of the Provincial Secretary. In addition to a registration fee of \$2.50 for cars not previously registered in the province and a marker fee of \$1, an annual tax of 50 cents per 100 pounds weight is payable on Mar. 1, but is not required of non-residents if the Province or State of origin grants exemptions to Prince Edward Island privately-owned passenger motor vehicles. Every car must have a lock or other device to prevent it from being operated when left unattended. The speed limits are: in cities, towns and villages 15 miles an hour; on approaches to steep descents, bridges, or highway crossings 10 miles an hour; on roads outside cities or incorporated towns on which the driver has not a clear view for at least one hundred yards free from turns and intersections 15 miles an hour; and in other places a speed reasonable and proper.

**Nova Scotia.**—The Motor Vehicle Act requires cars to be registered by the Motor Vehicle Branch, Department of Highways, which issues permits renewable annually on Jan. 1, but usually extended to Mar. 31. Cars belonging to persons residing outside of Nova Scotia need not be registered, if registered where the owners reside and operated for private use. This privilege is given for not more than three months in each year. If owners come into the province to reside permanently or to carry on business, they must register. Every person who operates a motor vehicle must be licensed as a chauffeur, an operator, or a beginner. Motor vehicles must be equipped as provided in the Uniform Vehicle Code. There is no set speed limit. The rate of speed must be reasonable and proper, and 20 miles per hour is *prima facie* reasonable and proper in a residential district, at intersections, passing schools, etc., and 40 miles per hour is *prima facie* reasonable and proper in open country. Commercial motor vehicles having a gross weight in excess of 4,000 lb., are limited to a maximum speed of 25 miles per hour.

\*The information in this Section has been revised by the officials in charge of the administration of Motor Vehicle Acts and Regulations in the different provinces.



**New Brunswick.**—Under the Motor Vehicle Act, 1934, the registering and licensing authority is the Motor Vehicle Branch, Department of Public Works. An operator of a motor vehicle must carry a driver's licence. Cars must be registered each year and, besides the registration fee, an annual fee is payable on Jan. 1. A non-resident tourist may not, without registering in New Brunswick, operate a car registered in another Province or a State during more than 90 days in any year or such shorter time as is reciprocally granted in the Province or State in which the tourist's vehicle is registered. The speed of a motor vehicle must not be greater than is reasonable or proper having due regard to the traffic and use of the highway or such as to endanger life or property. Commercial vehicles must not exceed 30 miles per hour. Penalties may be suspension of driver's licence and fine or imprisonment.

**Quebec.**—The law regarding motor vehicles is contained in the Quebec Revised Statutes, 1925, c. 35. Cars must be registered in the Office of the Provincial Treasurer and re-registered annually on Mar. 1. Certain government and municipal cars and farm tractors are given free registration, while exemptions are made in the case of pleasure cars registered in other provinces and certain commercial vehicles, but only in cases specified in Article 10 of the Act. Cars must have mufflers and, when left unattended, must be locked in such a way as to prevent operation. The speed limits are: in cities, towns and villages, 20 miles an hour; on highways where the land is closely built up, 20 miles an hour; and in open country, 30 miles an hour. Motor vehicles must be stopped before proceeding over a railway crossing. Motors must stop for street cars which are standing to take on or discharge passengers, and must reduce the speed to 16 miles an hour when meeting another vehicle. These rates have reference to pleasure cars only. In the case of a commercial vehicle having non-pneumatic tires, a speed of 8 miles an hour when loaded and 10 miles an hour when unloaded is allowed. When equipped with pneumatic tires the corresponding rates are 12 and 15 miles an hour. Motor buses are allowed a speed of 30 miles an hour in open country.

**Ontario.**—In this province the Highway Traffic Act, under the administration of the Motor Vehicles Branch of the Department of Highways, regulates the operation of motor vehicles on the highways. Motor vehicle permits and drivers' licences are issued for the calendar year. Vehicles owned by residents of other provinces who do not reside or carry on business in Ontario for more than three consecutive months in each year may be operated in Ontario without Ontario registration plates. Passenger cars registered in the United States may be operated in Ontario without Ontario plates for thirty days in any one year. The speed limit in cities, towns and villages is 20 miles an hour; in open country, 35 miles an hour. At intersections, level railway crossings and where the view of the driver is obscured, the speed allowed is 10 miles within and 15 miles outside of cities, towns and villages. Vehicles must not pass street cars which are stationary for the purpose of taking on or discharging passengers. At intersections the motor vehicle on the right has the right of way and before entering or crossing a through highway a vehicle must be brought to a full stop. A motor vehicle must be equipped with non-glare headlights, muffler, windshield wiper and mirror. Under Part XIII of the Act a person convicted of certain serious offences in connection with the operation of motor vehicles or a person against whom an unsatisfied judgment is outstanding is required to file proof of his financial responsibility. All accidents resulting in personal injury, or property damage apparently exceeding \$50, must be reported to the nearest provincial or municipal police officer.

**Manitoba.**—Under the Highway Traffic Act, 1930, cars must be registered in the office of the Municipal Commissioner, and registration is renewable annually on Jan. 1. On April 1,  $\frac{2}{3}$  of the annual fee and on Aug. 1,  $\frac{1}{2}$  of the annual fee is payable. All drivers must be licensed. No person, not a resident of the province, may operate without a licence for a period exceeding 30 days from the date of entry, unless the Province or State in which he resides gives reciprocity in this respect. Penalties for driving a car while intoxicated include imprisonment, suspension of driver's licence and impounding of the car. No person may operate a motor vehicle upon any highway or street at a greater speed than is reasonable and proper, having regard to the condition of the highway and the traffic. The onus of proof is on the motorist. No ray of light from any headlight may be thrown in a horizontal direction at a greater height from the ground than 42 inches in front of the motor vehicle when travelling on the highways. The use of searchlights and glare headlights is absolutely forbidden on highways. Number plates must be carried on the front and rear of the vehicles so as to be plainly visible. In the event of an accident the driver involved must render every help possible, and give his name and address to the police officer or, if no officer is at hand, report to the nearest police station or officer. Failure to comply may involve a fine of \$50 or 30 days imprisonment.

**Saskatchewan.**—The licensing authority under the Vehicles Act is the Minister of Highways. Licences expire annually on Dec. 31, and for private vehicles are computed on the wheel base, the minimum fee being \$10, the maximum \$32.50. The licence fee in respect of cars registered on and after Aug. 1 is one-half the annual fee. All motor vehicles except motor cycles must expose two number plates. The registration fee for a motor cycle is \$6. The fee for motor trucks is computed on the gross weight. The owner of every truck to be operated for gain before securing a licence must obtain a permit from the Public Utility Board. Besides two licence plates, he receives two weight plates, embossed with the gross weight for which the licence fee has been paid.

The fee for a chauffeur's licence is \$5. The fee for livery privileges is \$10 more than the fee paid for private licence for the vehicle to be registered. Permits to operate for gain must be obtained from the Public Utility Board. Every driver of a motor vehicle not in possession of a chauffeur's licence must secure an operator's licence.

A non-resident may use his motor vehicle for not more than three months in any year, but a non-resident operating a truck for gain must comply with the Public Utility Board requirements. Cities, towns and villages have authority to regulate speed limits within their boundaries. A loaded truck shall not be driven at more than 25 miles per hour, nor an unloaded truck at more than 35 miles per hour, while no motor vehicle may be driven at more than 35 miles per hour when passing any motor or other vehicle going in the opposite direction. Otherwise, speed is governed by the amount of traffic, the nature, condition and use of the highways. No motor vehicle and its load may have a greater width than 96 inches, while no vehicle may have a length of more than 33 feet, and no combination of vehicles coupled together may have a length of more than 85 feet. The maximum height of a vehicle including its load is 14 feet and the maximum weight of any vehicle and its load must not exceed 20,000 lb. Motor vehicles must stop for street cars which are taking on or discharging passengers. Should a driver on leaving a stopping place in a city or town desire to turn, he may do so only at an intersection of the public highway.

**Alberta.**—The law relating to motor vehicles is contained in the Vehicles and Highway Traffic Act, 1924. The speed limits are: 20 miles an hour in cities, towns and villages; 10 miles an hour at street crossings and bridges; and 30 miles an hour outside cities, towns and villages. A motor car may not pass a street car which has stopped for passengers to get on or off. A resident of any other province of Canada, entering Alberta for pleasure touring for a period not greater than six months, is required to have complied with the motor-vehicle laws of his own province, and on entering Alberta to register with the Provincial Police. Residents of the United States entering Alberta for touring purposes may carry with them their customs certificates in lieu of registration. The Provincial Secretary may revoke or suspend the licence of any chauffeur convicted under the provisions of the Liquor Act of selling or having for sale intoxicating liquor. Provision is made for the impounding of cars where the owners or drivers are convicted of driving cars while intoxicated or convicted under other sections of the Act relating to speeding and juvenile driving. There is provision against the carrying of loaded weapons in an automobile—a preventive measure against accidents during hunting trips.

**British Columbia.**—Under the Motor Vehicle Act and amending Acts, all motor vehicles are to be registered with the Commissioner of Provincial Police. Trailers must also be licensed. Motor vehicles registered outside of the province may be used for touring purposes for any period not greater than that allowed by owner's place of residence to touring motor-vehicles registered in British Columbia and in no case longer than six months providing that their owners obtain non-resident touring permits or carry the customs permits in the case of residents of the United States. All persons driving motor vehicles must carry current driver's licences.

Motor vehicles are to be driven in a careful and prudent manner at all times. The onus is on the driver for driving to the common danger if driving at a greater speed than 20 miles per hour in any city, town or village, or 30 miles per hour outside cities, towns or villages, or greater than the maximum rate of speed stated on signs erected on certain portions of the highway. A motor vehicle may not pass a standing street car at more than 5 miles per hour, if such street car is not taking on or discharging passengers, and must stop at least 10 feet from the passenger exit if such street car is taking on or discharging passengers (in cities where safety zones are provided, motor vehicles are allowed to pass between safety zone and curb at a rate as set by by-law). A motor vehicle must not exceed a speed of 15 miles per hour when passing schoolhouses between the hours of 8 a.m. and 5 p.m. of any day on which school is regularly held, or public playgrounds for children between dawn and dusk. Accidents in which death or personal injury has occurred, or in which loss or injury to property apparently exceeding \$25 is sustained, must be reported to the police.

No person shall ride as a passenger on a motor cycle in front of the person driving or operating the motor cycle. Provision is made for the surrender of drivers' licences upon conviction for an infraction of the Act or Regulations or of Section 285 of the Criminal Code; upon arrest or indictment for manslaughter a driver's licence is suspended. Drivers' and owners' licences of all persons convicted for certain serious offences in connection with the operation of motor vehicles, as well as all persons against whom an unsatisfied judgment for bodily injury or property damage in excess of \$100 is outstanding, are suspended until such time as proof of financial responsibility is furnished by them.



**Yukon.**—The Motor Vehicle Ordinance, No. 14, 1914, with amendments, requires all cars to be registered in the office of the Territorial Secretary, who issues certificates renewable annually on April 1. A non-resident may operate an unregistered motor for not more than 90 days. In cities, towns and villages the speed limit is 15 miles an hour, and 10 miles an hour at street intersections.

## PART VII.—AIR NAVIGATION.\*

During 1933 civil aviation was well maintained. Aircraft are a ready means of obtaining accurate information of conditions in remote and unsettled parts, and provide easy access thereto. Their use in developing and conserving natural resources has increased every year. Air-mail and air-transport lines are in operation in many parts of the Dominion.

Civil aviation in Canada is divided into two classes: (1) civil operations, carried out for other Government Departments under the Royal Canadian Air Force; (2) commercial aviation, under the regulation of the Controller of Civil Aviation. Both are under the Department of National Defence.

**Civil Government Air Operations.**—This branch carried out flying on forest fire patrols, fire suppression, oblique and vertical photography for surveys, transportation, etc., for different Government Departments in various parts of the country.

**Provincial Operations.**—The Ontario Provincial Air Service owns and operates 19 aircraft on forest fire protection, transportation, air photography and sketching in northern Ontario. Operations covered an area of about 800 miles from east to west, and 400 miles from north to south. A total of 8,731 hours was flown during 1933, as compared with 9,968 hours in 1932. The Manitoba Government Air Service operated 5 aircraft on forest protection in the province for the Forestry Branch; a total of 770 hours was flown on this work. The Saskatchewan Government Air Service operated 4 aircraft on forest protection in the province for the Department of Natural Resources; a total of 93 hours was flown on this work. British Columbia and Quebec contracted with commercial aircraft operators for flying required.

**Commercial Aviation.**—During 1933 there were 90 commercial aircraft operators in Canada. Their activities included forest fire patrols, timber cruising, air photography, transportation of passengers, express and mail, instruction, advertising, short passenger flights, etc., in various parts of the country.

**Air-Mail Services.**—Regular air-mail services were established in December, 1927. During 1933 commercial firms operated the following air-mail routes under Post Office Department contracts: *Winter Services.*—Leamington-Pelee Island; Quebec-Seven Islands-Anticosti; Moncton-Magdalen Islands; Moncton-Charlottetown. *Summer Services.*—Rimouski-Montreal; Vancouver-Victoria. *Yearly Services.*—Montreal-Albany; Sioux Lookout-Red Lake area; Amos-Siscoe-Pascallis; McMurray-Aklavik; Winnipeg-Pembina; Peace River-North Vermilion; Lac du Bonnet-Bissett; Prince Albert-lac La Rouge; Big River-Isle à la Crosse. Mail to the extent of 539,358 lb. was carried under contract, without loss or damage, during 1933. (See p. 745.)

\*Revised under the direction of J. A. Wilson, Esq., Controller of Civil Aviation, by A. E. Heatley, Department of National Defence.



**Encouragement of Aviation.**—To encourage a more widespread interest and knowledge of aviation, the Department of National Defence, since 1928, has assisted by issuing two light aeroplanes and making grants to each of the twenty-three flying clubs in the following localities: Halifax, Cape Breton, Saint John, Montreal, McGill University, Brant and Norfolk, Fort William, Hamilton, Kingston, London, Ottawa, St. Catharines, Toronto, Border Cities, Kitchener, Brandon, Winnipeg, Moose Jaw, Regina, Saskatoon, Calgary, Edmonton, Vancouver. The total membership at present is 2,075. A total of 9,972 hours was flown. 120 members obtained private pilots' licences, and 26 members obtained commercial pilots' licences during 1933. Many aerodromes have been established through this movement.

A large air terminal has been built at St. Hubert, 7 miles south of Montreal. A mooring tower for airships and an aerodrome have been constructed there, and immigration, customs and postal facilities are available. A terminal aerodrome has also been constructed at Rimouski for the despatch and reception of trans-Atlantic mails by air.

**Manufacture of Aircraft.**—An aircraft industry, to construct in Canada the aircraft and equipment required for aviation, is essential to the sound development of flying. Canadian Vickers, the pioneer firm in Canada, have produced several original types specially suited to operation in Canada. Several aircraft constructors from England and the United States have formed branches in Canada for the assembly and service of their products. The De Havilland Aircraft of Canada, Ltd., established a plant in Toronto; the Curtiss-Reid Aircraft Co. established a factory at Cartierville, Que.; the Fairchild Aircraft Ltd., at Longueuil, Que.; the Boeing Aircraft of Canada, Ltd., at Vancouver; and the Ottawa Car Manufacturing Co., one at Ottawa for A. V. Roe aircraft. Aero engine factories are established for construction or assembly and service of their products as follows: Armstrong-Siddeley Motors, Ltd., at Ottawa; Aero Engines of Canada, Ltd., at Montreal, for "Wright" and "Bristol" engines; Canadian Pratt and Whitney Aircraft Co., Ltd., at Longueuil, Que.

#### 40.—Statistical Summary of Civil Aviation in Canada, 1929-34.

NOTE.—Figures for 1921-23 may be found at p. 616 of the 1924 edition of the Year Book and for 1924-27 at p. 679 of the 1929 edition.

| Item.                                                     | 1929.      | 1930.      | 1931.      | 1932.     | 1933.     | 1934.      |
|-----------------------------------------------------------|------------|------------|------------|-----------|-----------|------------|
| General Analysis.                                         | No.        | No.        | No.        | No.       | No.       | No.        |
| Firms manufacturing aircraft.....                         | 6          | 7          | 7          | 7         | 7         | 6          |
| Firms chiefly operating aircraft.....                     | 81         | 100        | 100        | 73        | 87        | 125        |
| Firms using aircraft as auxiliary service.                | 4          | 4          | 4          | 4         | 3         | 3          |
| Aircraft flights made.....                                | 144,143    | 156,174    | 144,080    | 102,219   | 106,252   | 128,031    |
| Aircraft hours flown.....                                 | 79,786     | 92,993     | 73,645     | 56,170    | 53,299    | 75,871     |
| Approximate aeroplane mileage.....                        | 4,083,321  | 5,222,635  | 5,280,958  | 2,786,609 | 2,733,642 | 3,430,475  |
| Approximate float seaplane mileage.....                   | 1,768,738  | 2,024,219  | 1,553,721  | 1,503,157 | 1,641,911 |            |
| Approximate boat seaplane mileage.....                    | 426,064    | 286,628    | 180,620    | 198,792   | 99,433    | 3,067,162  |
| Approximate amphibian mileage.....                        | 5,956      | 13,938     | 30,950     | 80,573    | 63,319    |            |
| Total aircraft mileage.....                               | 6,284,079  | 7,547,420  | 7,046,276  | 4,569,131 | 4,538,315 | 6,497,637  |
| Average flight duration (minutes).....                    | 33         | 36         | 30         | 33        | 30        | 36         |
| Pilots carried.....                                       | 144,143    | 156,574    | 144,080    | 102,219   | 106,252   | 128,031    |
| Passengers and crew carried.....                          | 124,751    | 124,875    | 100,128    | 76,800    | 85,006    | 105,306    |
| Total personnel carried.....                              | 268,894    | 281,449    | 244,208    | 179,019   | 191,258   | 233,337    |
| Pilots carried one mile (pilot-miles).....                | 6,284,079  | 7,547,420  | 7,046,276  | 4,569,131 | 4,538,315 | 6,497,637  |
| Passengers and crew carried 1 mile (passenger-miles)..... | 6,114,997  | 5,408,676  | 4,073,552  | 2,869,799 | 3,816,862 | 6,266,475  |
| Total personnel carried 1 mile (personnel-miles).....     | 12,399,076 | 12,956,096 | 11,119,828 | 7,438,930 | 8,355,177 | 12,764,112 |
| Total freight or express carried (lb.).....               | 3,903,908  | 1,759,259  | 2,372,467  | 3,129,974 | 4,205,901 | 14,441,179 |
| Total mail carried (lb.).....                             | 430,636    | 474,199    | 470,461    | 413,687   | 539,358   | 625,040    |

## 40.—Statistical Summary of Civil Aviation in Canada, 1929-34—concluded.

| Item.                                       | 1929. | 1930. | 1931. | 1932. | 1933. | 1934. |
|---------------------------------------------|-------|-------|-------|-------|-------|-------|
| <b>Licensed Civil Air Harbours.</b>         | No.   | No.   | No.   | No.   | No.   | No.   |
| Total air harbours (all types).....         | 77    | 77    | 83    | 83    | 90    | 101   |
| <b>Licensed Civil Aircraft.<sup>1</sup></b> |       |       |       |       |       |       |
| Aeroplanes (single-engined).....            | 400   | 499   | 466   | 416   | 331   | —     |
| Aeroplanes (twin-engined).....              | —     | —     | —     | —     | 1     | —     |
| Aeroplanes (triple-engined).....            | 2     | 2     | 1     | 1     | —     | —     |
| Float seaplanes (single-engined).....       | 400   | 499   | 466   | 416   | 331   | —     |
| Boat seaplanes (single-engined).....        | 37    | 21    | 23    | 26    | 12    | —     |
| Amphibians (single-engined).....            | 6     | 5     | 5     | 2     | 1     | —     |
| Total aircraft (all types).....             | 445   | 527   | 495   | 445   | 345   | 368   |
| <b>Licensed Civil Air Personnel.</b>        |       |       |       |       |       |       |
| Pilots only (flying machines).....          | 349   | 408   | 658   | 775   | 878   | 684   |
| Pilot-air engineers.....                    | 96    | 131   | 138   | 133   | 133   | 148   |
| Air engineers only (flying machines).....   | 212   | 241   | 208   | 208   | 281   | 313   |
| Total licensed personnel.....               | 657   | 780   | 866   | 983   | 1,159 | 997   |
| Unlicensed air mechanics employed.....      | 150   | 164   | 140   | 52    | 60    | 61    |

<sup>1</sup>These figures show duplication, since practically all aeroplanes are convertible to float seaplanes.

## PART VIII.—CANALS.\*

Before the period of extensive railway construction which commenced for Canada in the 1850's, the water routes, more especially the St. Lawrence, the Great Lakes and the Ottawa, were the chief avenues of transportation. These routes were interrupted at certain points, necessitating portages, and to eliminate the toil of unloading, transporting and reloading at the portages the canals of Canada were constructed.

The earliest mention of canals in Canada is in connection with the Lachine canal, begun by early French settlers in 1700, but only after the conquest of Canada by the British were improvements of the main water routes made, and in the early part of the 19th century increased internal and foreign trade and the introduction of steam navigation resulted in more attention being given to this work. Although the canals were constructed primarily for military purposes they soon became essential to the commercial life of the country.

## Section 1.—Canal Systems.

There are in Canada seven canal systems under the control of the Dominion Government in connection with navigable lakes and rivers. They consist of the canals: (1) between Port Arthur or Fort William and Montreal; (2) from Montreal to the International Boundary near lake Champlain; (3) from Montreal to Ottawa; (4) from Ottawa to Kingston and Perth; (5) from Trenton, lake Ontario, to lake Huron (not completed); (6) from the Atlantic ocean to Bras d'Or lakes, Cape Breton; and (7) from Winnipeg to lake Winnipeg. By means of these canals a total waterway of 1,846 miles has been opened to navigation, the actual mileage of canals being 509.40.

\*Revised by G. S. Wrong, B.Sc., Chief of the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics. This Branch publishes an annual report on "Canal Statistics".

A detailed description of the individual canals was given on pp. 626-629 of the 1926 Year Book. Summary statistics of their length and lock dimensions are given in Table 41.

41.—Canals of Canada, Length and Lock Dimensions, 1935.

| Name.                     | Location.                                                   | Length. | Locks. |                     |        |                    |
|---------------------------|-------------------------------------------------------------|---------|--------|---------------------|--------|--------------------|
|                           |                                                             |         | No.    | Minimum Dimensions. |        |                    |
|                           |                                                             |         |        | Length.             | Width. | Depth.             |
|                           |                                                             | Miles.  |        | ft.                 | ft.    | ft.                |
| St. Lawrence—             |                                                             |         |        |                     |        |                    |
| Lachine.....              | Montreal to Lachine.....                                    | 8.74    | 5      | 270                 | 45     | 14 <sup>1</sup>    |
| Soulanges.....            | Cascades Point to Coteau Landing..                          | 14.67   | 5      | 280                 | 45     | 15 <sup>1</sup>    |
| Cornwall.....             | Cornwall to Dickinson's Landing....                         | 11.00   | 6      | 270                 | 43-67  | 14 <sup>1</sup>    |
| Farran's.....             | Farran's Point rapids.....                                  | 1.28    | 1      | 800                 | 50     | 16 <sup>1</sup>    |
| Rapide Plat.....          | Rapide Plat to Morrisburg.....                              | 3.89    | 2      | 270                 | 45     | 14 <sup>1</sup>    |
| Galops.....               | Iroquois to Cardinal.....                                   | 7.36    | 3      | 270                 | 45     | 14 <sup>1</sup>    |
| Welland Ship.....         | Port Weller, lake Ontario, to Port Colborne, lake Erie..... | 27.60   | 8      | 859                 | 80     | 30 <sup>2</sup>    |
| Sault Ste. Marie.....     | St. Mary's rapids, 47 miles west of lake Huron.....         | 1.38    | 1      | 900                 | 60     | 18-25 <sup>1</sup> |
| Richelieu River—          |                                                             |         |        |                     |        |                    |
| St. Ours Lock.....        | St. Ours, Que.....                                          | 0.12    | 1      | 339                 | 45     | 12 <sup>1</sup>    |
| Chambly.....              | Chambly to St. Johns, Que.....                              | 11.76   | 9      | 120-5               | 23-25  | 6-5                |
| Ottawa and Rideau Rivers— |                                                             |         |        |                     |        |                    |
| Ste. Anne Lock.....       | Junction of St. Lawrence and Ottawa rivers.....             | 0.12    | 1      | 200                 | 45     | 9                  |
| Carillon.....             | Carillon rapids, Ottawa river.....                          | 0.94    | 2      | 200                 | 45     | 9                  |
| Grenville.....            | Long Sault rapids, Ottawa river.....                        | 5.94    | 5      | 200                 | 45     | 9-5                |
| Rideau.....               | Ottawa to Kingston.....                                     | 126.25  | 47     | 134                 | 33     | 5                  |
|                           | Rideau lake to Perth (Tay branch). ..                       | 7.25    | 2      | 134                 | 33     | 5                  |
| Miscellaneous—            |                                                             |         |        |                     |        |                    |
| Trent.....                | Trenton to Peterborough lock, Peterborough.....             | 88.74   | 18     | 175                 | 33     | 8-33               |
|                           | Peterborough lock to Swift rapids..                         | 135.71  | 24     | 134                 | 33     | 6                  |
|                           | Swift rapids to Port Severn.....                            | 16.00   | 1      | 100                 | 25     | 4                  |
|                           | Port Severn lock.....                                       | —       | 1      | 100                 | 25     | 6                  |
|                           | Sturgeon lake to Lindsay (Scugog branch).....               | 8.35    | 1      | 142                 | 33     | 6                  |
|                           | Lindsay to Port Perry (Scugog branch).....                  | 26.65   | —      | —                   | —      | 4-5                |
| Murray.....               | Isthmus of Murray—bay of Quinte..                           | 5.15    | —      | —                   | —      | 11 <sup>2</sup>    |
| St. Peters.....           | St. Peters bay to Bras d'Or lakes, Cape Breton, N.S.....    | 0.50    | 1      | 300                 | 48     | 18                 |
| St. Andrews.....          | Red river, 15 miles north of Winnipeg                       | —       | 1      | 215                 | 45     | 17                 |

<sup>1</sup>Navigable depths are occasionally less at times of extremely low water.

<sup>2</sup>Minimum depth between locks 25 feet.

<sup>3</sup>With lake Ontario at elevation 244 feet above sea-level.

**Government Expenditures on Canals.**—Tables 42 and 43 deal with the expenditures of the Dominion Government on the construction and maintenance of canals. The principal source of revenue is rentals for water for power purposes. All canals, it may be added, have since 1904 been free of tolls to vessels applying for the privilege of locking facilities. The total capital cost of Canadian canals since their construction was begun is set at \$249,932,926. The heavy capital expenditures in recent years are due to the construction of the Welland Ship Canal, on which \$131,065,440 had been spent up to Mar. 31, 1934. The lock gates were first opened on April 21, 1930, and upper lake vessels with certain restrictions were allowed through. In 1932 the largest of the lake vessels (633 feet long) used the canal and draughts up to 22 feet were accommodated.

### 42.—Expenditures and Revenues of Canals for Period Before Confederation, 1868-1910, and fiscal years ended Mar. 31, 1911-34.

NOTE.—For the individual years 1868 to 1910, see Canada Year Book, 1916-17, p. 462.

| Fiscal Year.                   | Expenditure Chargeable— |                            |                                                |                          |            | Total Expendi-<br>ture. | Total<br>Revenue.    |
|--------------------------------|-------------------------|----------------------------|------------------------------------------------|--------------------------|------------|-------------------------|----------------------|
|                                | to<br>Capital.          | to<br>Income. <sup>1</sup> | Staff and<br>Repairs,<br>Canals in<br>general. | to Revenue. <sup>1</sup> |            |                         |                      |
|                                |                         |                            |                                                | Staff.                   | Repairs.   |                         |                      |
| Before Confed-<br>eration..... | \$ -                    | \$ -                       | \$ -                                           | \$ -                     | \$ -       | \$ -                    | \$ -                 |
| 1868-1910.....                 | 21,152,933              | 98,378                     | -                                              | -                        | -          | 21,251,311              | -                    |
| 1911.....                      | 76,388,584              | 6,465,248                  | 1,594,241                                      | 11,695,311               | 9,488,903  | 105,632,287             | 14,156,391           |
| 1912.....                      | 2,349,474               | 440,270                    | 103,398                                        | 511,306                  | 471,530    | 3,875,978               | 221,138              |
| 1913.....                      | 2,560,939               | 442,012                    | 109,651                                        | 585,900                  | 555,710    | 4,254,212               | 263,717              |
| 1914.....                      | 2,259,257               | 331,987                    | 121,371                                        | 605,248                  | 535,136    | 3,852,999               | 307,568              |
| 1915.....                      | 2,829,661               | 389,285                    | 147,729                                        | 642,845                  | 574,039    | 4,583,559               | 380,188              |
| 1916.....                      | 5,490,796               | 444,730                    | 140,236                                        | 675,771                  | 562,599    | 7,314,132               | 427,763              |
| 1917.....                      | 6,142,149               | 397,665                    | 139,952                                        | 697,532                  | 529,565    | 7,906,863               | 446,722              |
| 1918.....                      | 4,304,589               | 399,414                    | 137,907                                        | 700,022                  | 486,168    | 6,028,100               | 461,423              |
| 1919.....                      | 1,781,957               | 111,553                    | 149,859                                        | 743,857                  | 540,331    | 3,327,557               | 414,868              |
| 1920.....                      | 2,211,935               | 164,046                    | 156,558                                        | 733,091                  | 698,878    | 3,964,508               | 387,655              |
| 1921.....                      | 4,579,565               | 798,113                    | 157,886                                        | 745,986                  | 713,335    | 6,994,885               | 441,926              |
| 1922.....                      | 5,449,962               | 1,193,143                  | 192,875                                        | 815,979                  | 920,993    | 8,572,952               | 365,941              |
| 1923.....                      | 4,482,639               | 836,810                    | 209,201                                        | 983,042                  | 1,105,054  | 7,616,746               | 804,516              |
| 1924.....                      | 4,995,184               | 564,242                    | 204,536                                        | 924,217                  | 859,839    | 7,548,018               | 742,404              |
| 1925.....                      | 6,747,395               | 479,900                    | 204,653                                        | 980,094                  | 942,056    | 9,354,098               | 897,412              |
| 1926.....                      | 10,619,903              | 458,791                    | 187,579                                        | 959,516                  | 853,076    | 13,078,865              | 907,650              |
| 1927.....                      | 12,024,461              | 501,449                    | 182,376                                        | 1,046,568                | 873,682    | 14,628,536              | 920,900              |
| 1928.....                      | 13,845,684              | 451,880                    | 153,776                                        | 1,129,040                | 858,473    | 16,438,853              | 961,694              |
| 1929.....                      | 13,762,905              | 418,719                    | 175,818                                        | 1,212,721                | 1,150,241  | 16,720,404              | 1,355,677            |
| 1930.....                      | 13,237,684 <sup>2</sup> | 300,292                    | 163,804                                        | 1,219,135                | 1,027,685  | 15,948,600 <sup>2</sup> | 1,230,333            |
| 1931.....                      | 10,816,783 <sup>2</sup> | 348,517                    | 200,721                                        | 1,157,353                | 1,105,386  | 13,628,740 <sup>2</sup> | 1,043,647            |
| 1932.....                      | 12,945,771 <sup>2</sup> | 786,941                    | 180,106                                        | 1,495,796                | 1,237,141  | 16,645,755 <sup>2</sup> | 1,026,670            |
| 1933.....                      | 3,855,637 <sup>2</sup>  | 344,389                    | 150,591                                        | 1,496,594                | 1,064,022  | 6,911,233 <sup>2</sup>  | 976,845              |
| 1934.....                      | 3,122,026               | 282,883                    | 103,233                                        | 1,454,722                | 958,956    | 5,921,820 <sup>2</sup>  | 831,020 <sup>2</sup> |
| 1934.....                      | 1,975,073               | 287,535                    | 91,278                                         | 1,333,786                | 875,935    | 4,563,607 <sup>2</sup>  | 877,630 <sup>2</sup> |
| Totals.....                    | 249,932,926             | 17,738,192                 | 5,359,335                                      | 31,545,432               | 28,988,733 | 336,564,618             | 30,851,699           |

<sup>1</sup>The income account is of expenditure on buildings and permanent improvements; the revenue account is of expenditure on maintenance only. <sup>2</sup>Revised to include amounts spent on the Prescott elevator by the Department of Public Works. <sup>3</sup>Revenues and expenses of elevator at Churchill, Manitoba, included in 1933 and subsequent years.

### 43.—Capital Expenditures for Construction and Enlargement of Canals to Mar. 31, 1934.

| Canal.                              | Expenditure, Fiscal Year 1934. | Total Expenditure. | Canal.                   | Expenditure, Fiscal Year 1934. | Total Expenditure. |
|-------------------------------------|--------------------------------|--------------------|--------------------------|--------------------------------|--------------------|
| Carillon and Grenville <sup>1</sup> | \$ -                           | 4,191,757          | St. Lawrence Ship Canal. | \$ -                           | 133,897            |
| Ste. Anne Lock and Canal.           | -                              | 1,320,216          | St. Peters.....          | -                              | 648,547            |
| Chamby.....                         | -                              | 780,996            | Rideau.....              | -                              | 4,214,213          |
| St. Ours Lock.....                  | -                              | 735,964            | Tay.....                 | -                              | 489,599            |
| Lachine.....                        | Cr. 1,274                      | 13,988,600         | Murray.....              | -                              | 1,248,947          |
| Lake St. Louis.....                 | -                              | 298,176            | Trent.....               | Cr. 42                         | 19,953,584         |
| Beauharnois.....                    | -                              | 1,636,029          | Welland.....             | Cr. 205                        | 29,902,952         |
| Soulanges.....                      | -                              | 7,899,945          | Welland Ship Canal.....  | 1,976,593                      | 131,065,440        |
| Lake St. Francis.....               | -                              | 75,907             | Sault Ste. Marie.....    | -                              | 4,935,809          |
| Cornwall.....                       | -                              | 7,245,804          | Culbute Lock and Dam..   | -                              | 382,391            |
| Williamsburg.....                   | -                              | 1,334,552          | Canals, general.....     | -                              | 34,967             |
| Farran's Point.....                 | -                              | 877,091            | Prescott Elevator.....   | -                              | 4,715,325          |
| Galops.....                         | -                              | 6,143,468          |                          |                                |                    |
| Rapide Plat.....                    | -                              | 2,159,881          | <b>Totals.....</b>       | <b>1,975,072</b>               | <b>249,932,926</b> |
| St. Lawrence River—                 |                                |                    |                          |                                |                    |
| North Channel.....                  | -                              | 1,995,143          |                          |                                |                    |
| River Reaches.....                  | -                              | 483,830            |                          |                                |                    |
| Galops Channel.....                 | -                              | 1,039,896          |                          |                                |                    |

<sup>1</sup>The records relating to cost of construction by the Imperial Government were destroyed by fire in 1852 and the statistics prior to that year are not included in this table.



## Section 2.—Canal Traffic.

Tables 44 to 49 deal with the traffic passing through Canadian canals in recent years up to and including 1934. In this latest year the total traffic amounted to 18,069,252 tons, which was a decrease of 711,237 tons from the total for 1933. By the summer of 1931, the new Welland Ship Canal was advanced sufficiently to allow vessels drawing up to 18 feet of water to pass through and, at the opening of navigation in 1932, the allowable draught was increased to 20 feet for the large upper-lake vessels. Later in the season vessels drawing 20½ feet and with cargoes up to 15,900 tons used the canal. Iron ore, which had previously been shipped by rail from Point Edward to Hamilton, has since been shipped through from Lake Superior to Hamilton by water, and increased quantities of coal and other commodities have been shipped through the canal.

For details of traffic handled through each canal, see the annual report on Canal Statistics published by the Bureau of Statistics.

44.—Total Traffic through Canadian Canals, by Nationality of Vessels and Origin of Freight, navigation seasons 1911-34.<sup>1</sup>

NOTE.—For Canadian canal traffic from 1886 to 1899, see 1902 Year Book, p. 398, and for the figures for 1900-10 see the 1933 Year Book, p. 697.

| Navigation Season.   | Canadian Vessels. |                     | United States Vessels. |                     | Freight Carried.       |                   |                               |                |                         |
|----------------------|-------------------|---------------------|------------------------|---------------------|------------------------|-------------------|-------------------------------|----------------|-------------------------|
|                      |                   |                     |                        |                     | Originating in Canada. |                   | Originating in United States. |                | Total.                  |
|                      | No.               | Registered Tonnage. | No.                    | Registered Tonnage. | Tons.                  | P.C. of Total.    | Tons.                         | P.C. of Total. | Tons.                   |
| 1911..               | 25,585            | 9,172,192           | 10,370                 | 18,231,622          | 7,792,907              | 20.5              | 30,237,446                    | 79.5           | 38,030,353              |
| 1912..               | 27,371            | 10,237,335          | 11,785                 | 24,636,190          | 9,376,529              | 19.7              | 38,210,716                    | 80.3           | 47,587,245              |
| 1913..               | 28,654            | 12,078,041          | 10,739                 | 24,238,788          | 11,130,875             | 21.3              | 40,923,038                    | 78.7           | 52,053,913              |
| 1914 <sup>2</sup> .. | 26,125            | 12,050,856          | 7,742                  | 15,636,414          | 9,382,206              | 25.3              | 27,641,031                    | 74.7           | 37,023,237 <sup>2</sup> |
| 1915..               | 21,575            | 9,398,207           | 6,415                  | 7,385,101           | 6,789,423              | 44.7              | 8,409,380                     | 55.3           | 15,198,803              |
| 1916..               | 23,002            | 9,839,029           | 6,800                  | 10,660,839          | 7,486,962              | 31.7 <sup>3</sup> | 16,096,529                    | 68.3           | 23,583,491              |
| 1917..               | 21,588            | 9,831,694           | 6,594                  | 10,259,772          | 5,964,369              | 26.8              | 16,274,566                    | 73.2           | 22,238,935              |
| 1918..               | 18,909            | 7,800,972           | 6,791                  | 9,616,200           | 3,369,477              | 17.8              | 15,514,142                    | 82.2           | 18,883,619              |
| 1919 <sup>3</sup> .. | 20,682            | 8,735,973           | 4,092                  | 5,259,173           | 4,865,831              | 48.7              | 5,129,435                     | 51.3           | 9,995,266 <sup>3</sup>  |
| 1920..               | 23,038            | 8,521,643           | 3,826                  | 3,838,890           | 4,094,044              | 46.9              | 4,641,339                     | 53.1           | 8,735,383               |
| 1921..               | 25,720            | 10,079,388          | 2,969                  | 2,330,178           | 4,562,028              | 48.5              | 4,844,993                     | 51.5           | 9,407,021               |
| 1922..               | 26,217            | 11,059,261          | 3,735                  | 3,165,054           | 6,273,227              | 62.1              | 3,752,828                     | 37.9           | 10,026,055              |
| 1923..               | 27,112            | 13,013,970          | 3,399                  | 3,325,809           | 7,637,485              | 68.2              | 3,561,949                     | 31.8           | 11,199,434              |
| 1924..               | 27,467            | 13,988,909          | 3,233                  | 2,821,177           | 8,857,177              | 68.8              | 4,011,920                     | 31.2           | 12,869,097              |
| 1925..               | 28,361            | 14,964,785          | 3,587                  | 3,824,924           | 9,570,311              | 67.7              | 4,560,356                     | 32.3           | 14,130,667              |
| 1926..               | 27,965            | 14,542,485          | 3,543                  | 3,144,866           | 9,656,190              | 71.7              | 3,821,473                     | 28.3           | 13,477,663              |
| 1927..               | 36,162            | 17,472,601          | 4,013                  | 3,364,461           | 11,863,931             | 67.8              | 5,624,380                     | 32.2           | 17,488,311              |
| 1928..               | 30,575            | 17,435,176          | 3,973                  | 3,270,591           | 13,882,592             | 74.2              | 4,837,849                     | 25.8           | 18,720,441              |
| 1929..               | 25,917            | 13,741,071          | 2,400                  | 3,323,351           | 9,689,718              | 76.7              | 4,009,929                     | 29.3           | 13,699,647              |
| 1930..               | 24,100            | 14,489,045          | 2,063                  | 1,684,576           | 10,955,113             | 74.0              | 3,848,221                     | 26.0           | 14,803,334              |
| 1931..               | 25,830            | 15,869,553          | 1,821                  | 1,749,231           | 11,433,737             | 70.6              | 4,755,337                     | 29.4           | 16,189,074              |
| 1932..               | 19,854            | 15,255,970          | 2,061                  | 2,681,078           | 13,242,773             | 73.7              | 4,717,877                     | 26.3           | 17,960,650              |
| 1933..               | 21,364            | 15,225,022          | 2,200                  | 3,405,876           | 12,724,925             | 67.8              | 6,055,564                     | 32.2           | 18,780,489              |
| 1934..               | 22,217            | 14,766,837          | 2,044                  | 2,969,981           | 10,813,922             | 59.8              | 7,255,330                     | 40.2           | 18,069,252              |

<sup>1</sup> Figures include duplication where cargoes use two or more canals.

<sup>2</sup> Third lock of United States' Sault Ste. Marie canal opened Oct. 21, 1914.

<sup>3</sup> Fourth lock of United States' Sault Ste. Marie canal opened Sept. 18, 1919.

**45.—Distribution of Total Freight Traffic on Canals, by Months, navigation seasons 1927-34.<sup>1</sup>**

| Month.                         | 1927.             | 1928.             | 1929.             | 1930.             | 1931.             | 1932.             | 1933.             | 1934.             |
|--------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                | tons.             | tons.             | tons.             | tons.             | tons.             | tons.             | tons.             | tons.             |
| January.....                   | 541               | 535               | —                 | —                 | —                 | —                 | —                 | —                 |
| April.....                     | 673,811           | 111,161           | 711,312           | 294,038           | 859,121           | 912,999           | 1,062,813         | 309,131           |
| May.....                       | 2,426,701         | 2,452,368         | 2,155,653         | 2,023,657         | 2,676,774         | 2,235,860         | 2,337,091         | 2,479,454         |
| June.....                      | 2,497,073         | 2,583,737         | 2,165,033         | 1,966,064         | 2,243,120         | 2,346,107         | 2,663,683         | 2,466,473         |
| July.....                      | 1,975,204         | 2,621,168         | 1,875,862         | 2,155,723         | 1,987,980         | 2,273,578         | 2,336,342         | 2,608,746         |
| August.....                    | 2,468,196         | 2,843,453         | 1,899,269         | 2,319,748         | 2,080,946         | 2,439,664         | 2,543,949         | 2,435,695         |
| September.....                 | 2,596,336         | 2,502,805         | 1,775,010         | 2,226,704         | 2,066,567         | 2,687,235         | 2,895,770         | 2,366,661         |
| October.....                   | 2,646,216         | 2,792,983         | 1,759,939         | 2,170,635         | 2,064,330         | 2,578,860         | 2,679,512         | 2,680,794         |
| November.....                  | 2,022,010         | 2,540,168         | 1,258,485         | 1,493,992         | 2,012,871         | 2,232,162         | 2,122,913         | 2,474,436         |
| December.....                  | 182,223           | 272,063           | 99,084            | 152,773           | 197,365           | 254,185           | 138,416           | 247,862           |
| <b>Totals<sup>1</sup>.....</b> | <b>17,488,311</b> | <b>18,720,441</b> | <b>13,699,647</b> | <b>14,803,334</b> | <b>16,189,074</b> | <b>17,960,650</b> | <b>18,780,489</b> | <b>18,069,252</b> |

<sup>1</sup> Figures include duplications where cargoes use two or more canals.

**46.—Tonnage of Canal Traffic, by Canals and Classes of Products, navigation seasons 1933 and 1934.<sup>1</sup>**

| Year and Canal.                | Agricultural Products. | Animal Products. | Manu-<br>factures. | Forest Products. | Mineral Products. | Total.            |
|--------------------------------|------------------------|------------------|--------------------|------------------|-------------------|-------------------|
| 1933.                          | tons.                  | tons.            | tons.              | tons.            | tons.             | tons.             |
| Sault Ste. Marie.....          | 1,657,432              | 864              | 334,349            | 54,991           | 222,321           | 2,269,957         |
| Welland.....                   | 3,682,806              | 3,331            | 2,081,565          | 339,516          | 3,086,912         | 9,194,130         |
| St. Lawrence.....              | 3,188,536              | 10,712           | 1,967,466          | 549,551          | 1,234,799         | 6,951,064         |
| Chambly.....                   | 1,818                  | 79               | 8,684              | 3,134            | 13,197            | 26,912            |
| St. Peters.....                | *4,991                 | 1,253            | 5,467              | 4,738            | 15,343            | 31,792            |
| Murray.....                    | —                      | —                | 1,286              | —                | 2,024             | 3,310             |
| Ottawa.....                    | 140                    | 422              | 95,195             | 12,906           | 145,101           | 253,764           |
| Rideau.....                    | 114                    | 303              | 19,087             | 852              | 1,512             | 21,868            |
| Trent.....                     | 150                    | 11               | 638                | 5,152            | 390               | 6,341             |
| St. Andrews.....               | 26                     | 903              | 1,429              | 11,568           | 7,425             | 21,351            |
| <b>Totals<sup>1</sup>.....</b> | <b>8,536,013</b>       | <b>17,878</b>    | <b>4,515,166</b>   | <b>982,408</b>   | <b>4,729,024</b>  | <b>18,780,489</b> |
| 1934.                          |                        |                  |                    |                  |                   |                   |
| Sault Ste. Marie.....          | 1,139,091              | 627              | 386,384            | 74,779           | 126,271           | 1,727,152         |
| Welland.....                   | 2,768,578              | 2,426            | 2,029,267          | 501,122          | 3,979,069         | 9,280,452         |
| St. Lawrence.....              | 2,330,317              | 8,062            | 2,010,733          | 752,150          | 1,558,790         | 6,660,052         |
| Chambly.....                   | 2,975                  | 61               | 12,061             | 1,951            | 16,278            | 33,326            |
| St. Peters.....                | 6,840                  | 1,476            | 5,130              | 20,192           | 19,002            | 52,640            |
| Murray.....                    | 1,680                  | —                | 2                  | —                | 7,075             | 8,757             |
| Ottawa.....                    | 123                    | 331              | 92,950             | 13,601           | 166,116           | 273,121           |
| Rideau.....                    | 111                    | 233              | 18,944             | 1,619            | 939               | 21,846            |
| Trent.....                     | 194                    | 32               | 997                | 3,113            | 288               | 4,624             |
| St. Andrews.....               | 7                      | 1,285            | 4,380              | 780              | 830               | 7,282             |
| <b>Totals<sup>1</sup>.....</b> | <b>6,249,916</b>       | <b>14,533</b>    | <b>4,560,838</b>   | <b>1,369,307</b> | <b>5,874,658</b>  | <b>18,069,252</b> |

<sup>1</sup> Figures include duplications where cargoes use two or more canals.

47.—Principal Commodities Carried through Canadian Canals, navigation seasons 1931-34.<sup>1</sup>

| Commodity.                         | 1931.             | 1932.             | 1933.             | 1934.             | Increase<br>in 1934. | Decrease<br>in 1934. |
|------------------------------------|-------------------|-------------------|-------------------|-------------------|----------------------|----------------------|
|                                    | tons.             | tons.             | tons.             | tons.             | tons.                | tons.                |
| Barley.....                        | 1,098,192         | 617,255           | 156,054           | 420,838           | 264,784              | -                    |
| Buckwheat.....                     | 36                | 1                 | 28                | 96                | 68                   | -                    |
| Corn.....                          | 166,930           | 445,151           | 320,267           | 295,459           | -                    | 24,808               |
| Oats.....                          | 585,658           | 428,181           | 187,557           | 271,253           | 83,696               | -                    |
| Rye.....                           | 87,106            | 537,968           | 136,282           | 320,685           | 184,403              | -                    |
| Flaxseed.....                      | 64,211            | 60,544            | 83,048            | 77,849            | -                    | 5,199                |
| Beans.....                         | 5                 | 32,281            | 20                | 36                | 16                   | -                    |
| Wheat.....                         | 4,842,445         | 6,622,237         | 6,648,831         | 4,011,651         | -                    | 2,637,180            |
| Flour.....                         | 826,373           | 176,457           | 881,457           | 704,138           | -                    | 177,319              |
| Hay.....                           | 3,794             | 2,313             | 2,942             | 5,192             | 2,250                | -                    |
| Other milled products.....         | 73,016            | 84,749            | 108,745           | 132,612           | 23,867               | -                    |
| Fruits and vegetables.....         | 7,055             | 5,248             | 5,713             | 2,938             | -                    | 2,775                |
| Potatoes.....                      | 2,486             | 8,892             | 5,069             | 7,169             | 2,100                | -                    |
| Live stock.....                    | 390               | 250               | 77                | 51                | -                    | 26                   |
| Poultry, game and fish.....        | 1,637             | 1,900             | 4,570             | 3,729             | -                    | 841                  |
| Dressed meats.....                 | 35                | 297               | 1,008             | 415               | -                    | 593                  |
| Other packing-house products.....  | 3,351             | 2,052             | 2,245             | 2,445             | 200                  | -                    |
| Hides and leather.....             |                   |                   |                   |                   |                      |                      |
| Wool.....                          | 10,417            | 10,130            | 9,978             | 7,893             | -                    | 2,085                |
| All other animal products.....     |                   |                   |                   |                   |                      |                      |
| Agricultural implements.....       | 1,743             | 3,776             | 8,441             | 11,154            | 2,713                | -                    |
| Cement, bricks and lime.....       | 17,246            | 33,294            | 97,742            | 65,603            | -                    | 32,139               |
| Household goods and furniture..... | 503               | 234               | 190               | 355               | 165                  | -                    |
| Iron, pig and bloom.....           | 37,100            | 13,594            | 38,268            | 16,407            | -                    | 21,861               |
| Iron and steel, all other.....     | 174,144           | 146,929           | 144,951           | 208,860           | 63,909               | -                    |
| Gasolene.....                      | 226,807           | 545,803           | 642,403           | 852,580           | 210,177              | -                    |
| Petroleum and other oils.....      | 900,716           | 784,303           | 776,081           | 863,519           | 87,438               | -                    |
| Sugar.....                         | 403,351           | 438,612           | 390,189           | 332,234           | -                    | 57,955               |
| Salt.....                          | 35,196            | 49,739            | 86,691            | 68,358            | -                    | 18,333               |
| Wines, liquors and beer.....       | 29,123            | 16,591            | 22,274            | 16,950            | -                    | 5,324                |
| Merchandise not enumerated.....    | 950,379           | 1,415,033         | 1,958,559         | 1,178,573         | -                    | 156,433 <sup>2</sup> |
| Paper.....                         | 200,472           | 284,026           | 349,377           | 322,692           | -                    | 26,685               |
| Wood pulp.....                     | <sup>3</sup>      | <sup>2</sup>      | <sup>2</sup>      | 570,074           | -                    | -                    |
| Automobiles.....                   | <sup>2</sup>      | <sup>2</sup>      | <sup>2</sup>      | 53,479            | -                    | -                    |
| Pulpwood.....                      | 644,599           | 731,085           | 905,260           | 1,288,338         | 383,078              | -                    |
| Sawn lumber.....                   | 66,404            | 57,128            | 44,295            | 45,380            | 1,085                | -                    |
| Squared timber.....                | 7,285             | 2,578             | 7,093             | 12,289            | 5,196                | -                    |
| Shingles.....                      | 2,117             | 1,162             | 1,145             | 1,225             | 80                   | -                    |
| Other woods.....                   | 28,014            | 11,934            | 24,615            | 22,075            | -                    | 2,540                |
| Hard coal.....                     | 165,609           | 275,262           | 341,868           | 413,309           | 71,441               | -                    |
| Soft coal.....                     | 2,962,734         | 2,745,576         | 3,429,877         | 3,941,982         | 512,105              | -                    |
| Coke.....                          | 229,298           | 316,295           | 391,803           | 492,405           | 100,602              | -                    |
| Copper ore.....                    | 22,294            | 6,234             | 24,062            | 8,700             | -                    | 15,362               |
| Iron ore.....                      | 338,518           | 54,290            | 232,620           | 608,533           | 375,913              | -                    |
| Other ore.....                     | 32,872            | 3,534             | 53,548            | 80,316            | 26,768               | -                    |
| Sand, etc.....                     | 939,913           | 387,732           | 255,246           | 329,413           | 74,167               | -                    |
| <b>Totals<sup>1</sup>.....</b>     | <b>16,189,074</b> | <b>17,960,650</b> | <b>18,789,489</b> | <b>18,069,252</b> | <b>-</b>             | <b>711,237</b>       |

<sup>1</sup> Figures include duplications where cargoes use two or more canals. <sup>2</sup> Wood pulp and automobiles included in 1931, 1932 and 1933, with merchandise not enumerated. <sup>3</sup> See footnote 2. The figure given represents the real decline in 1933.

48.—Canal Traffic, by Direction and Origin, navigation seasons 1933 and 1934.<sup>1</sup>

| Year and Canal.                 | From Canadian to Canadian Ports. |                  | From Canadian to United States Ports. |                | From United States to United States Ports. |                | From United States to Canadian Ports. |                  |
|---------------------------------|----------------------------------|------------------|---------------------------------------|----------------|--------------------------------------------|----------------|---------------------------------------|------------------|
|                                 | Up.                              | Down.            | Up.                                   | Down.          | Up.                                        | Down.          | Up.                                   | Down.            |
| 1933.                           | tons.                            | tons.            | tons.                                 | tons.          | tons.                                      | tons.          | tons.                                 | tons.            |
| Sault Ste. Marie...             | 290,150                          | 1,628,177        | 21,970                                | 80,903         | 24,021                                     | 31,918         | 189,353                               | 3,465            |
| Welland.....                    | 704,921                          | 3,572,601        | 718,575                               | 34,502         | 386,613                                    | 636,089        | 7,412                                 | 3,133,417        |
| St. Lawrence.....               | 2,054,096                        | 3,256,621        | 721,251                               | 42,425         | 133,195                                    | 82,711         | 36,808                                | 623,957          |
| Chambly.....                    | 13,312                           | 1,420            | 6,352                                 | 291            | —                                          | —              | —                                     | 5,537            |
| St. Peters.....                 | 8,312                            | 18,927           | 701                                   | 3,852          | —                                          | —              | —                                     | —                |
| Murray.....                     | 589                              | 699              | —                                     | —              | —                                          | —              | —                                     | 2,022            |
| Ottawa.....                     | 146,917                          | 100,678          | —                                     | 3,229          | —                                          | —              | 2,940                                 | —                |
| Rideau.....                     | 18,000                           | 3,868            | —                                     | —              | —                                          | —              | —                                     | —                |
| Trent.....                      | 1,609                            | 4,732            | —                                     | —              | —                                          | —              | —                                     | —                |
| St. Andrews.....                | 19,117                           | 2,234            | —                                     | —              | —                                          | —              | —                                     | —                |
| <b>Totals<sup>1</sup></b> ..... | <b>3,257,023</b>                 | <b>8,589,957</b> | <b>1,468,849</b>                      | <b>165,202</b> | <b>543,829</b>                             | <b>750,718</b> | <b>236,513</b>                        | <b>3,768,398</b> |
| 1934.                           |                                  |                  |                                       |                |                                            |                |                                       |                  |
| Sault Ste. Marie...             | 321,099                          | 1,071,755        | 62,982                                | 120,867        | 12,277                                     | 23,925         | 112,037                               | 2,210            |
| Welland.....                    | 899,521                          | 2,579,041        | 971,361                               | 43,596         | 321,031                                    | 476,532        | 12,266                                | 3,977,104        |
| St. Lawrence.....               | 2,636,871                        | 2,297,563        | 854,950                               | 24,842         | 65,507                                     | 51,066         | 37,799                                | 691,454          |
| Chambly.....                    | 23,470                           | 918              | 5,979                                 | 61             | —                                          | —              | —                                     | 2,898            |
| St. Peters.....                 | 10,883                           | 35,218           | —                                     | 6,539          | —                                          | —              | —                                     | —                |
| Murray.....                     | 1,680                            | 218              | —                                     | —              | —                                          | —              | —                                     | 6,859            |
| Ottawa.....                     | 146,192                          | 125,220          | —                                     | 1,709          | —                                          | —              | —                                     | —                |
| Rideau.....                     | 18,620                           | 3,226            | —                                     | —              | —                                          | —              | —                                     | —                |
| Trent.....                      | 2,566                            | 2,058            | —                                     | —              | —                                          | —              | —                                     | —                |
| St. Andrews.....                | 2,948                            | 4,334            | —                                     | —              | —                                          | —              | —                                     | —                |
| <b>Totals<sup>1</sup></b> ..... | <b>4,063,850</b>                 | <b>6,119,551</b> | <b>1,895,272</b>                      | <b>197,614</b> | <b>398,815</b>                             | <b>551,523</b> | <b>162,102</b>                        | <b>4,680,525</b> |

| Year and Canal.                 | Traffic by Direction. |                   | Origins of Cargo. |                  | Total Cargo.      | Increase(+) or Decrease (—) on Previous Year. |
|---------------------------------|-----------------------|-------------------|-------------------|------------------|-------------------|-----------------------------------------------|
|                                 | Up.                   | Down.             | Canada.           | United States.   |                   |                                               |
| 1933.                           | tons.                 | tons.             | tons.             | tons.            | tons.             | tons.                                         |
| Sault Ste. Marie.....           | 525,494               | 1,744,463         | 2,014,213         | 255,744          | 2,269,957         | — 67,244                                      |
| Welland.....                    | 1,817,521             | 7,376,609         | 4,832,348         | 4,361,782        | 9,194,130         | + 656,670                                     |
| St. Lawrence.....               | 2,945,350             | 4,005,714         | 5,523,525         | 1,427,539        | 6,951,064         | + 257,264                                     |
| Chambly.....                    | 19,664                | 7,248             | 21,375            | 5,537            | 26,912            | — 2,438                                       |
| St. Peters.....                 | 9,013                 | 22,779            | 31,792            | —                | 31,792            | — 9,039                                       |
| Murray.....                     | 589                   | 2,721             | 1,288             | 2,022            | 3,310             | + 2,886                                       |
| Ottawa.....                     | 149,857               | 103,907           | 250,824           | 2,940            | 253,764           | + 241                                         |
| Rideau.....                     | 18,000                | 3,868             | 21,868            | —                | 21,868            | — 3,822                                       |
| Trent.....                      | 1,609                 | 4,732             | 6,341             | —                | 6,341             | + 1,152                                       |
| St. Andrews.....                | 19,117                | 2,234             | 21,351            | —                | 21,351            | — 15,831                                      |
| <b>Totals<sup>1</sup></b> ..... | <b>5,506,214</b>      | <b>13,274,275</b> | <b>12,724,925</b> | <b>6,055,564</b> | <b>18,780,489</b> | <b>+ 819,839</b>                              |
| 1934.                           |                       |                   |                   |                  |                   |                                               |
| Sault Ste. Marie.....           | 508,395               | 1,218,757         | 1,576,703         | 150,449          | 1,727,152         | — 542,805                                     |
| Welland.....                    | 2,204,179             | 7,076,273         | 3,925,659         | 5,354,793        | 9,280,452         | + 86,322                                      |
| St. Lawrence.....               | 3,595,127             | 3,064,925         | 4,919,721         | 1,740,331        | 6,660,052         | — 291,012                                     |
| Chambly.....                    | 29,449                | 3,877             | 30,428            | 2,898            | 33,326            | + 6,414                                       |
| St. Peters.....                 | 10,883                | 41,757            | 52,640            | —                | 52,640            | + 20,848                                      |
| Murray.....                     | 1,680                 | 7,077             | 1,898             | 6,859            | 8,757             | + 5,447                                       |
| Ottawa.....                     | 146,192               | 126,929           | 273,121           | —                | 273,121           | + 19,357                                      |
| Rideau.....                     | 18,620                | 3,226             | 21,846            | —                | 21,846            | — 22                                          |
| Trent.....                      | 2,566                 | 2,058             | 4,624             | —                | 4,624             | — 1,717                                       |
| St. Andrews.....                | 2,948                 | 4,334             | 7,282             | —                | 7,282             | — 14,069                                      |
| <b>Totals<sup>1</sup></b> ..... | <b>6,520,639</b>      | <b>11,549,213</b> | <b>10,813,922</b> | <b>7,255,330</b> | <b>18,069,252</b> | <b>— 711,237</b>                              |

<sup>1</sup>Figures include duplications where cargoes use two or more canals.



## 49.—Traffic through individual Canadian Canals, navigation seasons 1930-34.

NOTE.—For corresponding figures for 1920-24, see p. 636 of the 1925 Year Book and for 1925-29, p. 668 of the 1930 Year Book.

| Canal and Year.            | Canadian Vessels. |                     | United States Vessels. |                     | Total Passengers. | Total Freight Carried. |
|----------------------------|-------------------|---------------------|------------------------|---------------------|-------------------|------------------------|
|                            | No.               | Registered tonnage. | No.                    | Registered Tonnage. |                   |                        |
|                            |                   | tons.               |                        | tons.               |                   | tons.                  |
| Sault Ste. Marie—          |                   |                     |                        |                     |                   |                        |
| 1930.....                  | 2,595             | 2,622,448           | 362                    | 859,128             | 27,831            | 1,691,471              |
| 1931.....                  | 2,864             | 3,195,482           | 230                    | 611,128             | 20,626            | 2,219,567              |
| 1932.....                  | 2,951             | 3,172,136           | 148                    | 284,339             | 14,330            | 2,337,201              |
| 1933.....                  | 2,930             | 2,853,619           | 191                    | 489,986             | 11,193            | 2,269,957              |
| 1934.....                  | 2,516             | 2,399,083           | 179                    | 304,506             | 19,082            | 1,727,152              |
| Welland —                  |                   |                     |                        |                     |                   |                        |
| 1930.....                  | 4,623             | 5,028,583           | 629                    | 545,984             | 1,580             | 6,087,910              |
| 1931.....                  | 4,942             | 6,076,320           | 868                    | 942,973             | 6,887             | 7,273,886              |
| 1932.....                  | 4,473             | 6,076,197           | 1,239                  | 2,150,688           | 5,951             | 8,537,460              |
| 1933.....                  | 4,124             | 6,294,483           | 1,289                  | 2,171,530           | 2,178             | 9,194,130              |
| 1934.....                  | 3,855             | 6,218,221           | 1,295                  | 2,406,222           | 2,643             | 9,280,452              |
| St. Lawrence—              |                   |                     |                        |                     |                   |                        |
| 1930.....                  | 9,177             | 5,759,178           | 342                    | 211,882             | 51,848            | 6,179,023              |
| 1931.....                  | 10,257            | 5,685,318           | 265                    | 167,981             | 43,866            | 6,036,980              |
| 1932.....                  | 7,851             | 5,510,025           | 320                    | 224,456             | 1,784             | 6,693,800              |
| 1933.....                  | 9,072             | 5,603,283           | 436                    | 361,841             | 1,194             | 6,951,064              |
| 1934.....                  | 9,006             | 5,602,426           | 339                    | 238,208             | 7,622             | 6,660,052              |
| Chambly—                   |                   |                     |                        |                     |                   |                        |
| 1930.....                  | 307               | 26,497              | 472                    | 55,492              | 164               | 99,998                 |
| 1931.....                  | 327               | 23,311              | 194                    | 16,259              | 158               | 50,336                 |
| 1932.....                  | 203               | 15,045              | 116                    | 10,384              | 60                | 29,350                 |
| 1933.....                  | 264               | 18,653              | 91                     | 10,292              | 135               | 26,912                 |
| 1934.....                  | 325               | 26,991              | 105                    | 11,052              | 123               | 33,326                 |
| St. Peters—                |                   |                     |                        |                     |                   |                        |
| 1930.....                  | 845               | 76,861              | 20                     | 2,923               | 194               | 59,973                 |
| 1931.....                  | 871               | 69,849              | 22                     | 4,270               | 126               | 47,528                 |
| 1932.....                  | 790               | 61,233              | 70                     | 6,304               | 215               | 40,831                 |
| 1933.....                  | 879               | 47,630              | 32                     | 4,196               | 190               | 31,792                 |
| 1934.....                  | 926               | 61,821              | 36                     | 6,176               | 357               | 52,640                 |
| Murray—                    |                   |                     |                        |                     |                   |                        |
| 1930.....                  | 279               | 66,128              | 164                    | 3,572               | —                 | 2,316                  |
| 1931.....                  | 302               | 70,988              | 180                    | 3,879               | 60                | 889                    |
| 1932.....                  | 152               | 11,288              | 114                    | 1,523               | 88                | 424                    |
| 1933.....                  | 239               | 18,867              | 114                    | 2,841               | 719               | 3,310                  |
| 1934.....                  | 181               | 17,147              | 53                     | 1,295               | 22                | 8,757                  |
| Ottawa—                    |                   |                     |                        |                     |                   |                        |
| 1930.....                  | 3,209             | 687,987             | 49                     | 5,013               | 22,982            | 540,933                |
| 1931.....                  | 3,111             | 618,807             | 24                     | 1,984               | 24,648            | 492,919                |
| 1932.....                  | 1,334             | 275,898             | 26                     | 2,833               | —                 | 253,523                |
| 1933.....                  | 1,421             | 260,079             | 27                     | 4,891               | 9                 | 253,764                |
| 1934.....                  | 1,664             | 326,510             | 15                     | 2,215               | 7,305             | 273,121                |
| Rideau—                    |                   |                     |                        |                     |                   |                        |
| 1930.....                  | 506               | 51,104              | 11                     | 348                 | 785               | 28,210                 |
| 1931.....                  | 505               | 45,843              | 6                      | 130                 | 793               | 27,521                 |
| 1932.....                  | 439               | 42,895              | 11                     | 216                 | 613               | 25,690                 |
| 1933.....                  | 531               | 45,208              | 9                      | 122                 | 978               | 21,868                 |
| 1934.....                  | 571               | 43,145              | 4                      | 69                  | 3,361             | 21,846                 |
| Trent—                     |                   |                     |                        |                     |                   |                        |
| 1930.....                  | 1,712             | 54,614              | 14                     | 234                 | 26,989            | 23,785                 |
| 1931.....                  | 2,374             | 53,160              | 32                     | 627                 | 29,267            | 23,172                 |
| 1932.....                  | 1,325             | 35,509              | 17                     | 335                 | 21,027            | 5,189                  |
| 1933.....                  | 1,416             | 30,904              | 11                     | 177                 | 20,905            | 6,341                  |
| 1934.....                  | 2,714             | 32,564              | 18                     | 238                 | 26,506            | 4,624                  |
| St. Andrews—               |                   |                     |                        |                     |                   |                        |
| 1930.....                  | 847               | 115,645             | —                      | —                   | 893               | 89,715                 |
| 1931.....                  | 277               | 30,475              | —                      | —                   | 202               | 16,276                 |
| 1932.....                  | 336               | 55,744              | —                      | —                   | 121               | 37,182                 |
| 1933.....                  | 488               | 52,296              | —                      | —                   | 992               | 21,351                 |
| 1934.....                  | 459               | 38,929              | —                      | —                   | 2,969             | 7,282                  |
| <b>Totals<sup>1</sup>—</b> |                   |                     |                        |                     |                   |                        |
| 1930.....                  | <b>24,100</b>     | <b>14,489,045</b>   | <b>2,063</b>           | <b>1,684,576</b>    | <b>133,266</b>    | <b>14,803,334</b>      |
| 1931.....                  | <b>25,830</b>     | <b>15,869,553</b>   | <b>1,821</b>           | <b>1,749,231</b>    | <b>126,633</b>    | <b>16,189,074</b>      |
| 1932.....                  | <b>19,854</b>     | <b>15,255,970</b>   | <b>2,061</b>           | <b>2,681,078</b>    | <b>44,189</b>     | <b>17,960,650</b>      |
| 1933.....                  | <b>21,364</b>     | <b>15,225,022</b>   | <b>2,200</b>           | <b>3,045,876</b>    | <b>38,493</b>     | <b>18,780,489</b>      |
| 1934.....                  | <b>22,217</b>     | <b>14,766,837</b>   | <b>2,044</b>           | <b>2,969,981</b>    | <b>69,990</b>     | <b>18,069,252</b>      |

<sup>1</sup>Totals include duplications where vessels use two or more canals.

**The Panama Canal.\***—The Panama canal, which was opened to commercial traffic on Aug. 15, 1914, is a waterway which is destined to be of the greatest importance to the British Columbian ports, from which vessels now leave direct for Great Britain and European ports throughout the year. As an alternative route to that of the transcontinental railway lines, such a passage by water is of vital importance in the solution of the larger transportation problems of the continent, and while its influence is perhaps more potential than actual, such a check on trans-continental rail rates is a valuable one. During the War the great expectations based upon the opening of the canal were not realized, owing to the scarcity of shipping, but, with the post-war decline in ocean freight rates, an increase in traffic between our Pacific ports and Europe has taken place, and, while the proportion carried in vessels of Canadian registry is comparatively small, the cargo tonnage has nevertheless assumed considerable proportions. During the years ended June 30, 1933 and June 30, 1934, as will be seen from Table 50, tonnages of 121,875 and 196,204 originating on our eastern coast and tonnages of 134,511 and 189,227 destined for our western coast were carried westward through the canal. The greater importance of the route as one from Pacific to Atlantic ports is illustrated by the 2,201,180 tons originating at western ports and 498,706 tons destined for eastern Canadian ports locked through in the latest period. Strictly intercoastal Canadian cargo during the latest year aggregated 106,519 long tons as compared with 90,802 long tons in 1933. The canal is thus becoming an avenue of trade between Eastern, and Western Canada.

The report of the Governor of the Panama Canal Zone for the year ended June 30, 1934, records an increase from 1933 of from 4,494 to 5,533 in the number of transits, an increase from 22,821,876 to 28,566,595 in canal net tonnage and increases from \$19,620,459 to \$24,063,789 in tolls collected, and from 18,177,728 to 24,718,651 in tons of cargo carried (Table 51).

With respect to traffic by nationality of vessels and cargo carried, vessels of United States registration carried 11,578,453 tons, or 46·8 p.c. of the total cargo of 24,718,651 tons locked through in the year 1934. British vessels carried 5,193,136 tons, or 21·0 p.c., Norwegian vessels 2,080,833 tons, or 8·4 p.c., Japanese vessels 1,510,916 tons, or 6·1 p.c., German vessels 962,218 tons, or 4·0 p.c.

\*Revised, and figures supplied, by courtesy of the Governor of the Panama Canal Zone.

**50.—Traffic to and from the East and West Coasts of Canada via the Panama Canal, years ended June 30, 1921-34.**

| Year.     | Originating on—        |                        | Destined for—          |                        |
|-----------|------------------------|------------------------|------------------------|------------------------|
|           | Canada,<br>West Coast. | Canada,<br>East Coast. | Canada,<br>West Coast. | Canada,<br>East Coast. |
|           | long tons.             | long tons.             | long tons.             | long tons.             |
| 1921..... | 125,638                | 39,561                 | 126,414                | 16,558                 |
| 1922..... | 180,981                | 25,174                 | 148,305                | 6,521                  |
| 1923..... | 604,546                | 92,939                 | 101,588                | 125,283                |
| 1924..... | 1,223,102              | 110,677                | 141,086                | 197,204                |
| 1925..... | 1,082,282              | 121,803                | 158,709                | 379,284                |
| 1926..... | 1,650,855              | 160,196                | 168,295                | 614,580                |
| 1927..... | 1,548,783              | 207,003                | 248,009                | 803,418                |
| 1928..... | 2,845,675              | 168,287                | 268,960                | 394,173                |
| 1929..... | 2,650,646              | 231,128                | 266,433                | 539,767                |
| 1930..... | 1,968,996              | 185,776                | 267,282                | 556,562                |
| 1931..... | 2,307,257              | 137,756                | 271,621                | 492,532                |
| 1932..... | 2,383,211              | 89,443                 | 167,855                | 529,317                |
| 1933..... | 2,896,162              | 121,875                | 134,511                | 328,038                |
| 1934..... | 2,201,180              | 196,204                | 189,227                | 498,706                |

51.—Summary of Commercial Traffic through the Panama Canal, years ended June 30, 1915-34.

| Year.     | Atlantic to Pacific. |                | Pacific to Atlantic. |                | Total Traffic. |                |
|-----------|----------------------|----------------|----------------------|----------------|----------------|----------------|
|           | Vessels.             | Cargo Tonnage. | Vessels.             | Cargo Tonnage. | Vessels.       | Cargo Tonnage. |
|           | No.                  | long tons.     | No.                  | long tons.     | No.            | long tons.     |
| 1915..... | 522                  | 2,070,993      | 553                  | 2,817,461      | 1,075          | 4,888,454      |
| 1916..... | 396                  | 1,369,019      | 362                  | 1,725,095      | 758            | 3,094,114      |
| 1917..... | 874                  | 2,929,260      | 929                  | 4,129,303      | 1,803          | 7,058,563      |
| 1918..... | 915                  | 2,639,300      | 1,154                | 4,892,731      | 2,069          | 7,532,031      |
| 1919..... | 857                  | 2,740,254      | 1,167                | 4,176,367      | 2,024          | 6,916,621      |
| 1920..... | 1,180                | 4,092,516      | 1,298                | 5,281,983      | 2,478          | 9,374,499      |
| 1921..... | 1,471                | 5,892,078      | 1,421                | 5,707,136      | 2,892          | 11,599,214     |
| 1922..... | 1,509                | 5,495,934      | 1,227                | 5,388,976      | 2,736          | 10,884,910     |
| 1923..... | 2,125                | 7,086,259      | 1,842                | 12,481,616     | 3,967          | 19,567,875     |
| 1924..... | 2,740                | 7,860,100      | 2,490                | 19,134,610     | 5,230          | 26,994,710     |
| 1925..... | 2,413                | 7,398,397      | 2,260                | 16,560,439     | 4,673          | 23,958,836     |
| 1926..... | 2,760                | 8,037,097      | 2,437                | 18,000,351     | 5,197          | 26,037,448     |
| 1927..... | 2,888                | 8,583,327      | 2,587                | 19,164,888     | 5,475          | 27,748,215     |
| 1928..... | 3,384                | 8,310,134      | 3,072                | 21,320,575     | 6,456          | 29,630,709     |
| 1929..... | 3,348                | 9,882,520      | 3,065                | 20,780,486     | 6,413          | 30,663,006     |
| 1930..... | 3,135                | 9,475,725      | 3,050                | 20,554,507     | 6,185          | 30,030,232     |
| 1931..... | 2,804                | 6,680,429      | 2,725                | 18,402,371     | 5,529          | 25,082,800     |
| 1932..... | 2,344                | 5,635,358      | 2,162                | 14,172,640     | 4,506          | 19,807,998     |
| 1933..... | 2,357                | 4,511,889      | 2,137                | 13,665,839     | 4,494          | 18,177,728     |
| 1934..... | 2,908                | 6,167,328      | 2,625                | 18,551,323     | 5,533          | 24,718,651     |

## PART IX.—SHIPPING AND NAVIGATION.

Canadian shipping may be divided into three classes: (1) ocean or sea-going shipping; (2) inland or rivers and lakes international shipping; and (3) coasting trade or coastwise shipping. Ocean shipping covers the sea-going vessels arriving or departing from Atlantic and Pacific Coast ports, including St. Lawrence River ports up to Montreal. Inland international shipping is the term used to cover shipping between Canadian and United States ports on the Great Lakes and international rivers and on lakes and rivers accessible to shipping from United States ports such as the Ottawa, Rideau, Trent, etc. (Ferriage is, however, excluded from this and other classes of shipping.) Coastwise shipping or the coasting trade covers shipping between one Canadian port and another on the Atlantic coast, on the Pacific coast and on the inland international lakes and rivers or lakes and rivers accessible to them. It does not, however, include shipping on isolated Canadian waterways, such as the Mackenzie river, lake Winnipeg, lake St. John, etc.

Since the dates between which free navigation is possible down the St. Lawrence are so very important to Central Canada it has been considered advisable to include the following historical statement giving the dates, for years 1882 to 1934 inclusive, respecting the clearance of ice, the opening and closing of navigation, and the first arrivals and last departures of sea-going vessels in the ship channel between Quebec and Montreal.

OPENING AND CLOSING OF NAVIGATION, AND THE FIRST ARRIVAL AND LAST DEPARTURE OF SEA-GOING VESSELS IN THE HARBOUR OF MONTREAL, SINCE 1882; ALSO DATES WHEN CHANNEL BETWEEN QUEBEC AND MONTREAL WAS CLEAR OF ICE.

| Year.     | Channel Clear of Ice, Quebec to Montreal. | Opening of Navigation, Montreal Harbour. | Closing of Navigation, Montreal Harbour. | First Arrival from Sea, Montreal Harbour. | Last Departure for Sea, Montreal Harbour. |
|-----------|-------------------------------------------|------------------------------------------|------------------------------------------|-------------------------------------------|-------------------------------------------|
| 1882..... | April 23                                  | April 11                                 | Dec. 9                                   | May 6                                     | Nov. 21                                   |
| 1883..... | May 4                                     | " 27                                     | " 16                                     | " 5                                       | " 20                                      |
| 1884..... | April 28                                  | " 22                                     | " 18                                     | " 2                                       | " 20                                      |
| 1885..... | May 7                                     | May 5                                    | " 7                                      | " 8                                       | " 20                                      |
| 1886..... | April 26                                  | April 24                                 | " 4                                      | April 30                                  | " 25                                      |
| 1887..... | May 1                                     | May 1                                    | " 23                                     | May 3                                     | " 28                                      |
| 1888..... | " 1                                       | April 29                                 | " 14                                     | " 4                                       | " 22                                      |
| 1889..... | April 22                                  | " 14                                     | " 29                                     | April 27                                  | " 23                                      |
| 1890..... | " 27                                      | " 14                                     | " 3                                      | " 30                                      | " 24                                      |
| 1891..... | " 25                                      | " 17                                     | " 17                                     | " 27                                      | " 21                                      |
| 1892..... | " 21                                      | " 13                                     | " 23                                     | " 23                                      | " 27                                      |
| 1893..... | May 1                                     | " 24                                     | " 4                                      | May 3                                     | " 23                                      |
| 1894..... | April 23                                  | " 12                                     | " 26                                     | April 27                                  | " 24                                      |
| 1895..... | " 27                                      | " 20                                     | " 5                                      | " 27                                      | " 25                                      |
| 1896..... | " 24                                      | " 22                                     | " 19                                     | " 28                                      | " 23                                      |
| 1897..... | " 26                                      | " 17                                     | " 19                                     | " 30                                      | " 24                                      |
| 1898..... | " 10                                      | Mar 31                                   | " 12                                     | " 26                                      | " 28                                      |
| 1899..... | " 26                                      | April 24                                 | " 30                                     | " 27                                      | " 29                                      |
| 1900..... | " 26                                      | " 21                                     | " 10                                     | " 26                                      | Dec. 3                                    |
| 1901..... | " 19                                      | " 21                                     | " 10                                     | " 25                                      | Nov. 25                                   |
| 1902..... | " 13                                      | " 5                                      | " 8                                      | " 17                                      | Dec. 4                                    |
| 1903..... | " 11                                      | " 5                                      | " 10                                     | " 26                                      | Nov. 28                                   |
| 1904..... | " 27                                      | " 25                                     | " 9                                      | May 4                                     | " 27                                      |
| 1905..... | " 20                                      | " 19                                     | " 12                                     | " 2                                       | " 30                                      |
| 1906..... | " 18                                      | " 20                                     | " 2                                      | April 28                                  | Dec. 2                                    |
| 1907..... | May 1                                     | " 23                                     | " 15                                     | May 2                                     | Nov. 29                                   |
| 1908..... | April 28                                  | " 22                                     | " 10                                     | April 30                                  | " 26                                      |
| 1909..... | " 18                                      | " 16                                     | " 27                                     | " 23                                      | " 28                                      |
| 1910..... | " 3                                       | " 1                                      | " 7                                      | " 11                                      | Dec. 1                                    |
| 1911..... | " 25                                      | " 23                                     | Jan. 1 <sup>1</sup>                      | " 26                                      | " 3                                       |
| 1912..... | " 29                                      | " 23                                     | " 3 <sup>2</sup>                         | " 30                                      | " 3                                       |
| 1913..... | " 14                                      | " 3                                      | Dec. 27                                  | " 19                                      | Nov. 29                                   |
| 1914..... | " 25                                      | " 11                                     | " 23                                     | " 29                                      | Dec. 4                                    |
| 1915..... | " 14                                      | " 11                                     | " 15                                     | " 30                                      | " 11                                      |
| 1916..... | " 22                                      | " 22                                     | " 18                                     | May 1                                     | " 3                                       |
| 1917..... | " 22                                      | " 19                                     | " 7                                      | " 1                                       | " 7                                       |
| 1918..... | " 22                                      | " 21                                     | " 17                                     | " 7                                       | " 14                                      |
| 1919..... | " 16                                      | " 14                                     | " 12                                     | April 22                                  | " 10                                      |
| 1920..... | " 18                                      | " 18                                     | " 11                                     | " 25                                      | " 7                                       |
| 1921..... | Mar 29                                    | Mar 29                                   | " 14                                     | " 21                                      | " 8                                       |
| 1922..... | April 13                                  | April 13                                 | " 6                                      | " 24                                      | " 2                                       |
| 1923..... | " 29                                      | " 29                                     | " 18                                     | May 3                                     | " 2                                       |
| 1924..... | " 17                                      | " 18                                     | " 13                                     | April 24                                  | " 3                                       |
| 1925..... | " 10                                      | " 10                                     | " 10                                     | " 22                                      | " 9                                       |
| 1926..... | May 1                                     | May 1                                    | " 6                                      | May 3                                     | " 6                                       |
| 1927..... | April 11                                  | April 11                                 | " 17                                     | April 12                                  | " 6                                       |
| 1928..... | " 26                                      | " 26                                     | Jan 5 <sup>3</sup>                       | " 26                                      | " 9                                       |
| 1929..... | " 10                                      | " 10                                     | Dec. 10                                  | " 20                                      | " 7                                       |
| 1930..... | " 12                                      | " 12                                     | " 12                                     | " 21                                      | " 12                                      |
| 1931..... | Mar. 19                                   | Mar. 19                                  | " 11                                     | " 15                                      | " 11                                      |
| 1932..... | " 27                                      | " 27                                     | " 13                                     | " 14                                      | " 8                                       |
| 1933..... | " 23                                      | " 23                                     | " 14                                     | " 14                                      | " 6                                       |
| 1934..... | " 28                                      | " 28                                     | " 8                                      | " 26                                      | " 8                                       |

<sup>1</sup>1912.    <sup>2</sup>1913.    <sup>3</sup>1929.

Whereas, in the case of most countries of such extensive coast line, the ocean shipping is much the more important, in Canada the shipping on inland waters, while finally dependent to a large extent on ocean traffic to foreign ports, shares, almost equally with that on the Atlantic and Pacific oceans, the attention devoted to water traffic. The Great Lakes are among the leading highways of the international trade of the world; consequently, the statistics of inland international shipping are included with those of sea-going shipping in Table 52, while those of sea-going shipping alone will be found in Table 53.



Tables 52-60, following, have been compiled or revised from the Shipping Report of the Department of National Revenue for the fiscal years ended Mar. 31, 1933 and 1934.

**52.—Sea-Going and Inland Vessels (Exclusive of Coasting Vessels and Ferriage) Arrived at and Departed from Canadian Ports, fiscal years ended Mar. 31, 1911-34.**

NOTE.—For the years 1868-1910, see Canada Year Book, 1911, p. 380.

| Fiscal Year. | British. |                | Canadian. |                | Foreign. |                | Total Tonnage. |
|--------------|----------|----------------|-----------|----------------|----------|----------------|----------------|
|              | No.      | Tons Register. | No.       | Tons Register. | No.      | Tons Register. |                |
| 1911.....    | 6,870    | 12,712,337     | 29,670    | 16,380,146     | 40,892   | 18,337,062     | 47,429,545     |
| 1912.....    | 6,766    | 13,342,929     | 27,949    | 18,069,983     | 45,399   | 21,560,215     | 52,973,127     |
| 1913.....    | 7,307    | 13,896,353     | 42,624    | 20,677,938     | 47,303   | 23,275,492     | 57,849,783     |
| 1914.....    | 7,418    | 15,711,849     | 30,234    | 17,026,121     | 55,835   | 29,181,513     | 61,919,483     |
| 1915.....    | 6,949    | 13,931,091     | 29,359    | 17,504,751     | 48,635   | 22,168,311     | 53,604,153     |
| 1916.....    | 6,817    | 12,417,944     | 37,900    | 17,372,836     | 75,411   | 27,930,318     | 57,721,098     |
| 1917.....    | 7,387    | 16,144,873     | 39,978    | 20,290,252     | 74,850   | 29,277,419     | 65,712,544     |
| 1918.....    | 7,337    | 16,959,790     | 34,786    | 19,890,461     | 70,781   | 29,952,237     | 66,802,488     |
| 1919.....    | 6,099    | 14,054,166     | 37,023    | 17,567,061     | 52,273   | 21,607,821     | 53,229,048     |
| 1920.....    | 5,511    | 12,320,994     | 37,388    | 16,869,619     | 52,827   | 20,302,920     | 49,493,533     |
| 1921.....    | 4,526    | 10,545,619     | 39,877    | 22,236,962     | 50,370   | 21,866,049     | 54,648,630     |
| 1922.....    | 4,239    | 10,471,403     | 36,679    | 20,029,572     | 61,114   | 26,164,277     | 56,665,253     |
| 1923.....    | 4,869    | 13,868,905     | 59,364    | 26,423,287     | 87,199   | 32,110,991     | 72,403,183     |
| 1924.....    | 5,187    | 15,158,994     | 53,945    | 28,216,588     | 80,700   | 31,571,791     | 74,947,373     |
| 1925.....    | 5,763    | 16,463,204     | 44,432    | 26,620,979     | 84,084   | 34,854,868     | 77,939,051     |
| 1926.....    | 6,515    | 17,749,067     | 34,010    | 23,149,028     | 55,109   | 34,348,732     | 75,246,827     |
| 1927.....    | 6,448    | 18,117,525     | 34,015    | 25,692,591     | 62,344   | 33,521,543     | 77,331,659     |
| 1928.....    | 6,253    | 18,738,027     | 38,497    | 28,453,951     | 67,771   | 36,611,819     | 83,803,797     |
| 1929.....    | 6,400    | 21,625,660     | 39,038    | 29,792,258     | 75,745   | 42,317,309     | 93,735,227     |
| 1930.....    | 5,634    | 20,171,383     | 40,251    | 29,137,798     | 107,925  | 40,129,608     | 89,438,789     |
| 1931.....    | 5,826    | 20,008,005     | 33,877    | 29,541,844     | 83,383   | 41,362,027     | 90,911,876     |
| 1932.....    | 5,754    | 19,025,391     | 30,978    | 27,683,791     | 72,577   | 36,727,215     | 83,436,397     |
| 1933.....    | 6,323    | 20,865,151     | 28,725    | 24,318,372     | 64,388   | 31,088,962     | 76,272,485     |
| 1934.....    | 6,831    | 22,480,487     | 31,869    | 25,846,968     | 57,693   | 34,297,917     | 82,625,372     |

## Section 1.—Ocean Shipping.

Canadian ocean shipping dates back to the days of early European fishermen who frequented the shores of Newfoundland and the Maritime Provinces. Ocean-going vessels of that time were crude wooden sailing craft of but 20 or 30 tons burden, entrusted only to skilful and hardy mariners for navigation through little-known seas. Later on exploration and settlement produced a larger volume of traffic, but it was not until the building of ships in Canada by the French assumed some dimensions that traffic became important. The first ocean-going vessels in Canada were probably built by Pont-Gravé, one of the first settlers in New France, and soon afterwards Talon and Hocquart, intendants of the colony, realizing the advantages offered to the industry by the timber resources available, gave it every encouragement. Shipyards were established at Quebec and other points along the St. Lawrence, and these, together with later establishments in the Maritime Provinces and on the western coast, have formed the principal bases of Canadian shipping on the Atlantic and the Pacific.

Canadian shipping attained some prominence in the days of fast wooden sailing vessels, and also at a later date when steam power first came into use. In 1833 the *Royal William*, a Canadian ship built to ply between Quebec and Halifax,

crossed the Atlantic from Pictou to London, the first vessel to navigate the Atlantic under steam power. A few years later Samuel Cunard established the well-known steamship line of that name. His company pursued a conservative course; wooden ships were used long after iron hulls were a proven success, and paddle wheels after the introduction of the screw propeller. By 1867 the company's business had shifted to New York and its terminal was moved thither from Halifax. The Allan line had a somewhat similar early history but remained a purely Canadian company. In addition to other lines of less importance, both the C.P.R. and the Dominion Government operate fleets on the Atlantic and the Pacific oceans.

In the following tables statistics are given of sea-going vessels entered and cleared at Canadian ports during the fiscal years from 1911 to 1934 (Table 53); of the nationalities, tonnages of freight carried, and numbers of crews of vessels entered and cleared at Canadian ports in the fiscal years ended 1933 and 1934 (Table 54); of entrances and clearances of sea-going and all ships at principal ports (Table 59); and of the countries whence arrived and to which departed (Tables 55 and 55A). The numbers and particularly the tonnages of vessels entered and cleared at Canadian ports, in both ocean and coasting trade, indicate clearly the predominance of British and Canadian shipping over that of all other nations. This is particularly the case on the Atlantic coast, where the bulk of our European and South American trade is handled. The figures in Table 53 show a significant and fairly steady expansion in the total of ocean shipping through Canadian ports during the period since 1911.

**53.—Sea-Going Vessels Entered and Cleared at Canadian Ports with Cargo and in Ballast, fiscal years ended Mar. 31, 1911-34.**

NOTE.—For the years 1868-1910, see Canada Year Book, 1911, p. 379.

| Fiscal Year. | British. |                | Canadian. |                | Foreign. |                | Total Tonnage. |
|--------------|----------|----------------|-----------|----------------|----------|----------------|----------------|
|              | No.      | Tons Register. | No.       | Tons Register. | No.      | Tons Register. |                |
| 1911.....    | 6,870    | 12,712,337     | 10,607    | 3,341,998      | 12,467   | 6,242,851      | 22,297,186     |
| 1912.....    | 6,766    | 13,342,929     | 10,966    | 3,618,163      | 15,134   | 6,628,513      | 24,589,605     |
| 1913.....    | 7,307    | 13,896,353     | 11,810    | 4,530,835      | 16,549   | 7,803,910      | 26,231,098     |
| 1914.....    | 7,418    | 15,711,849     | 12,786    | 5,160,799      | 15,811   | 8,695,838      | 29,568,486     |
| 1915.....    | 6,949    | 13,931,091     | 11,903    | 4,005,011      | 15,060   | 7,466,484      | 25,402,586     |
| 1916.....    | 6,817    | 12,417,944     | 12,386    | 3,894,731      | 18,559   | 8,514,975      | 24,827,650     |
| 1917.....    | 7,387    | 16,144,873     | 12,241    | 4,343,448      | 18,500   | 8,778,753      | 29,267,074     |
| 1918.....    | 7,337    | 16,959,790     | 10,998    | 4,343,853      | 16,597   | 11,483,484     | 32,787,127     |
| 1919.....    | 6,099    | 14,054,166     | 11,115    | 3,758,528      | 15,132   | 7,448,699      | 25,261,393     |
| 1920.....    | 5,511    | 12,320,994     | 11,994    | 4,434,634      | 17,353   | 8,489,126      | 25,244,754     |
| 1921.....    | 4,526    | 10,545,619     | 12,490    | 5,510,494      | 17,624   | 8,860,626      | 24,916,729     |
| 1922.....    | 4,239    | 10,471,403     | 14,929    | 6,861,202      | 17,170   | 10,261,865     | 27,594,470     |
| 1923.....    | 4,869    | 13,868,905     | 16,693    | 7,463,809      | 17,493   | 12,945,623     | 34,278,337     |
| 1924.....    | 5,187    | 15,158,994     | 16,778    | 7,698,045      | 16,795   | 14,161,363     | 37,018,402     |
| 1925.....    | 5,763    | 16,463,204     | 17,779    | 7,966,193      | 17,314   | 16,551,629     | 40,981,026     |
| 1926.....    | 6,515    | 17,749,067     | 17,906    | 9,703,054      | 18,117   | 18,202,875     | 45,654,996     |
| 1927.....    | 6,448    | 18,117,525     | 16,746    | 8,926,138      | 19,111   | 19,106,106     | 46,149,769     |
| 1928.....    | 6,253    | 18,738,027     | 16,716    | 9,021,264      | 18,561   | 20,455,343     | 46,214,634     |
| 1929.....    | 6,400    | 21,625,660     | 18,005    | 9,235,036      | 21,021   | 23,547,831     | 54,408,527     |
| 1930.....    | 5,634    | 20,171,383     | 18,145    | 9,673,948      | 19,689   | 23,146,901     | 52,992,232     |
| 1931.....    | 5,826    | 20,008,005     | 17,865    | 11,707,129     | 17,906   | 22,885,015     | 54,600,149     |
| 1932.....    | 5,754    | 19,025,391     | 15,919    | 11,808,067     | 16,604   | 21,506,183     | 52,340,241     |
| 1933.....    | 6,323    | 20,865,151     | 13,864    | 9,041,203      | 15,741   | 19,860,478     | 49,766,832     |
| 1934.....    | 6,831    | 22,480,487     | 17,110    | 9,391,625      | 15,464   | 23,573,742     | 55,445,854     |

54.—Details, by Nationality, of Sea-Going Vessels (Exclusive of Coasting Vessels)  
Entered and Cleared at Canadian Ports, fiscal years ended Mar. 31, 1933 and 1934.

| Nationality.                 | Number<br>of<br>Vessels. | Tons<br>Register. | Freight.        |                           | Number<br>of<br>Crew. |
|------------------------------|--------------------------|-------------------|-----------------|---------------------------|-----------------------|
|                              |                          |                   | Tons<br>Weight. | Tons<br>Measure-<br>ment. |                       |
| 1933.                        |                          |                   |                 |                           |                       |
| ENTERED.                     |                          |                   |                 |                           |                       |
| British.....                 | 3,198                    | 10,895,693        | 2,528,188       | 156,712                   | 232,881               |
| Canadian.....                | 6,701                    | 4,282,278         | 1,192,741       | 44,133                    | 143,336               |
| Foreign.....                 | 7,879                    | 9,866,418         | 2,630,541       | 18,292                    | 221,326               |
| Totals.....                  | 17,778                   | 25,044,389        | 6,351,470       | 219,137                   | 597,543               |
| CLEARED.                     |                          |                   |                 |                           |                       |
| British.....                 | 3,125                    | 9,969,458         | 6,077,168       | 367,428                   | 215,168               |
| Canadian.....                | 7,163                    | 4,758,925         | 607,296         | 85,043                    | 163,057               |
| Foreign.....                 | 7,862                    | 9,994,060         | 4,312,338       | 353,321                   | 237,520               |
| Totals.....                  | 18,150                   | 24,722,443        | 10,996,802      | 805,792                   | 615,745               |
| TOTALS, ENTERED AND CLEARED. |                          |                   |                 |                           |                       |
| British.....                 | 6,323                    | 20,865,151        | 8,605,356       | 524,140                   | 448,049               |
| Canadian.....                | 13,864                   | 9,041,203         | 1,800,037       | 129,176                   | 306,393               |
| Foreign.....                 | 15,741                   | 19,860,478        | 6,942,879       | 371,613                   | 458,846               |
| Totals.....                  | 35,928                   | 49,766,832        | 17,348,272      | 1,024,929                 | 1,213,288             |
| 1934.                        |                          |                   |                 |                           |                       |
| ENTERED.                     |                          |                   |                 |                           |                       |
| British.....                 | 3,402                    | 11,434,099        | 2,940,392       | 156,866                   | 230,279               |
| Canadian.....                | 8,403                    | 4,729,813         | 1,481,969       | 21,448                    | 156,140               |
| Foreign.....                 | 7,696                    | 12,046,035        | 3,043,727       | 23,513                    | 255,472               |
| Totals.....                  | 19,501                   | 28,209,947        | 7,466,088       | 201,827                   | 641,891               |
| CLEARED.                     |                          |                   |                 |                           |                       |
| British.....                 | 3,429                    | 11,046,388        | 5,069,224       | 580,226                   | 216,721               |
| Canadian.....                | 8,707                    | 4,661,812         | 782,885         | 188,300                   | 139,534               |
| Foreign.....                 | 7,768                    | 11,527,707        | 4,044,783       | 551,455                   | 243,127               |
| Totals.....                  | 19,904                   | 27,235,907        | 9,896,892       | 1,319,981                 | 599,382               |
| TOTALS, ENTERED AND CLEARED. |                          |                   |                 |                           |                       |
| British.....                 | 6,831                    | 22,480,487        | 8,009,616       | 737,092                   | 447,000               |
| Canadian.....                | 17,110                   | 9,391,625         | 2,264,854       | 209,748                   | 295,674               |
| Foreign.....                 | 15,464                   | 23,573,742        | 7,088,510       | 574,968                   | 498,599               |
| Totals.....                  | 39,405                   | 55,445,854        | 17,362,980      | 1,521,808                 | 1,241,273             |

**55.—Sea-Going Vessels Entered and Cleared, by Principal Countries, fiscal year ended Mar. 31, 1933.**

| Country.                           | British.        |                   |                | Canadian.       |                  |                | Foreign.        |                  |                |
|------------------------------------|-----------------|-------------------|----------------|-----------------|------------------|----------------|-----------------|------------------|----------------|
|                                    | No. of Vessels. | Tons Register.    | Crew, No.      | No. of Vessels. | Tons Register.   | Crew, No.      | No. of Vessels. | Tons Register.   | Crew, No.      |
| <b>Vessels Entered.</b>            |                 |                   |                |                 |                  |                |                 |                  |                |
| Where Arrived—                     |                 |                   |                |                 |                  |                |                 |                  |                |
| Great Britain.....                 | 1,103           | 5,677,022         | 118,268        | 16              | 50,783           | 854            | 243             | 434,953          | 6,002          |
| Australia.....                     | 44              | 276,558           | 6,161          | 20              | 75,107           | 817            | 7               | 24,502           | 253            |
| British South Africa.....          | 26              | 104,100           | 1,250          | —               | —                | —              | 14              | 48,082           | 478            |
| British West Indies.....           | 41              | 62,325            | 1,150          | 158             | 483,224          | 10,000         | 130             | 211,097          | 4,425          |
| Newfoundland.....                  | 658             | 434,648           | 15,858         | 220             | 127,926          | 4,362          | 80              | 58,187           | 1,301          |
| New Zealand.....                   | 5               | 44,212            | 1,150          | 2               | 6,520            | 77             | 1               | 3,524            | 35             |
| Hong Kong.....                     | 32              | 306,947           | 9,051          | 1               | 8,789            | 497            | 7               | 44,090           | 867            |
| Other Br. possessions.....         | 41              | 141,408           | 2,316          | 1               | 1,460            | 23             | 8               | 29,349           | 362            |
| Argentina.....                     | 1               | 3,566             | 86             | —               | —                | —              | 18              | 61,670           | 597            |
| Belgium.....                       | 63              | 427,051           | 8,524          | —               | —                | —              | 41              | 135,836          | 1,635          |
| China.....                         | 57              | 310,222           | 7,080          | 17              | 81,209           | 2,643          | 33              | 170,923          | 2,817          |
| Colombia.....                      | —               | —                 | —              | 20              | 118,279          | 870            | 1               | 5,101            | 36             |
| Cuba.....                          | —               | —                 | —              | —               | —                | —              | 12              | 23,244           | 320            |
| Denmark.....                       | —               | —                 | —              | —               | —                | —              | 32              | 174,993          | 3,933          |
| France.....                        | 7               | 36,010            | 552            | —               | —                | —              | 41              | 139,891          | 2,040          |
| Germany.....                       | 24              | 183,523           | 4,188          | —               | —                | —              | 82              | 286,059          | 7,167          |
| Holland.....                       | 36              | 174,486           | 1,805          | —               | —                | —              | 95              | 397,568          | 4,735          |
| Italy.....                         | 12              | 38,943            | 408            | —               | —                | —              | 42              | 172,489          | 1,950          |
| Japan.....                         | 33              | 191,509           | 4,449          | 25              | 183,696          | 9,438          | 175             | 798,224          | 11,663         |
| Mexico.....                        | 8               | 26,645            | 309            | 9               | 457              | 53             | 2               | 5,525            | 58             |
| Norway.....                        | 1               | 2,997             | 36             | —               | —                | —              | 35              | 85,248           | 1,011          |
| Peru.....                          | 8               | 32,661            | 301            | 14              | 70,538           | 584            | 3               | 15,719           | 108            |
| St. Pierre and Miquelon.....       | 246             | 34,403            | 2,549          | 56              | 7,106            | 492            | 22              | 15,409           | 445            |
| Spain.....                         | —               | —                 | —              | —               | —                | —              | 10              | 10,372           | 188            |
| Sweden.....                        | —               | —                 | —              | —               | —                | —              | 55              | 168,515          | 3,596          |
| United States.....                 | 471             | 2,230,646         | 42,339         | 4,555           | 2,940,458        | 97,301         | 5,218           | 6,096,995        | 148,119        |
| Sea Fisheries.....                 | 163             | 8,830             | 1,999          | 1,525           | 65,740           | 14,553         | 1,399           | 64,006           | 15,051         |
| From Sea.....                      | 79              | 16,790            | 1,581          | 50              | 5,962            | 322            | 15              | 9,090            | 262            |
| <b>Totals, Entered<sup>1</sup></b> | <b>3,198</b>    | <b>10,895,693</b> | <b>232,881</b> | <b>6,701</b>    | <b>4,282,278</b> | <b>143,336</b> | <b>7,879</b>    | <b>9,866,418</b> | <b>221,326</b> |
| <b>Vessels Cleared.</b>            |                 |                   |                |                 |                  |                |                 |                  |                |
| To which Departed—                 |                 |                   |                |                 |                  |                |                 |                  |                |
| Great Britain.....                 | 1,082           | 5,469,047         | 109,878        | 19              | 60,961           | 813            | 317             | 749,514          | 9,026          |
| Australia.....                     | 52              | 313,857           | 6,554          | 8               | 29,770           | 329            | 43              | 141,473          | 1,527          |
| Hong Kong.....                     | 28              | 280,617           | 8,677          | 8               | 70,688           | 4,054          | 6               | 25,489           | 224            |
| British South Africa.....          | 16              | 59,221            | 880            | —               | —                | —              | 6               | 20,192           | 242            |
| British Guiana.....                | —               | —                 | —              | 61              | 229,872          | 4,741          | 17              | 21,965           | 393            |
| British West Indies.....           | 42              | 105,642           | 3,575          | 143             | 421,051          | 9,012          | 115             | 201,860          | 3,170          |
| Newfoundland.....                  | 733             | 415,948           | 15,836         | 231             | 132,621          | 4,776          | 100             | 69,061           | 1,617          |
| New Zealand.....                   | 6               | 53,581            | 1,200          | 10              | 36,433           | 422            | 1               | 2,394            | 27             |
| Other Br. Possessions.....         | 31              | 113,085           | 1,911          | 2               | 6,299            | 51             | 39              | 128,034          | 1,560          |
| Argentina.....                     | 5               | 14,107            | 300            | —               | —                | —              | 42              | 127,545          | 1,319          |
| Belgium.....                       | 53              | 187,194           | 2,126          | —               | —                | —              | 53              | 144,438          | 1,894          |
| China.....                         | 56              | 281,489           | 5,300          | 23              | 102,364          | 2,617          | 43              | 185,489          | 2,658          |
| Colombia.....                      | —               | —                 | —              | 15              | 91,982           | 653            | 2               | 5,021            | 67             |
| Cuba.....                          | 6               | 11,111            | 163            | —               | —                | —              | 24              | 40,553           | 920            |
| Denmark.....                       | 1               | 2,522             | 28             | —               | —                | —              | 54              | 208,189          | 5,264          |
| France.....                        | 25              | 156,648           | 3,783          | 1               | 504              | 22             | 127             | 357,450          | 4,776          |
| Germany.....                       | 12              | 43,291            | 514            | —               | —                | —              | 67              | 277,721          | 3,898          |
| Greece.....                        | 3               | 7,636             | 94             | —               | —                | —              | 3               | 7,071            | 77             |
| Holland.....                       | 76              | 227,625           | 2,558          | —               | —                | —              | 64              | 213,048          | 3,223          |
| Italy.....                         | 10              | 28,805            | 309            | —               | —                | —              | 34              | 132,904          | 1,511          |
| Japan.....                         | 11              | 114,055           | 3,723          | 20              | 176,956          | 8,458          | 242             | 1,097,883        | 15,179         |
| Mexico.....                        | 4               | 6,921             | 114            | 22              | 852              | 120            | 4               | 13,080           | 117            |
| Norway.....                        | —               | —                 | —              | —               | —                | —              | 19              | 55,992           | 804            |
| Peru.....                          | —               | —                 | —              | 6               | 29,986           | 252            | 14              | 50,530           | 522            |
| St. Pierre and Miquelon.....       | 248             | 67,547            | 3,328          | 59              | 14,189           | 687            | 42              | 32,352           | 784            |
| Spain.....                         | 5               | 14,972            | 166            | —               | —                | —              | 5               | 4,309            | 89             |
| Sweden.....                        | —               | —                 | —              | —               | —                | —              | 59              | 254,202          | 6,862          |
| United States.....                 | 411             | 1,908,656         | 39,961         | 4,736           | 3,198,855        | 109,579        | 4,886           | 5,225,311        | 152,204        |
| Sea Fisheries.....                 | 171             | 9,610             | 2,288          | 1,743           | 72,758           | 15,674         | 1,186           | 64,738           | 15,176         |
| For Sea.....                       | 20              | 13,392            | 1,200          | 35              | 1,092            | 201            | 207             | 7,775            | 1,108          |
| <b>Totals, Cleared<sup>1</sup></b> | <b>3,125</b>    | <b>9,969,458</b>  | <b>215,168</b> | <b>7,163</b>    | <b>4,758,925</b> | <b>163,057</b> | <b>7,862</b>    | <b>9,994,060</b> | <b>237,520</b> |

<sup>1</sup>Totals include other countries not specified.



## 55A.—Sea-Going Vessels Entered and Cleared, by Principal Countries, fiscal year ended Mar. 31, 1934.

| Country.                                | British.        |                   |                | Canadian.       |                  |                | Foreign.        |                   |                |
|-----------------------------------------|-----------------|-------------------|----------------|-----------------|------------------|----------------|-----------------|-------------------|----------------|
|                                         | No. of Vessels. | Tons Register.    | Crew, No.      | No. of Vessels. | Tons Register.   | Crew, No.      | No. of Vessels. | Tons Register.    | Crew, No.      |
| <b>Vessels Entered.</b>                 |                 |                   |                |                 |                  |                |                 |                   |                |
| Whence Arrived—                         |                 |                   |                |                 |                  |                |                 |                   |                |
| Great Britain.....                      | 1,315           | 6,263,000         | 121,369        | 26              | 84,498           | 940            | 268             | 533,609           | 6,964          |
| Australia.....                          | 41              | 253,118           | 5,535          | 19              | 68,382           | 776            | 14              | 47,424            | 512            |
| British South Africa.....               | 21              | 76,268            | 979            | —               | —                | —              | —               | —                 | —              |
| British West Indies.....                | 38              | 48,574            | 658            | 142             | 495,344          | 9,523          | 131             | 222,276           | 3,980          |
| Hong Kong.....                          | 35              | 317,501           | 8,964          | 8               | 65,518           | 3,517          | 1               | 3,163             | 35             |
| Newfoundland.....                       | 595             | 368,314           | 12,773         | 238             | 168,386          | 5,588          | 92              | 77,347            | 1,660          |
| New Zealand.....                        | 5               | 47,363            | 1,205          | 1               | 3,342            | 42             | 2               | 3,625             | 35             |
| Other Br. possessions.....              | 63              | 226,731           | 3,632          | —               | —                | —              | 14              | 54,875            | 749            |
| Argentina.....                          | 4               | 10,634            | 128            | —               | —                | —              | 37              | 115,453           | 1,178          |
| Belgium.....                            | 56              | 430,609           | 8,452          | —               | —                | —              | 41              | 117,508           | 1,629          |
| China.....                              | 49              | 263,888           | 5,439          | 34              | 157,149          | 4,804          | 46              | 218,642           | 3,372          |
| Colombia.....                           | 3               | 27,546            | 131            | 22              | 130,955          | 1,057          | 3               | 17,161            | 122            |
| Cuba.....                               | 3               | 5,741             | 74             | 1               | 654              | —              | 19              | 27,214            | 405            |
| Denmark.....                            | —               | —                 | —              | —               | —                | —              | 29              | 123,310           | 1,955          |
| France.....                             | 4               | 10,877            | 141            | —               | —                | —              | 41              | 124,151           | 1,787          |
| Germany.....                            | 12              | 82,299            | 1,580          | —               | —                | —              | 86              | 353,694           | 6,172          |
| Italy.....                              | 2               | 7,643             | 87             | —               | —                | —              | 36              | 139,655           | 1,694          |
| Japan.....                              | 63              | 291,999           | 5,855          | 20              | 134,053          | 6,344          | 234             | 1,033,292         | 13,636         |
| Mexico.....                             | 3               | 6,998             | 81             | 6               | 317              | 32             | 2               | 3,634             | 68             |
| Netherlands.....                        | 31              | 156,372           | 1,591          | —               | —                | —              | 97              | 393,423           | 3,966          |
| Norway.....                             | —               | —                 | —              | —               | —                | —              | 77              | 156,974           | 2,540          |
| Peru.....                               | 4               | 36,728            | 176            | 20              | 104,769          | 837            | 7               | 39,402            | 269            |
| Spain.....                              | —               | —                 | —              | —               | —                | —              | 16              | 22,413            | 345            |
| St. Pierre and Miquelon.....            | 160             | 21,357            | 1,640          | 42              | 20,962           | 764            | 17              | 11,620            | 464            |
| Sweden.....                             | —               | —                 | —              | —               | —                | —              | 61              | 173,602           | 3,489          |
| United States.....                      | 560             | 2,358,293         | 45,173         | 6,132           | 3,114,835        | 103,565        | 4,844           | 7,692,961         | 174,425        |
| Sea Fisheries.....                      | 140             | 7,531             | 1,546          | 1,621           | 71,994           | 17,196         | 1,398           | 86,814            | 20,567         |
| From Sea.....                           | 165             | 18,411            | 1,820          | 48              | 7,040            | 346            | 3               | 3,684             | 229            |
| <b>Totals, Entered<sup>1</sup>.....</b> | <b>3,402</b>    | <b>11,434,099</b> | <b>230,279</b> | <b>8,403</b>    | <b>4,729,813</b> | <b>156,141</b> | <b>7,696</b>    | <b>12,046,035</b> | <b>255,472</b> |
| <b>Vessels Cleared.</b>                 |                 |                   |                |                 |                  |                |                 |                   |                |
| To which Departed—                      |                 |                   |                |                 |                  |                |                 |                   |                |
| Great Britain.....                      | 1,342           | 6,393,534         | 115,306        | 27              | 87,849           | 1,013          | 569             | 1,421,888         | 16,759         |
| Australia.....                          | 56              | 306,543           | 6,265          | 30              | 105,861          | 1,245          | 78              | 253,252           | 2,802          |
| British South Africa.....               | 32              | 122,072           | 1,646          | —               | —                | —              | 17              | 56,397            | 652            |
| British Guiana.....                     | 1               | 65                | 8              | 54              | 229,300          | 4,474          | 22              | 32,261            | 515            |
| British India.....                      | 19              | 68,009            | 1,177          | —               | —                | —              | 8               | 32,108            | 365            |
| British West Indies.....                | 38              | 37,891            | 545            | 132             | 407,638          | 8,723          | 126             | 215,674           | 3,314          |
| Hong Kong.....                          | 30              | 281,712           | 8,195          | 10              | 88,360           | 4,968          | 5               | 22,894            | 186            |
| Newfoundland.....                       | 716             | 384,355           | 13,434         | 250             | 135,817          | 4,919          | 114             | 110,657           | 2,173          |
| New Zealand.....                        | 9               | 60,165            | 1,374          | 4               | 15,497           | 156            | 1               | 2,506             | 26             |
| Other Br. possessions.....              | 23              | 76,999            | 1,011          | —               | —                | —              | 55              | 182,503           | 2,049          |
| Argentina.....                          | 5               | 14,319            | 173            | —               | —                | —              | 30              | 81,464            | 892            |
| Belgium.....                            | 28              | 94,082            | 1,062          | 1               | 797              | 19             | 57              | 138,484           | 1,962          |
| China.....                              | 71              | 338,566           | 6,373          | 43              | 163,880          | 2,625          | 56              | 280,032           | 3,635          |
| Colombia.....                           | 2               | 18,364            | 88             | 23              | 137,683          | 998            | 1               | 5,978             | 40             |
| Denmark.....                            | —               | —                 | —              | —               | —                | —              | 42              | 160,477           | 4,307          |
| France.....                             | 17              | 127,023           | 3,232          | —               | —                | —              | 126             | 384,278           | 4,728          |
| Germany.....                            | 13              | 55,325            | 780            | —               | —                | —              | 81              | 274,886           | 3,972          |
| Italy.....                              | 1               | 1,968             | 26             | —               | —                | —              | 33              | 112,669           | 1,253          |
| Japan.....                              | 20              | 132,059           | 3,232          | 17              | 144,995          | 6,995          | 277             | 1,290,171         | 16,946         |
| Mexico.....                             | 6               | 18,623            | 158            | 7               | 2,125            | 55             | 5               | 14,824            | 142            |
| Netherlands.....                        | 32              | 92,297            | 1,053          | —               | —                | —              | 74              | 200,563           | 2,559          |
| Norway.....                             | —               | —                 | —              | —               | —                | —              | 31              | 83,373            | 1,598          |
| Peru.....                               | —               | —                 | —              | 15              | 95,551           | 640            | 17              | 49,766            | 563            |
| St. Pierre and Miquelon.....            | 221             | 102,039           | 4,037          | 60              | 41,673           | 1,350          | 17              | 12,547            | 284            |
| Sweden.....                             | —               | —                 | —              | —               | —                | —              | 29              | 148,148           | 4,053          |
| United States.....                      | 517             | 2,188,439         | 43,214         | 6,203           | 2,840,385        | 84,654         | 4,408           | 5,761,192         | 141,784        |
| Sea Fisheries.....                      | 173             | 10,342            | 2,141          | 1,791           | 78,338           | 15,953         | 1,364           | 95,520            | 22,569         |
| For Sea.....                            | 26              | 11,765            | 1,035          | 19              | 325              | 71             | 64              | 14,419            | 954            |
| <b>Totals, Cleared<sup>1</sup>.....</b> | <b>3,429</b>    | <b>11,046,388</b> | <b>216,721</b> | <b>8,707</b>    | <b>4,661,812</b> | <b>139,534</b> | <b>7,768</b>    | <b>11,527,707</b> | <b>243,127</b> |

<sup>1</sup>Totals include other countries not specified.

## Section 2.—Inland Shipping.

Inland shipping is associated in its beginning with the birch-bark canoe of the American Indian. The advantages of this light and easily navigable boat were realized by explorers and fur traders, and for many years it was in general use, giving way to more substantial craft only with the demands of heavier traffic. The *bateau* and Durham boat came into common use after the migration of the U.E. Loyalists but soon gave place to larger vessels on the St. Lawrence and the other main highways of the time. Original plans of the Lachine canal, calling for a width of 12 feet and a depth of 18 inches, afford an illustration of the size of these primitive craft.

In the absence of any roads to make land travel possible, the St. Lawrence river and the Great Lakes formed the main highway to the interior. The route from Montreal to the Upper Lakes was broken at three places—from Montreal to Kingston transportation was by *bateau* or Durham boat, from Kingston to Queenston schooners were used, then there was the portage road from Queenston to Chippawa and, finally, schooner again to the destination. The charge for transporting a barrel of rum from Montreal to Kingston was from \$3 to \$3.50, and freight charges on other goods were proportions of this standard rate.

In 1809, the *Accommodation*, the first Canadian steamship, was built for the Hon. John Molson, to run between Montreal and Quebec. By 1818 Molson had formed a company, the St. Lawrence Steamship Co. or the Molson Line. On lake Ontario, the *Frontenac* was used from 1817 on a weekly service between York and Prescott and, following this beginning, came a period of great activity in lake and river shipping. In 1845, the *Gore* reached lake Huron by way of the Welland canal to carry on transport trade on the Upper Lakes, where previously there had not been enough traffic to support a large ship. Shipping on the Upper Lakes became brisker now, for there were settlers to be carried from Buffalo to the western United States and grain to be brought back. In this period Canadian shipping made its profit by carrying United States goods, for there was little traffic originating in the Canadian near-West.

Upon the advent of steam railways, water-borne traffic did not decrease but, on the contrary, increased, and at present the greater part of the western grain is shipped *via* the Great Lakes route to eastern ports. The iron ore and coal traffic between lake Superior and lake Erie ranges between 60 and 80 million short tons per annum; the total traffic on these upper lakes alone is greater than that carried by all Canadian railways and about one-twelfth of that carried by all United States railways.

**Inland International Shipping.**—Statistics of the inland international shipping between Canadian and United States ports for the fiscal years ended Mar. 31, 1930-34, exclusive of ferriage, are given in Table 56. The total tonnages of inland international shipping entered and cleared in the fiscal years 1926-34 were as follows: 1926, 29,591,831; 1927, 31,181,890; 1928, 35,589,163; 1929, 39,326,700; 1930, 36,446,557; 1931, 36,311,727; 1932, 31,096,156; 1933, 26,505,653; 1934, 27,179,518.

**56.—Canadian and United States Shipping on Rivers and Lakes between Canadian and United States Ports, Exclusive of Ferriage, fiscal years ended Mar. 31, 1930-34.**

| Item.                    | 1930.      | 1931.     | 1932.     | 1933.     | 1934.     |
|--------------------------|------------|-----------|-----------|-----------|-----------|
| <b>Vessels Arrived—</b>  |            |           |           |           |           |
| Canadian—                |            |           |           |           |           |
| Steam and motor.....No.  | 9,285      | 7,294     | 6,984     | 6,987     | 6,985     |
| Tons register.....       | 9,183,401  | 8,666,392 | 7,504,571 | 7,048,168 | 7,290,930 |
| Number of crew.....      | 271,221    | 236,566   | 206,243   | 182,836   | 181,472   |
| Sail.....No.             | 1,276      | 519       | 210       | 126       | 142       |
| Tons register.....       | 72,227     | 64,877    | 64,468    | 45,468    | 54,081    |
| Number of crew.....      | 2,080      | 1,232     | 895       | 440       | 664       |
| United States—           |            |           |           |           |           |
| Steam and motor.....No.  | 42,989     | 32,229    | 27,823    | 24,254    | 21,033    |
| Tons register.....       | 8,010,012  | 8,783,219 | 7,515,197 | 5,540,399 | 5,251,453 |
| Number of crew.....      | 261,251    | 261,605   | 221,906   | 163,351   | 146,419   |
| Sail.....No.             | 1,192      | 621       | 247       | 184       | 168       |
| Tons register.....       | 284,945    | 255,202   | 131,977   | 80,019    | 122,102   |
| Number of crew.....      | 2,758      | 1,964     | 904       | 545       | 588       |
| Description of Vessels—  |            |           |           |           |           |
| Steam, screw.....No.     | 39,806     | 29,740    | 25,393    | 22,031    | 21,029    |
| Steam, paddle....."      | 1,630      | 1,497     | 1,309     | 928       | 897       |
| Steam, sternwheel....."  | 9          | 9         | 9         | 9         | 10        |
| Motor....."              | 10,829     | 8,277     | 8,091     | 8,273     | 6,082     |
| Sail....."               | 43         | 257       | 70        | 42        | 37        |
| Sail, barges....."       | 2,425      | 883       | 387       | 268       | 273       |
| <b>Vessels Departed—</b> |            |           |           |           |           |
| Canadian—                |            |           |           |           |           |
| Steam and motor.....No.  | 9,894      | 7,684     | 7,645     | 7,630     | 7,458     |
| Tons register.....       | 10,133,814 | 9,015,359 | 8,242,689 | 8,133,175 | 9,062,316 |
| Number of crew.....      | 283,083    | 240,683   | 215,660   | 203,873   | 191,422   |
| Sail.....No.             | 1,651      | 515       | 220       | 118       | 174       |
| Tons register.....       | 74,408     | 88,087    | 63,396    | 50,358    | 48,016    |
| Number of crew.....      | 2,496      | 1,370     | 944       | 478       | 718       |
| United States—           |            |           |           |           |           |
| Steam and motor.....No.  | 42,807     | 31,945    | 27,653    | 24,031    | 20,841    |
| Tons register.....       | 8,389,248  | 9,203,669 | 7,434,814 | 5,530,230 | 5,226,410 |
| Number of crew.....      | 263,265    | 259,674   | 220,222   | 159,963   | 144,889   |
| Sail.....No.             | 1,248      | 682       | 250       | 178       | 187       |
| Tons register.....       | 298,502    | 234,922   | 139,044   | 77,836    | 124,210   |
| Number of crew.....      | 2,932      | 2,027     | 895       | 551       | 662       |
| Description of Vessels—  |            |           |           |           |           |
| Steam, screw.....No.     | 40,194     | 30,018    | 25,922    | 22,492    | 21,394    |
| Steam, paddle....."      | 1,715      | 1,484     | 1,291     | 922       | 884       |
| Steam, sternwheel....."  | 9          | 9         | 8         | 8         | 9         |
| Motor....."              | 10,783     | 8,113     | 8,077     | 8,239     | 6,012     |
| Sail....."               | 36         | 32        | 57        | 35        | 37        |
| Sail, barges....."       | 2,863      | 1,165     | 413       | 261       | 324       |

### Section 3.—Coasting Trade.

Statistics of the arrivals and departures of the vessels engaged in the coasting trade of Canada, whether on the sea or the Great Lakes and international rivers, are given for the latest five years in Table 57. These statistics do not include vessels plying on inland waterways inaccessible to international shipping nor do they include ferry services between one Canadian port and another.

57.—British and Foreign Vessels Employed in the Coasting Trade of Canada, fiscal years ended Mar. 31, 1930-34.

| Item.                                        | 1930.      | 1931.      | 1932.      | 1933.      | 1934.      |
|----------------------------------------------|------------|------------|------------|------------|------------|
| <b>Vessels Arrived—</b>                      |            |            |            |            |            |
| British—                                     |            |            |            |            |            |
| Steam and motor.....No.                      | 74,170     | 71,076     | 64,743     | 60,179     | 62,000     |
| Tons register.....                           | 39,332,171 | 43,444,698 | 41,697,387 | 39,573,451 | 39,518,815 |
| Number of crew.....                          | 1,552,640  | 1,567,482  | 1,416,113  | 1,283,451  | 1,222,740  |
| Sail.....No.                                 | 7,364      | 5,828      | 4,477      | 4,029      | 4,159      |
| Tons register.....                           | 3,555,731  | 2,876,756  | 2,405,395  | 1,785,018  | 1,595,779  |
| Number of crew.....                          | 31,558     | 25,494     | 21,205     | 17,191     | 16,880     |
| Foreign—                                     |            |            |            |            |            |
| Steam and motor.....No.                      | 596        | 528        | 625        | 632        | 695        |
| Tons register.....                           | 763,632    | 796,098    | 802,634    | 614,341    | 801,456    |
| Number of crew.....                          | 13,746     | 12,593     | 12,690     | 12,350     | 15,122     |
| Sail.....No.                                 | 75         | 75         | 30         | 35         | 61         |
| Tons register.....                           | 15,332     | 17,100     | 7,556      | 2,583      | 7,493      |
| Number of crew.....                          | 309        | 399        | 111        | 141        | 313        |
| Description of Vessels—                      |            |            |            |            |            |
| Steam, screw.....No.                         | 61,246     | 58,083     | 52,046     | 48,301     | 49,173     |
| Steam, paddle....."                          | 2,292      | 1,750      | 1,519      | 1,106      | 962        |
| Steam, sternwheel....."                      | 272        | 176        | 164        | 74         | 75         |
| Motor....."                                  | 10,956     | 11,595     | 11,639     | 11,330     | 12,485     |
| Sail, ships....."                            | 3,204      | 2,565      | 1,958      | 2,096      | 1,986      |
| Sail, barks....."                            |            |            |            |            |            |
| Sail, brigantines....."                      |            |            |            |            |            |
| Sail, schooners....."                        |            |            |            |            |            |
| Sail, sloops, barges, canal boats, etc....." | 4,235      | 3,338      | 2,549      | 1,968      | 2,234      |
| <b>Vessels Departed—</b>                     |            |            |            |            |            |
| British—                                     |            |            |            |            |            |
| Steam and motor.....No.                      | 74,323     | 71,053     | 64,907     | 60,041     | 62,024     |
| Tons register.....                           | 39,653,349 | 43,813,306 | 42,010,810 | 38,694,839 | 39,333,472 |
| Number of crew.....                          | 1,556,378  | 1,611,737  | 1,449,780  | 1,259,895  | 1,220,956  |
| Sail.....No.                                 | 7,195      | 5,639      | 4,541      | 3,989      | 4,166      |
| Tons register.....                           | 3,591,010  | 2,896,156  | 2,416,761  | 1,634,733  | 1,601,356  |
| Number of crew.....                          | 30,708     | 24,759     | 21,847     | 16,466     | 15,937     |
| Foreign—                                     |            |            |            |            |            |
| Steam and motor.....No.                      | 600        | 585        | 626        | 634        | 671        |
| Tons register.....                           | 808,220    | 816,330    | 875,335    | 718,928    | 901,907    |
| Number of crew.....                          | 12,915     | 14,042     | 13,900     | 11,996     | 17,109     |
| Sail.....No.                                 | 79         | 72         | 38         | 24         | 34         |
| Tons register.....                           | 15,328     | 14,763     | 8,993      | 2,288      | 6,515      |
| Number of crew.....                          | 284        | 310        | 103        | 63         | 153        |
| Description of Vessels—                      |            |            |            |            |            |
| Steam, screw.....No.                         | 61,214     | 58,176     | 51,979     | 48,134     | 48,866     |
| Steam, paddle....."                          | 2,230      | 1,656      | 1,502      | 1,055      | 971        |
| Steam, sternwheel....."                      | 323        | 176        | 164        | 75         | 75         |
| Motor....."                                  | 11,156     | 11,635     | 11,588     | 11,411     | 12,783     |
| Sail, ships....."                            | 2,948      | 2,368      | 2,024      | 2,050      | 1,934      |
| Sail, barks....."                            |            |            |            |            |            |
| Sail, brigantines....."                      |            |            |            |            |            |
| Sail, schooners....."                        |            |            |            |            |            |
| Sail, sloops, barges, canal boats, etc....." | 4,326      | 3,343      | 2,555      | 1,963      | 2,266      |

## Section 4.—Grand Total Shipping Trade.

Statistics are given in Table 58 showing sea-going, inland international, coastwise and total vessels entered and cleared at Canadian ports, by provinces, during the fiscal years ended Mar. 31, 1933 and 1934, and totals for the fiscal years 1923 to 1934. It is noteworthy in this table that the volume of coastwise shipping is the greatest, while sea-going is next in tonnage. In the period from 1923 to 1929, both sea-going and coastwise shipping showed marked expansion, but in recent



years there has been some decline. Inland international shipping, on the other hand, has varied considerably from year to year without showing any definite trend. It is, however, significant of the importance of water-borne traffic on the inland rivers and lakes that the total tonnage of shipping entered and cleared was greater for Ontario than for any other province in the fiscal year ended 1930 and in the latest year, as in 1933, was only slightly below that of British Columbia. This was due to the fact that the great bulk of the inland international shipping was through Ontario ports, while there was also a large tonnage of coasting trade through these ports. Quebec came third in total shipping in 1934, followed by Nova Scotia and New Brunswick.

**58.—Totals of Numbers and Tonnages of All Vessels Entered and Cleared at Canadian Ports, Exclusive of Ferriage, 1923-34, With Details by Provinces for the fiscal years ended Mar. 31, 1933 and 1934.**

| Province.                 | Sea-Going.    |                   |               |                   | Coastwise.    |                   |               |                   |
|---------------------------|---------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|-------------------|
|                           | Arrived.      |                   | Departed.     |                   | Arrived.      |                   | Departed.     |                   |
|                           | Ves-<br>sels. | Tons<br>Register. | Ves-<br>sels. | Tons<br>Register. | Ves-<br>sels. | Tons<br>Register. | Ves-<br>sels. | Tons<br>Register. |
| <b>Totals, 1923</b> ..... | 19,462        | 17,095,883        | 19,593        | 17,182,454        | 82,560        | 36,240,041        | 80,033        | 34,730,037        |
| <b>Totals, 1924</b> ..... | 19,261        | 18,497,025        | 19,499        | 18,521,377        | 88,035        | 39,268,712        | 84,762        | 38,096,416        |
| <b>Totals, 1925</b> ..... | 20,436        | 20,470,379        | 20,420        | 20,510,647        | 87,185        | 40,480,372        | 87,091        | 40,139,447        |
| <b>Totals, 1926</b> ..... | 21,185        | 22,837,720        | 21,353        | 22,817,276        | 88,693        | 41,770,480        | 87,878        | 41,117,175        |
| <b>Totals, 1927</b> ..... | 21,382        | 23,224,281        | 20,923        | 22,925,488        | 92,222        | 43,124,919        | 90,814        | 42,617,467        |
| <b>Totals, 1928</b> ..... | 20,903        | 24,240,847        | 20,627        | 23,973,787        | 94,981        | 45,381,586        | 94,714        | 44,146,030        |
| <b>Totals, 1929</b> ..... | 22,531        | 27,464,158        | 22,895        | 26,944,369        | 95,047        | 49,046,588        | 93,905        | 48,007,097        |
| <b>Totals, 1930</b> ..... | 21,583        | 27,155,766        | 21,885        | 25,836,466        | 82,205        | 43,666,866        | 82,197        | 44,067,907        |
| <b>Totals, 1931</b> ..... | 20,737        | 28,064,762        | 20,860        | 26,535,387        | 77,507        | 47,134,652        | 77,354        | 47,540,555        |
| <b>Totals, 1932</b> ..... | 19,175        | 27,003,210        | 19,102        | 25,337,031        | 69,875        | 44,912,972        | 70,112        | 45,311,899        |
| 1933.                     |               |                   |               |                   |               |                   |               |                   |
| Prince Edward Island..... | 104           | 70,302            | 162           | 106,963           | 927           | 307,846           | 880           | 275,165           |
| Nova Scotia.....          | 4,040         | 4,698,358         | 4,462         | 5,055,203         | 12,692        | 3,468,054         | 12,566        | 2,702,487         |
| New Brunswick.....        | 3,805         | 1,718,471         | 3,741         | 1,711,596         | 3,025         | 1,110,038         | 3,100         | 1,133,115         |
| Quebec.....               | 1,577         | 6,021,612         | 1,497         | 5,212,910         | 9,079         | 8,154,741         | 8,949         | 8,738,650         |
| Ontario.....              | —             | —                 | 16            | 11,596            | 13,105        | 14,579,205        | 12,795        | 13,830,429        |
| Manitoba.....             | 10            | 47,445            | 10            | 47,445            | 3             | 161               | 3             | 161               |
| British Columbia.....     | 8,242         | 12,488,201        | 8,262         | 12,576,730        | 25,965        | 14,300,441        | 26,313        | 14,364,282        |
| Yukon.....                | —             | —                 | —             | —                 | 79            | 54,907            | 82            | 56,499            |
| <b>Totals, 1933</b> ..... | 17,778        | 25,044,389        | 18,150        | 24,722,443        | 64,875        | 41,975,393        | 64,688        | 41,100,788        |
| 1934.                     |               |                   |               |                   |               |                   |               |                   |
| Prince Edward Island..... | 105           | 84,661            | 132           | 123,535           | 1,046         | 356,051           | 1,013         | 309,719           |
| Nova Scotia.....          | 4,469         | 4,987,610         | 4,975         | 5,405,892         | 11,694        | 4,061,037         | 11,549        | 3,441,342         |
| New Brunswick.....        | 5,164         | 1,880,462         | 5,226         | 1,959,437         | 3,526         | 1,250,666         | 3,478         | 1,205,805         |
| Quebec.....               | 1,651         | 6,216,136         | 1,519         | 5,400,847         | 10,300        | 8,799,241         | 10,340        | 9,516,904         |
| Ontario.....              | 1             | 872               | 5             | 3,714             | 13,139        | 14,060,264        | 12,782        | 13,637,626        |
| Manitoba.....             | 10            | 31,587            | 10            | 31,587            | 7             | 2,203             | 7             | 2,203             |
| British Columbia.....     | 8,101         | 15,008,619        | 8,037         | 14,310,895        | 27,117        | 13,335,730        | 27,639        | 13,671,312        |
| Yukon.....                | —             | —                 | —             | —                 | 86            | 58,351            | 87            | 58,339            |
| <b>Totals, 1934</b> ..... | 19,501        | 28,209,947        | 19,904        | 27,235,907        | 66,915        | 41,923,543        | 66,895        | 41,843,250        |

58.—Totals of Numbers and Tonnages of All Vessels Entered and Cleared at Canadian Ports, Exclusive of Ferriage, 1923-34, with Details by Provinces for the fiscal years ended Mar. 31, 1933 and 1934—concluded.

| Province.                 | Inland International. |                |           |                | Totals.   |                |           |                |
|---------------------------|-----------------------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|
|                           | Arrived.              |                | Departed. |                | Arrived.  |                | Departed. |                |
|                           | Ves-sels.             | Tons Register. | Ves-sels. | Tons Register. | Ves-sels. | Tons Register. | Ves-sels. | Tons Register. |
| Totals, 1923.....         | 55,958                | 18,864,448     | 56,419    | 19,260,398     | 157,980   | 72,200,372     | 156,045   | 71,172,889     |
| Totals, 1924.....         | 50,314                | 18,926,976     | 50,758    | 19,001,995     | 157,610   | 76,692,713     | 155,019   | 75,619,788     |
| Totals, 1925.....         | 46,412                | 17,616,105     | 47,011    | 19,341,920     | 154,033   | 78,566,856     | 154,522   | 79,992,014     |
| Totals, 1926.....         | 26,049                | 14,117,099     | 27,056    | 15,474,732     | 135,918   | 78,725,299     | 136,287   | 79,409,183     |
| Totals, 1927.....         | 29,876                | 14,862,096     | 30,626    | 16,319,794     | 143,480   | 81,211,296     | 142,363   | 81,862,749     |
| Totals, 1928.....         | 35,073                | 16,745,632     | 35,918    | 18,843,531     | 150,957   | 86,368,065     | 151,259   | 86,963,348     |
| Totals, 1929.....         | 37,320                | 18,987,751     | 38,437    | 20,338,949     | 154,898   | 95,498,497     | 155,237   | 95,290,415     |
| Totals, 1930.....         | 54,742                | 17,550,585     | 55,600    | 18,895,972     | 158,530   | 88,373,217     | 159,682   | 88,800,345     |
| Totals, 1931.....         | 40,663                | 17,769,690     | 40,826    | 18,542,037     | 138,907   | 92,969,104     | 139,040   | 92,617,979     |
| Totals, 1932.....         | 35,264                | 15,216,213     | 35,768    | 15,879,943     | 124,314   | 87,132,395     | 124,982   | 86,528,873     |
| 1933.                     |                       |                |           |                |           |                |           |                |
| Prince Edward Island..... | -                     | -              | -         | -              | 1,031     | 378,148        | 1,042     | 382,128        |
| Nova Scotia.....          | -                     | -              | -         | -              | 16,732    | 8,166,412      | 17,028    | 7,757,690      |
| New Brunswick.....        | -                     | -              | -         | -              | 6,830     | 2,828,509      | 6,841     | 2,844,711      |
| Quebec.....               | 868                   | 646,501        | 1,121     | 959,093        | 11,524    | 14,822,854     | 11,567    | 14,910,653     |
| Ontario.....              | 30,623                | 12,058,100     | 30,776    | 12,823,817     | 43,728    | 26,637,305     | 43,587    | 26,665,842     |
| Manitoba.....             | -                     | -              | -         | -              | 13        | 47,606         | 13        | 47,606         |
| British Columbia.....     | 40                    | 2,160          | 42        | 2,185          | 34,247    | 26,790,802     | 34,617    | 26,943,197     |
| Yukon.....                | 20                    | 7,293          | 18        | 6,504          | 99        | 62,200         | 100       | 63,003         |
| Totals, 1933.....         | 31,551                | 12,714,054     | 31,957    | 13,791,599     | 114,204   | 79,733,836     | 114,795   | 79,614,830     |
| 1934.                     |                       |                |           |                |           |                |           |                |
| Prince Edward Island..... | -                     | -              | -         | -              | 1,151     | 440,712        | 1,145     | 433,254        |
| Nova Scotia.....          | -                     | -              | -         | -              | 16,163    | 9,048,647      | 16,524    | 8,847,234      |
| New Brunswick.....        | -                     | -              | -         | -              | 8,690     | 3,131,128      | 8,704     | 3,165,242      |
| Quebec.....               | 791                   | 615,784        | 1,029     | 912,963        | 12,742    | 15,631,161     | 12,888    | 15,830,714     |
| Ontario.....              | 27,517                | 12,095,692     | 27,611    | 13,541,514     | 40,657    | 26,156,828     | 40,398    | 27,182,854     |
| Manitoba.....             | -                     | -              | -         | -              | 17        | 33,790         | 17        | 33,790         |
| British Columbia.....     | 4                     | 50             | 4         | 50             | 35,222    | 28,344,399     | 35,680    | 27,982,257     |
| Yukon.....                | 16                    | 7,040          | 16        | 6,425          | 102       | 65,391         | 103       | 64,764         |
| Totals, 1934.....         | 28,328                | 12,718,566     | 28,660    | 14,460,952     | 114,744   | 82,852,056     | 115,459   | 83,540,109     |

The relative volume of shipping in the leading ports of the provinces of Canada is shown in Tables 59 and 59A. Details are given of the sea-going vessels and of the total of all shipping (exclusive of ferriage) arrived at and departed from each port. In the fiscal year ended Mar. 31, 1934, the tonnage of sea-going vessels arriving at and departing from Vancouver exceeded that of any other port in Canada; Victoria was next, followed by Halifax and Montreal. In total shipping, which included coastwise and inland international as well as sea-going shipping, Vancouver was considerably in the lead, followed by Montreal, Victoria and Halifax.

**59.—Number and Tonnage of Sea-Going and of All Vessels Entered and Cleared at the Principal Ports of Canada, fiscal year ended Mar. 31, 1933.**

NOTE.—For details of coastwise and inland international shipping at these ports and at all other ports of Canada, see the Shipping Report of the Department of National Revenue for the fiscal year ended Mar. 31, 1933. Figures of total shipping are exclusive of ferriage.

| Province and Port.                          | Sea-Going Vessels. |                   |               |                   | Total Shipping. |                   |               |                   |
|---------------------------------------------|--------------------|-------------------|---------------|-------------------|-----------------|-------------------|---------------|-------------------|
|                                             | Arrived.           |                   | Departed.     |                   | Arrived.        |                   | Departed.     |                   |
|                                             | Ves-<br>sels.      | Tons<br>Register. | Ves-<br>sels. | Tons<br>Register. | Ves-<br>sels.   | Tons<br>Register. | Ves-<br>sels. | Tons<br>Register. |
| Prince Edward Island—<br>Charlottetown..... | 56                 | 54,624            | 89            | 83,968            | 621             | 265,225           | 626           | 269,968           |
| Nova Scotia—                                |                    |                   |               |                   |                 |                   |               |                   |
| Baddeck.....                                | 7                  | 593               | 7             | 593               | 541             | 46,612            | 541           | 46,612            |
| Canso.....                                  | 88                 | 14,883            | 109           | 17,843            | 1,260           | 144,008           | 1,304         | 147,165           |
| Digby.....                                  | 18                 | 1,084             | 19            | 565               | 538             | 635,010           | 540           | 643,161           |
| Halifax.....                                | 1,161              | 3,420,681         | 1,403         | 3,083,420         | 2,855           | 4,246,952         | 3,002         | 3,802,828         |
| Louisburg.....                              | 45                 | 13,575            | 46            | 18,811            | 173             | 46,253            | 167           | 45,507            |
| North Sydney.....                           | 785                | 262,870           | 769           | 263,024           | 1,815           | 380,349           | 1,349         | 401,564           |
| Parrsboro.....                              | 35                 | 10,773            | 45            | 18,735            | 437             | 58,245            | 448           | 61,083            |
| Pictou.....                                 | 2                  | 1,687             | 4             | 3,295             | 413             | 111,676           | 414           | 112,120           |
| Port Mulgrave.....                          | 1                  | 53                | 2             | 65                | 858             | 90,476            | 858           | 91,453            |
| Sydney.....                                 | 97                 | 89,986            | 149           | 125,463           | 970             | 937,002           | 965           | 920,255           |
| Windsor.....                                | 73                 | 111,916           | 76            | 114,681           | 141             | 129,522           | 141           | 129,522           |
| Yarmouth.....                               | 546                | 543,511           | 519           | 539,282           | 1,046           | 579,277           | 1,044         | 578,066           |
| New Brunswick—                              |                    |                   |               |                   |                 |                   |               |                   |
| Saint John.....                             | 616                | 1,411,259         | 577           | 1,370,848         | 1,973           | 2,226,749         | 1,992         | 2,236,520         |
| St. Andrews.....                            | 1,178              | 76,877            | 1,206         | 79,753            | 1,597           | 131,001           | 1,607         | 134,578           |
| Quebec—                                     |                    |                   |               |                   |                 |                   |               |                   |
| Chicoutimi.....                             | 6                  | 9,212             | —             | —                 | 68              | 20,033            | 69            | 20,240            |
| Gaspé.....                                  | 9                  | 12,300            | 13            | 20,252            | 115             | 98,378            | 114           | 95,688            |
| Lévis.....                                  | 4                  | 7,829             | 2             | 2,057             | 74              | 80,334            | 74            | 80,336            |
| Montreal.....                               | 981                | 3,647,117         | 933           | 3,503,636         | 5,756           | 7,729,417         | 5,764         | 7,706,332         |
| Port Alfred.....                            | 16                 | 42,252            | 33            | 90,988            | 106             | 306,798           | 105           | 305,743           |
| Quebec.....                                 | 449                | 2,073,732         | 288           | 1,147,547         | 2,278           | 3,640,732         | 2,307         | 3,748,971         |
| Rimouski.....                               | 2                  | 1,742             | 9             | 12,263            | 528             | 131,608           | 514           | 147,221           |
| Sorel.....                                  | 24                 | 57,493            | 134           | 266,569           | 811             | 1,383,467         | 820           | 1,369,853         |
| Three Rivers.....                           | 61                 | 161,232           | 61            | 161,232           | 1,004           | 1,252,728         | 1,003         | 1,253,774         |
| Ontario—                                    |                    |                   |               |                   |                 |                   |               |                   |
| Amherstburg.....                            | —                  | —                 | —             | —                 | 529             | 280,354           | 501           | 286,103           |
| Belleville.....                             | —                  | —                 | —             | —                 | 136             | 76,090            | 136           | 76,090            |
| Brockville.....                             | —                  | —                 | —             | —                 | 836             | 501,617           | 838           | 502,087           |
| Cobourg.....                                | —                  | —                 | —             | —                 | 402             | 1,331,645         | 401           | 1,329,978         |
| Collingwood.....                            | —                  | —                 | —             | —                 | 92              | 120,383           | 98            | 123,484           |
| Cornwall.....                               | —                  | —                 | —             | —                 | 266             | 241,090           | 266           | 251,152           |
| Depot Harbour.....                          | —                  | —                 | —             | —                 | 118             | 226,363           | 118           | 225,504           |
| Erieau.....                                 | —                  | —                 | —             | —                 | 150             | 186,116           | 145           | 185,951           |
| Fort William.....                           | —                  | —                 | 4             | 3,144             | 1,301           | 2,857,411         | 1,092         | 2,426,571         |
| Goderich.....                               | —                  | —                 | —             | —                 | 85              | 161,273           | 90            | 167,799           |
| Gore Bay.....                               | —                  | —                 | —             | —                 | 195             | 72,310            | 195           | 72,014            |
| Hamilton.....                               | —                  | —                 | —             | —                 | 660             | 881,324           | 507           | 723,935           |
| Kingston.....                               | —                  | —                 | 5             | 3,620             | 2,080           | 1,811,625         | 2,250         | 1,766,805         |
| Little Current.....                         | —                  | —                 | —             | —                 | 258             | 132,124           | 226           | 131,653           |
| Midland.....                                | —                  | —                 | —             | —                 | 237             | 493,605           | 240           | 607,009           |
| Niagara Falls.....                          | —                  | —                 | —             | —                 | 1,482           | 1,352,952         | 1,483         | 1,468,760         |
| Owen Sound.....                             | —                  | —                 | —             | —                 | 320             | 339,880           | 320           | 338,177           |
| Port Arthur.....                            | —                  | —                 | —             | —                 | 988             | 2,314,557         | 1,201         | 2,757,083         |
| Port Colborne.....                          | —                  | —                 | —             | —                 | 791             | 1,339,400         | 758           | 1,277,270         |
| Port Dover.....                             | —                  | —                 | —             | —                 | 129             | 4,860             | 116           | 4,760             |
| Port McNicoll.....                          | —                  | —                 | —             | —                 | 310             | 763,681           | 310           | 755,001           |
| Port Stanley.....                           | —                  | —                 | —             | —                 | 187             | 205,682           | 188           | 205,802           |
| Prescott.....                               | —                  | —                 | —             | —                 | 754             | 759,645           | 750           | 735,590           |
| Sandwich.....                               | —                  | —                 | —             | —                 | 183             | 190,624           | 171           | 186,368           |
| Sarnia.....                                 | —                  | —                 | —             | —                 | 14,847          | 2,672,550         | 14,903        | 2,726,816         |
| Sault Ste. Marie.....                       | —                  | —                 | —             | —                 | 1,539           | 1,485,570         | 1,564         | 1,483,976         |
| Thorold.....                                | —                  | —                 | 5             | 3,518             | 317             | 417,626           | 322           | 420,487           |
| Toronto.....                                | —                  | —                 | —             | —                 | 2,522           | 2,698,246         | 2,553         | 2,701,541         |
| Walkerville.....                            | —                  | —                 | —             | —                 | 461             | 136,805           | 443           | 149,571           |
| Wallaceburg.....                            | —                  | —                 | —             | —                 | 268             | 154,506           | 273           | 155,092           |
| Welland.....                                | —                  | —                 | —             | —                 | 95              | 98,449            | 64            | 73,250            |
| Windsor.....                                | —                  | —                 | —             | —                 | 1,146           | 1,151,629         | 1,134         | 1,137,566         |
| Manitoba—<br>Churchill.....                 | 10                 | 47,445            | 10            | 47,445            | 13              | 47,606            | 13            | 47,606            |

**59.—Number and Tonnage of Sea-Going and of All Vessels Entered and Cleared at the Principal Ports of Canada, fiscal year ended Mar. 31, 1933—concluded.**

| Province and Port.   | Sea-Going Vessels. |                |           |                | Total Shipping. |                |           |                |
|----------------------|--------------------|----------------|-----------|----------------|-----------------|----------------|-----------|----------------|
|                      | Arrived.           |                | Departed. |                | Arrived.        |                | Departed. |                |
|                      | Ves-sels.          | Tons Register. | Ves-sels. | Tons Register. | Ves-sels.       | Tons Register. | Ves-sels. | Tons Register. |
| British Columbia—    |                    |                |           |                |                 |                |           |                |
| Alert Bay.....       | 291                | 8,432          | 296       | 7,924          | 1,188           | 530,618        | 1,194     | 531,364        |
| Anyox.....           | 4                  | 65             | 17        | 21,760         | 393             | 243,555        | 395       | 246,051        |
| Bamfield.....        | 9                  | 849            | 13        | 3,108          | 383             | 99,684         | 345       | 92,325         |
| Britannia Beach..... | 58                 | 114,174        | 63        | 131,278        | 482             | 241,957        | 478       | 241,761        |
| Chemainus.....       | 277                | 380,939        | 262       | 377,979        | 606             | 460,120        | 595       | 456,944        |
| Ladysmith.....       | 7                  | 7,933          | 4         | 369            | 654             | 304,479        | 654       | 308,654        |
| Nanaimo.....         | 163                | 133,991        | 215       | 129,090        | 2,289           | 1,199,344      | 2,403     | 1,186,086      |
| New Westminster..... | 453                | 1,130,470      | 485       | 1,137,429      | 1,787           | 1,462,647      | 1,887     | 1,457,506      |
| Ocean Falls.....     | 41                 | 31,147         | 56        | 119,728        | 843             | 636,286        | 841       | 692,262        |
| Port Alberni.....    | 75                 | 230,739        | 71        | 231,001        | 357             | 325,280        | 354       | 325,414        |
| Powell River.....    | 184                | 635,322        | 174       | 351,160        | 1,926           | 1,234,894      | 1,925     | 1,231,339      |
| Prince Rupert.....   | 1,511              | 197,790        | 1,506     | 212,976        | 2,809           | 782,527        | 2,843     | 791,153        |
| Qatsino.....         | 38                 | 20,041         | 49        | 25,137         | 308             | 107,287        | 308       | 107,172        |
| Stewart.....         | 2                  | 3,012          | 4         | 3,023          | 180             | 206,859        | 183       | 206,873        |
| Sidney.....          | 519                | 110,640        | 407       | 112,542        | 749             | 188,326        | 666       | 190,931        |
| Union Bay.....       | 75                 | 166,887        | 54        | 144,210        | 631             | 447,606        | 629       | 448,664        |
| Vancouver.....       | 2,148              | 5,529,808      | 2,095     | 5,544,731      | 12,829          | 10,775,963     | 13,024    | 10,867,157     |
| Victoria.....        | 2,052              | 4,049,284      | 2,080     | 3,957,593      | 4,907           | 7,344,046      | 4,945     | 7,356,249      |

**59A.—Number and Tonnage of Sea-Going and of All Vessels Entered and Cleared at the Principal Ports of Canada, fiscal year ended Mar. 31, 1934.**

NOTE.—For details of coastwise and inland international shipping at these ports and all other ports of Canada, see the Shipping Report of the Department of National Revenue for the fiscal year ended Mar. 31, 1934. Figures of total shipping are exclusive of ferriage.

| Province and Port.    | Sea-Going Vessels. |                |           |                | Total Shipping. |                |           |                |
|-----------------------|--------------------|----------------|-----------|----------------|-----------------|----------------|-----------|----------------|
|                       | Arrived.           |                | Departed. |                | Arrived.        |                | Departed. |                |
|                       | Ves-sels.          | Tons Register. | Ves-sels. | Tons Register. | Ves-sels.       | Tons Register. | Ves-sels. | Tons Register. |
| Prince Edward Island— |                    |                |           |                |                 |                |           |                |
| Charlottetown.....    | 51                 | 64,473         | 73        | 87,796         | 625             | 294,307        | 626       | 294,437        |
| Nova Scotia—          |                    |                |           |                |                 |                |           |                |
| Baddeck.....          | 8                  | 523            | 10        | 670            | 418             | 35,566         | 418       | 35,566         |
| Canso.....            | 114                | 9,757          | 151       | 12,746         | 1,158           | 134,996        | 1,239     | 138,021        |
| Digby.....            | 12                 | 1,709          | 19        | 3,319          | 532             | 658,009        | 542       | 658,653        |
| Halifax.....          | 1,259              | 3,632,009      | 1,484     | 3,908,981      | 2,798           | 4,762,235      | 2,828     | 4,510,711      |
| Louisburg.....        | 83                 | 58,309         | 94        | 52,381         | 265             | 117,628        | 267       | 116,862        |
| North Sydney.....     | 896                | 276,799        | 876       | 270,917        | 1,513           | 504,334        | 1,543     | 507,720        |
| Parrsboro.....        | 32                 | 12,283         | 39        | 22,195         | 467             | 63,494         | 484       | 67,859         |
| Pictou.....           | 3                  | 1,330          | 9         | 8,323          | 381             | 130,980        | 415       | 135,662        |
| Port Mulgrave.....    | 1                  | 95             | 5         | 958            | 834             | 82,887         | 834       | 89,620         |
| Sidney.....           | 102                | 119,266        | 173       | 190,976        | 935             | 1,087,407      | 958       | 1,107,319      |
| Windsor.....          | 56                 | 92,741         | 69        | 108,291        | 133             | 124,399        | 133       | 130,398        |
| Yarmouth.....         | 535                | 555,607        | 519       | 546,584        | 914             | 604,058        | 928       | 593,925        |
| New Brunswick—        |                    |                |           |                |                 |                |           |                |
| Saint John.....       | 684                | 1,476,804      | 688       | 1,448,018      | 2,340           | 2,390,688      | 2,338     | 2,382,679      |
| St. Andrews.....      | 2,268              | 116,019        | 2,280     | 119,981        | 2,830           | 180,147        | 2,829     | 178,214        |
| Quebec—               |                    |                |           |                |                 |                |           |                |
| Chicoutimi.....       | 9                  | 14,597         | 1         | 1,755          | 65              | 21,915         | 70        | 22,267         |
| Gaspé.....            | 13                 | 14,722         | 28        | 43,587         | 158             | 71,254         | 159       | 84,893         |
| Lévis.....            | 5                  | 7,126          | 2         | 2,436          | 106             | 115,399        | 107       | 115,468        |
| Montreal.....         | 1,078              | 3,849,067      | 907       | 3,417,502      | 5,963           | 7,790,873      | 5,948     | 7,750,349      |
| Port Alfred.....      | 23                 | 62,018         | 28        | 83,441         | 124             | 3,882,044      | 122       | 370,401        |
| Quebec.....           | 397                | 2,000,595      | 308       | 1,388,234      | 2,656           | 3,984,726      | 2,728     | 4,190,615      |
| Rimouski.....         | 7                  | 7,345          | 24        | 38,835         | 804             | 193,723        | 844       | 196,235        |
| Sorel.....            | 15                 | 32,684         | 121       | 203,498        | 737             | 1,291,116      | 770       | 1,306,609      |
| Three Rivers.....     | 79                 | 212,280        | 79        | 212,280        | 1,174           | 1,355,940      | 1,172     | 1,362,184      |



59A.—Numbers and Tonnages of Sea-Going and of All Vessels Entered and Cleared at the Principal Ports of Canada, fiscal year ended Mar. 31, 1934—concluded.

| Province and Port.       | Sea-Going Vessels. |                   |               |                   | Total Shipping. |                   |               |                   |
|--------------------------|--------------------|-------------------|---------------|-------------------|-----------------|-------------------|---------------|-------------------|
|                          | Arrived.           |                   | Departed.     |                   | Arrived.        |                   | Departed.     |                   |
|                          | Ves-<br>sels.      | Tons<br>Register. | Ves-<br>sels. | Tons<br>Register. | Ves-<br>sels.   | Tons<br>Register. | Ves-<br>sels. | Tons<br>Register. |
| <b>Ontario—</b>          |                    |                   |               |                   |                 |                   |               |                   |
| Amherstburg.....         | -                  | -                 | -             | -                 | 266             | 204,437           | 272           | 199,524           |
| Belleville.....          | -                  | -                 | -             | -                 | 112             | 40,885            | 111           | 40,855            |
| Brockville.....          | -                  | -                 | -             | -                 | 701             | 482,287           | 700           | 482,285           |
| Cobourg.....             | -                  | -                 | -             | -                 | 296             | 984,662           | 298           | 991,372           |
| Collingwood.....         | -                  | -                 | -             | -                 | 94              | 102,107           | 90            | 100,707           |
| Cornwall.....            | -                  | -                 | -             | -                 | 319             | 288,757           | 313           | 308,066           |
| Depot Harbour.....       | -                  | -                 | -             | -                 | 115             | 210,332           | 116           | 215,493           |
| Erieau.....              | -                  | -                 | -             | -                 | 147             | 214,202           | 142           | 212,238           |
| Fort William.....        | -                  | -                 | -             | -                 | 1,229           | 2,614,644         | 1,019         | 2,216,860         |
| Goderich.....            | -                  | -                 | -             | -                 | 74              | 153,431           | 79            | 171,023           |
| Gore Bay.....            | -                  | -                 | -             | -                 | 187             | 65,812            | 187           | 66,997            |
| Hamilton.....            | -                  | -                 | -             | -                 | 700             | 1,124,645         | 519           | 1,074,986         |
| Kingston.....            | -                  | -                 | -             | -                 | 1,864           | 1,637,012         | 2,053         | 2,003,950         |
| Little Current.....      | -                  | -                 | -             | -                 | 282             | 139,776           | 268           | 132,185           |
| Midland.....             | -                  | -                 | -             | -                 | 175             | 332,851           | 177           | 338,471           |
| Niagara Falls.....       | -                  | -                 | -             | -                 | 1,296           | 1,108,277         | 1,296         | 1,304,077         |
| Owen Sound.....          | -                  | -                 | -             | -                 | 317             | 314,532           | 323           | 320,610           |
| Port Arthur.....         | -                  | -                 | -             | -                 | 921             | 2,254,328         | 1,138         | 2,667,238         |
| Port Colborne.....       | -                  | -                 | -             | -                 | 738             | 1,186,176         | 736           | 1,181,590         |
| Port Dover.....          | -                  | -                 | -             | -                 | 135             | 3,544             | 130           | 3,518             |
| Port McNicoll.....       | -                  | -                 | -             | -                 | 163             | 430,453           | 224           | 585,949           |
| Port Stanley.....        | -                  | -                 | -             | -                 | 186             | 205,851           | 186           | 204,150           |
| Prescott.....            | -                  | -                 | -             | -                 | 902             | 916,439           | 721           | 689,406           |
| Sandwich.....            | -                  | -                 | -             | -                 | 239             | 282,730           | 238           | 286,775           |
| Sarnia.....              | -                  | -                 | -             | -                 | 14,366          | 2,609,055         | 14,384        | 3,158,809         |
| Sault Ste. Marie.....    | -                  | -                 | -             | -                 | 1,623           | 1,608,237         | 1,592         | 1,621,681         |
| Thorold.....             | -                  | -                 | 4             | 3,065             | 423             | 496,567           | 429           | 504,847           |
| Toronto.....             | -                  | -                 | -             | -                 | 2,583           | 2,921,917         | 2,602         | 2,928,069         |
| Walkerville.....         | -                  | -                 | -             | -                 | 291             | 232,369           | 287           | 233,016           |
| Wallaceburg.....         | -                  | -                 | -             | -                 | 267             | 128,186           | 265           | 118,410           |
| Welland.....             | -                  | -                 | -             | -                 | 128             | 137,790           | 104           | 117,225           |
| Windsor.....             | -                  | -                 | -             | -                 | 1,156           | 1,267,205         | 1,141         | 1,247,770         |
| <b>British Columbia—</b> |                    |                   |               |                   |                 |                   |               |                   |
| Alert Bay.....           | 188                | 4,461             | 188           | 4,166             | 1,168           | 508,514           | 1,176         | 507,679           |
| Anvox.....               | 14                 | 11,355            | 16            | 15,176            | 356             | 175,772           | 355           | 176,121           |
| Bamfield.....            | 16                 | 9,518             | 19            | 9,697             | 546             | 106,304           | 554           | 108,248           |
| Britannia Beach.....     | 85                 | 105,958           | 77            | 184,668           | 599             | 282,236           | 596           | 290,316           |
| Chemainus.....           | 346                | 740,014           | 387           | 742,975           | 764             | 834,043           | 789           | 843,092           |
| Nanaimo.....             | 252                | 217,683           | 268           | 202,846           | 2,529           | 1,321,873         | 2,521         | 1,321,278         |
| New Westminster.....     | 678                | 1,558,718         | 700           | 1,564,888         | 1,973           | 1,887,314         | 2,081         | 1,907,347         |
| Ocean Falls.....         | 25                 | 53,279            | 38            | 87,199            | 878             | 667,942           | 884           | 769,016           |
| Port Alberni.....        | 159                | 524,077           | 160           | 521,295           | 433             | 612,355           | 430           | 610,583           |
| Powell River.....        | 225                | 502,252           | 214           | 503,235           | 2,132           | 1,413,011         | 2,128         | 1,412,966         |
| Prince Rupert.....       | 1,141              | 118,630           | 1,155         | 133,251           | 2,431           | 689,987           | 2,515         | 689,613           |
| Quatsino.....            | 81                 | 89,925            | 86            | 113,730           | 384             | 176,318           | 383           | 175,226           |
| Stewart.....             | 13                 | 15,012            | 21            | 26,641            | 174             | 169,337           | 175           | 169,992           |
| Union Bay.....           | 276                | 83,205            | 238           | 76,440            | 771             | 226,353           | 768           | 225,056           |
| Vancouver.....           | 59                 | 108,992           | 45            | 85,739            | 769             | 398,913           | 770           | 399,410           |
| Victoria.....            | 2,332              | 6,293,824         | 2,137         | 5,511,951         | 13,633          | 11,303,076        | 13,825        | 10,786,208        |
|                          | 1,967              | 4,437,086         | 1,938         | 4,437,395         | 4,959           | 7,379,783         | 4,994         | 7,388,209         |

Section 5.—Shipping Constructed and on the Registry.

The shipbuilding industry in Canada dates from the earliest settlement of the country, and up till the 1870's was one of the leading industries of Quebec and of the Maritime Provinces, 490 vessels with a total tonnage of 183,010 being constructed in the calendar year 1874. At that time, however, the advent of the steel ship rendered the wooden vessels, the material for which was so abundant in Canada, obsolete, with the result that the tonnage built has never since reached the above figure, though in the fiscal years 1919 and 1920 the construction of the

Canadian Government Merchant Marine, built as an extraordinary measure arising out of the War, raised the totals constructed to 104,444 and 164,074 tons respectively. Statistics of ships built and registered in Canada or sold to other countries are given in Table 60. For further information on the shipbuilding industry, see Table 7 of the chapter on Manufactures, pp. 466-467.

**60.—Vessels Built and Registered in Canada and Vessels Sold to Other Countries, fiscal years ended Mar. 31, 1911-34.**

NOTE.—For 1874-1900, see Canada Year Book, 1911, p. 383, and for 1901-10, see 1932 Year Book, p. 597. Statistics are from the Shipping Reports of the Department of National Revenue.

| Fiscal Year. | Built. |          | Registered. |          | Sold to Other Countries. |          |            |
|--------------|--------|----------|-------------|----------|--------------------------|----------|------------|
|              | No.    | Tonnage. | No.         | Tonnage. | No.                      | Tonnage. | Value.     |
| 1911.....    | 247    | 22,812   | 234         | 50,006   | 17                       | 5,885    | \$ 101,526 |
| 1912.....    | 326    | 31,065   | 302         | 30,021   | 18                       | 4,265    | 140,350    |
| 1913.....    | 324    | 24,325   | 328         | 30,225   | 20                       | 7,976    | 610,650    |
| 1914.....    | 289    | 46,887   | 230         | 46,909   | 27                       | 8,258    | 169,618    |
| 1915.....    | 224    | 45,721   | 237         | 55,384   | 21                       | 17,044   | 1,150,950  |
| 1916.....    | 167    | 13,497   | 325         | 102,239  | 21                       | 4,529    | 192,575    |
| 1917.....    | 184    | 28,638   | 334         | 105,826  | 47                       | 24,954   | 4,398,570  |
| 1918.....    | 216    | 53,912   | 336         | 70,350   | 63                       | 25,252   | 5,330,850  |
| 1919.....    | 277    | 104,444  | 327         | 102,883  | 85                       | 48,965   | 14,612,338 |
| 1920.....    | 352    | 164,074  | 459         | 237,022  | 68                       | 53,407   | 17,819,477 |
| 1921.....    | 220    | 95,838   | 323         | 188,915  | 69                       | 34,623   | 8,456,573  |
| 1922.....    | 143    | 78,409   | 228         | 131,732  | 35                       | 25,462   | 3,399,450  |
| 1923.....    | 154    | 14,868   | 274         | 57,446   | 18                       | 26,394   | 1,009,327  |
| 1924.....    | 160    | 20,336   | 194         | 74,311   | 21                       | 17,076   | 605,211    |
| 1925.....    | 232    | 36,147   | 198         | 48,054   | 28                       | 21,689   | 717,730    |
| 1926.....    | 247    | 39,840   | 218         | 88,380   | 27                       | 24,673   | 1,413,150  |
| 1927.....    | 341    | 32,801   | 281         | 79,448   | 32                       | 27,027   | 1,984,040  |
| 1928.....    | 236    | 12,904   | 417         | 64,301   | 31                       | 16,307   | 599,490    |
| 1929.....    | 328    | 49,798   | 386         | 155,972  | 30                       | 18,627   | 154,750    |
| 1930.....    | 282    | 28,871   | 468         | 84,529   | 34                       | 33,779   | 805,636    |
| 1931.....    | 294    | 45,162   | 396         | 129,088  | 22                       | 8,865    | 421,500    |
| 1932.....    | 202    | 19,032   | 319         | 64,396   | 23                       | 18,849   | 889,221    |
| 1933.....    | 159    | 9,156    | 193         | 25,811   | 32                       | 37,543   | 443,258    |
| 1934.....    | 113    | 5,818    | 184         | 10,375   | 22                       | 13,570   | 147,850    |

The numbers and net tonnages of the vessels on the registry of Canada, as at the end of each of the calendar years from 1924 to 1933, are given by provinces in Table 61.

**61.—Numbers and Net Tonnages of Vessels on the Registry of Shipping of Canada, by Provinces, Dec. 31, 1924-33.**

NOTE.—The figures in this table are supplied by the courtesy of the Department of Marine.

| Province.          | 1924.        |                  | 1925.        |                  | 1926.        |                  | 1927.        |                  | 1928.        |                  |
|--------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|
|                    | No.          | Tonnage.         | No.          | Tonnage.         | No.          | Tonnage.         | No.          | Tonnage.         | No.          | Tonnage.         |
| P.E. Island.....   | 133          | 9,078            | 131          | 8,997            | 127          | 8,556            | 133          | 8,581            | 132          | 8,549            |
| Nova Scotia.....   | 1,488        | 134,991          | 1,475        | 135,761          | 1,452        | 134,539          | 1,412        | 129,482          | 1,436        | 126,428          |
| New Brunswick..    | 808          | 34,644           | 818          | 33,318           | 816          | 33,002           | 829          | 33,077           | 828          | 33,395           |
| Quebec.....        | 1,305        | 425,852          | 1,341        | 438,253          | 1,369        | 447,889          | 1,368        | 456,092          | 1,373        | 502,224          |
| Ontario.....       | 1,649        | 314,297          | 1,667        | 326,571          | 1,702        | 387,036          | 1,724        | 397,987          | 1,746        | 367,007          |
| Manitoba.....      | 83           | 10,207           | 93           | 10,207           | 94           | 10,321           | 96           | 10,661           | 98           | 10,684           |
| Saskatchewan....   | 6            | 486              | 6            | 486              | 6            | 486              | 6            | 486              | 6            | 486              |
| British Columbia   | 2,198        | 289,549          | 2,373        | 327,524          | 2,618        | 325,190          | 2,872        | 327,984          | 3,012        | 313,651          |
| Yukon.....         | 9            | 1,916            | 9            | 1,916            | 9            | 1,916            | 14           | 3,650            | 14           | 3,650            |
| <b>Totals.....</b> | <b>7,689</b> | <b>1,221,020</b> | <b>7,913</b> | <b>1,283,033</b> | <b>8,193</b> | <b>1,348,935</b> | <b>8,454</b> | <b>1,368,000</b> | <b>8,645</b> | <b>1,366,074</b> |

**61.—Numbers and Net Tonnages of Vessels on the Registry of Shipping of Canada, by Provinces, Dec. 31, 1924-33—concluded.**

| Province.             | 1929.        |                              | 1930.        |                  | 1931.        |                  | 1932.        |                  | 1933.        |                  |
|-----------------------|--------------|------------------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|
|                       | No.          | Tonnage.                     | No.          | Tonnage.         | No.          | Tonnage.         | No.          | Tonnage.         | No.          | Tonnage.         |
| P. E. Island.....     | 134          | 8,370                        | 130          | 8,351            | 129          | 11,026           | 129          | 10,996           | 135          | 11,134           |
| Nova Scotia.....      | 1,471        | 127,077 <sup>1</sup>         | 1,478        | 119,055          | 1,435        | 113,264          | 1,434        | 112,891          | 1,379        | 105,737          |
| New Brunswick.....    | 885          | 34,031                       | 919          | 38,350           | 985          | 40,024           | 983          | 39,766           | 1,010        | 41,247           |
| Quebec.....           | 1,265        | 506,594                      | 1,262        | 495,017          | 1,307        | 517,815          | 1,277        | 518,227          | 1,320        | 482,512          |
| Ontario.....          | 1,759        | 365,531 <sup>1</sup>         | 1,775        | 392,708          | 1,799        | 424,012          | 1,764        | 424,716          | 1,857        | 419,823          |
| Manitoba.....         | 103          | 11,051                       | 105          | 11,185           | 110          | 11,460           | 110          | 11,461           | 113          | 11,505           |
| Saskatchewan.....     | 6            | 486                          | 6            | 486              | 6            | 486              | 6            | 486              | 5            | 397              |
| British Columbia..... | 3,257        | 335,810                      | 3,203        | 361,328          | 3,178        | 361,305          | 3,178        | 361,305          | 3,084        | 352,187          |
| Yukon.....            | 19           | 4,543                        | 20           | 5,584            | 17           | 5,031            | 17           | 5,031            | 17           | 5,031            |
| <b>Totals.....</b>    | <b>8,899</b> | <b>1,393,493<sup>1</sup></b> | <b>8,598</b> | <b>1,432,064</b> | <b>8,966</b> | <b>1,484,423</b> | <b>8,898</b> | <b>1,484,879</b> | <b>8,920</b> | <b>1,429,573</b> |

<sup>1</sup>Revised since the publication of the 1933 Year Book.**Section 6.—The Department of Marine.\***

Administration of the general shipping interests of Canada is in the hands of the Dominion Department of Marine. It deals with: (1) administration of the Canada Shipping Act and other Acts of the Dominion Government relating to marine transportation; (2) pilotage; (3) the construction and maintenance of lighthouses, lightships, fog alarms, buoys and beacons; (4) ports, harbours, piers, wharves and breakwaters; (5) the Meteorological Service of Canada; (6) relief of distressed seamen; (7) hydrographic, tidal and current surveys; (8) inquiries into the causes of shipwrecks and casualties, and the collection of wreck statistics; (9) life-saving service; (10) the inspection of steamboats; (11) the construction and maintenance of the St. Lawrence River ship channel; (12) marine signal service; (13) ice breaking and (14) the administration of Government radiotelegraph stations and the supervision of private stations in Canada. The net revenue of the Department for the fiscal year ended Mar. 31, 1934, was \$1,645,291, and the expenditure for the same period was \$12,208,231.

A summary statement of the revenue and expenditure of the Department of Marine is given for each fiscal year since 1901 in Table 62, while details for the six years from 1929 to 1934 are presented in Tables 63 and 64.

\*Revised by E. Hawken, Assistant Deputy Minister, Department of Marine.

**62.—Total Revenues and Expenditures of the Department of Marine, fiscal years ended June 30, 1901-06, and Mar. 31, 1907-34.**

NOTE.—For fiscal years 1868 to 1900, see 1933 Year Book, p. 715.

| Fiscal Year. | Revenue. | Expenditure. | Fiscal Year. | Revenue.             | Expenditure.            | Fiscal Year. | Revenue.  | Expenditure. |
|--------------|----------|--------------|--------------|----------------------|-------------------------|--------------|-----------|--------------|
|              | \$       | \$           |              | \$                   | \$                      |              | \$        | \$           |
| 1901.....    | 144,919  | 1,029,925    | 1913.....    | 185,725              | 5,213,223               | 1924.....    | 593,722   | 13,160,680   |
| 1902.....    | 148,607  | 1,501,619    | 1914.....    | 217,034              | 5,828,027               | 1925.....    | 416,864   | 13,636,145   |
| 1903.....    | 139,876  | 1,671,495    | 1915.....    | 795,550 <sup>2</sup> | 6,202,908               | 1926.....    | 479,475   | 16,776,939   |
| 1904.....    | 128,507  | 2,150,940    | 1916.....    | 461,457              | 5,621,611               | 1927.....    | 629,761   | 10,270,674   |
| 1905.....    | 121,815  | 4,747,723    | 1917.....    | 574,498              | 4,768,784               | 1928.....    | 615,089   | 15,368,692   |
| 1906.....    | 139,475  | 5,066,253    | 1918.....    | 228,812              | 4,361,498               | 1929.....    | 671,224   | 18,167,190   |
| 1907.....    | 106,260  | 3,637,600    | 1919.....    | 396,779              | 4,459,165               | 1930.....    | 810,530   | 23,508,502   |
| 1908.....    | 177,591  | 5,374,774    | 1920.....    | 303,002              | 38,301,080 <sup>2</sup> | 1931.....    | 981,061   | 27,486,719   |
| 1909.....    | 169,502  | 5,498,531    | 1921.....    | 396,617              | 26,038,902              | 1932.....    | 871,529   | 25,056,916   |
| 1910.....    | 156,957  | 4,692,771    | 1922.....    | 701,497              | 20,419,883              | 1933.....    | 1,713,498 | 14,258,409   |
| 1911.....    | 154,492  | 4,197,420    | 1923.....    | 574,567              | 13,156,182              | 1934.....    | 1,645,291 | 12,208,231   |
| 1912.....    | 185,579  | 4,911,141    |              |                      |                         |              |           |              |

<sup>1</sup>Nine months. <sup>2</sup>The increase in expenditure in 1920 and later years was due to the shipbuilding program and to loans to harbour commissions. <sup>3</sup>Includes \$493,000 from sale of steamer *Earl Grey* to the Russian Government.

**63.—Revenues of the Department of Marine, by Sources, fiscal years ended Mar. 31, 1929-34.**

| Source of Revenue.                        | 1929.          | 1930.          | 1931.          | 1932.          | 1933.            | 1934.            |
|-------------------------------------------|----------------|----------------|----------------|----------------|------------------|------------------|
|                                           | \$             | \$             | \$             | \$             | \$               | \$               |
| Harbours, piers and wharves.....          | 45,878         | 53,281         | 54,668         | 78,674         | 75,026           | 104,854          |
| Earnings of Dominion steamers.....        | —              | 376            | 20             | 51             | 363              | 2,529            |
| Steamboat inspection fund.....            | 136,932        | 131,356        | 144,332        | 113,231        | 103,091          | 102,678          |
| Examination, masters and mates.....       | 5,181          | 5,126          | 4,733          | 3,381          | 3,240            | 3,260            |
| Casual revenue, sundries.....             | 121,990        | 104,860        | 94,323         | 89,691         | 70,703           | 69,411           |
| Radio revenue.....                        | 81,760         | 90,728         | 75,753         | 50,700         | 45,687           | 49,081           |
| Fines and forfeitures.....                | 3,728          | 5,228          | 1,119          | 953            | 543              | 686              |
| Wireless amateur licence fees.....        | 271,526        | 407,762        | 468,093        | 528,942        | 1,414,297        | 1,303,558        |
| Wireless operators' examination fees..... | 361            | 421            | 605            | 810            | 548              | 596              |
| Miscellaneous.....                        | 1,283          | 2,067          | 1,427          | 1,258          | —                | —                |
| Capital account.....                      | 2,585          | 9,325          | 135,988        | 3,838          | 5,369            | 8,638            |
| <b>Totals.....</b>                        | <b>671,224</b> | <b>810,530</b> | <b>981,061</b> | <b>871,529</b> | <b>1,718,867</b> | <b>1,645,291</b> |

**64.—Expenditures of the Department of Marine, fiscal years ended Mar. 31, 1929-34.**

| Item of Expenditure.                        | 1929.            | 1930.            | 1931.            | 1932.            | 1933.            | 1934.            |
|---------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                             | \$               | \$               | \$               | \$               | \$               | \$               |
| <b>Ocean and River Service—</b>             |                  |                  |                  |                  |                  |                  |
| Investigation into wrecks.....              | 4,921            | 4,754            | 5,979            | 4,874            | 2,873            | 1,697            |
| Registration of shipping.....               | 2,162            | 2,402            | 2,948            | 1,882            | 1,949            | 1,516            |
| Removal of obstructions.....                | 1,095            | 223              | 3,498            | 297              | 592              | 379              |
| Life-saving service.....                    | 53,380           | 60,478           | 55,030           | 57,535           | 43,724           | 42,809           |
| Dominion steamers and icebreakers.....      | 1,954,580        | 1,647,499        | 1,752,352        | 1,505,850        | 1,238,675        | 1,311,423        |
| Schools of navigation.....                  | 7,816            | 7,174            | 7,320            | 7,620            | 4,816            | 4,861            |
| Cattle inspection.....                      | 3,644            | 3,671            | 3,654            | 3,839            | 3,362            | 3,485            |
| Wrecking plants (subsidy).....              | 45,000           | 45,000           | 70,000           | 70,000           | 40,000           | 40,000           |
| Hudson Bay patrol.....                      | 289,464          | 12,989           | —                | —                | —                | —                |
| Examination, masters and mates.....         | 20,000           | 20,461           | 21,615           | 20,115           | 14,687           | 15,719           |
| Hydrographic survey.....                    | 386,739          | 508,246          | 565,722          | 494,051          | 381,707          | 393,287          |
| New steamer for hydro survey.....           | —                | —                | 4,357            | 514,259          | 135,837          | —                |
| Radio telegraph.....                        | 735,004          | 829,499          | 764,633          | 649,356          | 559,935          | 520,219          |
| Radio reception.....                        | 166,776          | 225,265          | 221,656          | 216,906          | 235,301          | 245,429          |
| Radio Broadcasting Commission.....          | —                | 20,603           | —                | —                | —                | —                |
| New steamers.....                           | —                | 173,000          | —                | —                | 210,829          | —                |
| Icebreaker, Hudson bay.....                 | —                | 791,299          | 135,355          | 31,985           | —                | —                |
| Icebreaker, St. Lawrence river.....         | —                | 747,028          | 12,103           | —                | —                | —                |
| Other items of expenditure.....             | 12,675           | 25,741           | 10,879           | 52,259           | 26,601           | 8,456            |
| <b>Totals.....</b>                          | <b>3,683,256</b> | <b>5,125,332</b> | <b>3,637,101</b> | <b>3,630,828</b> | <b>2,900,888</b> | <b>2,589,280</b> |
| <b>Lighthouse and Coast Service—</b>        |                  |                  |                  |                  |                  |                  |
| Agencies and contingencies.....             | 223,280          | 227,064          | 228,686          | 225,016          | 193,827          | 192,192          |
| Administration of pilotage.....             | 141,657          | 118,099          | 111,099          | 158,080          | 87,612           | 86,688           |
| Salaries and allowances to lightkeepers     | 718,777          | 733,977          | 733,976          | 732,619          | 652,390          | 645,859          |
| Maintenance and repairs to lighthouses,     |                  |                  |                  |                  |                  |                  |
| etc.....                                    | 889,223          | 915,978          | 953,890          | 932,698          | 776,830          | 770,125          |
| Construction of lighthouses, etc.....       | 683,012          | 684,482          | 1,166,849        | 374,249          | 169,869          | 248,790          |
| Breaking of ice.....                        | 30,000           | 58,000           | 44,000           | 44,000           | 44,000           | 19,500           |
| Signal service.....                         | 109,994          | 107,947          | 103,689          | 105,474          | 96,574           | 92,917           |
| Other items of expenditure.....             | 16,957           | 25,719           | 49,637           | 22,220           | 16,041           | 15,926           |
| <b>Totals.....</b>                          | <b>2,812,900</b> | <b>2,871,266</b> | <b>3,391,826</b> | <b>2,594,356</b> | <b>2,037,143</b> | <b>2,071,997</b> |
| <b>Public Works, Chargeable to Capital—</b> |                  |                  |                  |                  |                  |                  |
| Ship channel, river St. Lawrence.....       | 1,894,912        | 2,733,019        | 3,462,951        | 4,242,538        | 3,418,118        | 3,510,614        |
| Salvage of Scow 27.....                     | —                | —                | —                | 13,000           | —                | —                |
| Sorel shipyard.....                         | 162,019          | 1                | 1                | 1                | 1                | 1                |
| Allowances.....                             | 6,625            | 2,438            | —                | —                | —                | —                |
| St. Lawrence River dams.....                | —                | 405,589          | 397,410          | 283,751          | 1                | 1                |
| Provisions for Dredge 8.....                | —                | —                | 1,476            | —                | —                | —                |
| Exchequer Court award.....                  | —                | —                | —                | —                | —                | 20,544           |
| <b>Totals.....</b>                          | <b>2,063,556</b> | <b>3,161,046</b> | <b>3,861,837</b> | <b>4,539,289</b> | <b>3,418,118</b> | <b>3,531,158</b> |

<sup>1</sup>Included with "Ship channel, river St. Lawrence" for 1930-34.



**64.—Expenditures of the Department of Marine, fiscal years ended Mar. 31, 1929-34—concluded.**

| Item of Expenditure.                     | 1929.             | 1930.             | 1931.             | 1932.             | 1933.             | 1934.             |
|------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                          | \$                | \$                | \$                | \$                | \$                | \$                |
| Scientific Institutions—                 |                   |                   |                   |                   |                   |                   |
| Meteorological Service.....              | 287,908           | 316,707           | 367,622           | 401,592           | 319,101           | 312,641           |
| <b>Totals.....</b>                       | <b>287,908</b>    | <b>316,707</b>    | <b>367,622</b>    | <b>401,592</b>    | <b>319,101</b>    | <b>312,641</b>    |
| Steamboat inspection.....                | 141,485           | 140,253           | 143,764           | 143,394           | 121,283           | 121,224           |
| Departmental salaries.....               | 392,453           | 397,551           | 402,460           | 401,738           | 350,917           | 290,216           |
| Contingencies.....                       | 54,798            | 55,205            | 69,814            | 67,328            | 54,088            | 33,867            |
| Gratuities.....                          | 2,634             | 4,842             | 4,461             | 4,214             | 6,085             | 2,576             |
| Investigation Halifax Harbour Board..... | —                 | —                 | —                 | 7,654             | —                 | —                 |
| Montreal Harbour Commission.....         | 3,110,000         | 4,336,000         | 2,291,000         | 1,163,000         | 401,000           | 449,000           |
| Quebec Harbour Commission.....           | 2,888,000         | 2,821,000         | 3,491,000         | 1,379,000         | 341,000           | 106,914           |
| Vancouver Harbour Commission.....        | 1,596,000         | 345,000           | 2,802,000         | 809,000           | 112,000           | 1,208,299         |
| Halifax Harbour Commission.....          | 30,000            | 1,272,000         | 3,539,000         | 2,752,000         | 1,025,339         | 151,258           |
| Chicoutimi Harbour Commission.....       | 500,000           | 815,000           | 846,000           | 465,000           | 324,000           | 332,100           |
| Saint John Harbour Commission.....       | 602,000           | 1,711,000         | 1,004,000         | 5,763,855         | 2,620,117         | 829,190           |
| Three Rivers Harbour Commission.....     | —                 | 136,000           | 1,543,600         | 747,568           | 160,000           | 107,000           |
| New Westminster Harbour Commission.....  | —                 | —                 | —                 | 189,140           | 56,094            | 12,614            |
| Miscellaneous and unforeseen.....        | 2,200             | —                 | 1,235             | 960               | 11,236            | 58,897            |
| <b>Grand Totals.....</b>                 | <b>18,167,190</b> | <b>23,508,502</b> | <b>27,486,720</b> | <b>25,056,916</b> | <b>14,258,409</b> | <b>12,208,231</b> |

**Steamboat Inspection.**—The Steamboat Inspection Service of Canada, maintained under the authority of the Department of Marine, comprises the Board of Steamboat Inspection, together with staffs of inspectors at the principal ocean and inland ports. The Board decides on the standards required of all vessels coming under its jurisdiction. These must be attained by all ships given official warrant as to their seaworthiness and mechanical condition. Further, the Board grants certificates of competency to engineers of steamboats.

Table 65 shows the numbers and tonnages of steamboats inspected, not inspected, and subject to inspection; vessels added to the Dominion Register; and vessels lost, broken up, or destroyed, by Inspection Divisions, during the fiscal years ended Mar. 31, 1933 and 1934.

**65.—Steamboat Inspection, fiscal years ended Mar. 31, 1933 and 1934.**

| Division.        | Vessels Inspected.                           |                |                                        |                | Vessels not Inspected. |                |
|------------------|----------------------------------------------|----------------|----------------------------------------|----------------|------------------------|----------------|
|                  | Vessels Registered or Owned in the Dominion. |                | Vessels Registered or Owned Elsewhere. |                |                        |                |
| 1933.            | No.                                          | gross tonnage. | No.                                    | gross tonnage. | No.                    | gross tonnage. |
| Halifax.....     | 105                                          | 112,333        | 15                                     | 55,455         | 24                     | 82,930         |
| Saint John.....  | 46                                           | 44,142         | 2                                      | 11,228         | 63                     | 33,450         |
| Quebec.....      | 65                                           | 38,610         | —                                      | —              | 12                     | 4,483          |
| Sorel.....       | 77                                           | 48,403         | —                                      | —              | 41                     | 14,484         |
| Montreal.....    | 111                                          | 75,018         | 5                                      | 14,441         | 103                    | 95,845         |
| Kingston.....    | 87                                           | 103,759        | 8                                      | 676            | 24                     | 31,270         |
| Toronto.....     | 202                                          | 306,475        | 40                                     | 53,837         | 28                     | 41,418         |
| Midland.....     | 65                                           | 89,201         | 1                                      | 39             | 37                     | 10,780         |
| Collingwood..... | 75                                           | 22,471         | —                                      | —              | 30                     | 5,616          |
| Port Arthur..... | 57                                           | 56,641         | 1                                      | 66             | 89                     | 7,645          |
| Vancouver.....   | 190                                          | 86,380         | 12                                     | 78,324         | 128                    | 63,921         |
| Victoria.....    | 54                                           | 59,112         | 13                                     | 61,769         | 33                     | 33,068         |
| Totals.....      | 1,134                                        | 1,042,545      | 97                                     | 275,835        | 617                    | 424,910        |

**65.—Steamboat Inspection, fiscal years ended Mar. 31, 1933 and 1934—concluded.**

| Division.        | Vessels Inspected.                           |                |                                        |                | Vessels not Inspected. |                |
|------------------|----------------------------------------------|----------------|----------------------------------------|----------------|------------------------|----------------|
|                  | Vessels Registered or Owned in the Dominion. |                | Vessels Registered or Owned Elsewhere. |                |                        |                |
|                  | No.                                          | gross tonnage. | No.                                    | gross tonnage. | No.                    | gross tonnage. |
| 1934.            |                                              |                |                                        |                |                        |                |
| Halifax.....     | 98                                           | 121,053        | 19                                     | 80,169         | 17                     | 4,799          |
| Saint John.....  | 42                                           | 50,745         | 2                                      | 11,228         | 54                     | 33,940         |
| Quebec.....      | 61                                           | 41,325         | —                                      | —              | 19                     | 6,206          |
| Sorel.....       | 62                                           | 37,292         | —                                      | —              | 55                     | 28,062         |
| Montreal.....    | 125                                          | 83,735         | 2                                      | 7,278          | 74                     | 11,131         |
| Kingston.....    | 77                                           | 86,775         | 3                                      | 351            | 22                     | 32,354         |
| Toronto.....     | 200                                          | 326,731        | 32                                     | 42,788         | 25                     | 32,066         |
| Midland.....     | 59                                           | 71,542         | 1                                      | 39             | 38                     | 21,468         |
| Collingwood..... | 76                                           | 22,593         | —                                      | —              | 32                     | 3,031          |
| Port Arthur..... | 63                                           | 64,622         | 1                                      | 2,944          | 87                     | 20,693         |
| Vancouver.....   | 201                                          | 97,777         | 12                                     | 78,261         | 96                     | 42,329         |
| Victoria.....    | 61                                           | 56,858         | 10                                     | 67,486         | 26                     | 24,006         |
| Totals.....      | 1,125                                        | 1,661,048      | 82                                     | 230,544        | 545                    | 260,085        |

| Division.        | Vessels Subject to Inspection when in Commission. |           | Vessels Added to the Dominion Register. |              | Vessels Lost, Broken Up or Destroyed. |       |
|------------------|---------------------------------------------------|-----------|-----------------------------------------|--------------|---------------------------------------|-------|
|                  | No.                                               |           | No.                                     |              | No.                                   |       |
|                  | gross tonnage.                                    |           | gross tonnage.                          |              | gross tonnage.                        |       |
| 1933.            |                                                   |           |                                         |              |                                       |       |
| Halifax.....     | 144                                               | 250,718   | 5                                       | 2,875        | 3                                     | 278   |
| Saint John.....  | 111                                               | 88,820    | 1                                       | 1,396        | 1                                     | 582   |
| Quebec.....      | 77                                                | 43,093    | 2                                       | 503          | 1                                     | 112   |
| Sorel.....       | 118                                               | 62,887    | 1                                       | 948          | 3                                     | 519   |
| Montreal.....    | 219                                               | 185,304   | 5                                       | 1,078        | —                                     | —     |
| Kingston.....    | 119                                               | 135,705   | 1                                       | 22           | 2                                     | 2,032 |
| Toronto.....     | 270                                               | 401,730   | 3                                       | 3,967        | 3                                     | 2,429 |
| Midland.....     | 103                                               | 100,020   | —                                       | —            | 1                                     | 29    |
| Collingwood..... | 105                                               | 28,087    | 4                                       | 1,398        | 4                                     | 165   |
| Port Arthur..... | 147                                               | 64,352    | 1                                       | 38           | 1                                     | 36    |
| Vancouver.....   | 330                                               | 228,625   | 1                                       | 40           | 2                                     | 53    |
| Victoria.....    | 105                                               | 153,949   | —                                       | —            | 3                                     | 2,132 |
| Totals.....      | 1,848                                             | 1,743,290 | 24                                      | 12,265       | 24                                    | 8,367 |
| 1934.            |                                                   |           |                                         |              |                                       |       |
| Halifax.....     | 134                                               | 206,021   | —                                       | —            | 3                                     | 276   |
| Saint John.....  | 98                                                | 95,913    | —                                       | —            | 1                                     | 254   |
| Quebec.....      | 80                                                | 47,531    | 1                                       | 676          | —                                     | —     |
| Sorel.....       | 117                                               | 65,354    | —                                       | —            | 4                                     | 578   |
| Montreal.....    | 201                                               | 102,144   | 1                                       | (not reg'd.) | 2                                     | 279   |
| Kingston.....    | 102                                               | 119,480   | —                                       | —            | —                                     | —     |
| Toronto.....     | 257                                               | 401,585   | 2                                       | 3,866        | —                                     | —     |
| Midland.....     | 98                                                | 93,049    | 2                                       | 58           | 3                                     | 521   |
| Collingwood..... | 108                                               | 25,624    | 4                                       | 74           | 3                                     | 306   |
| Port Arthur..... | 151                                               | 88,259    | 3                                       | 48           | 1                                     | 28    |
| Vancouver.....   | 309                                               | 218,367   | —                                       | —            | 6                                     | 2,135 |
| Victoria.....    | 97                                                | 148,350   | 2                                       | 1,271        | 1                                     | 89    |
| Totals.....      | 1,752                                             | 1,611,677 | 15                                      | 5,993        | 24                                    | 4,466 |

**Seamen Shipped and Discharged.**—Table 66 shows, for each year from 1908 to 1933, the number of seamen shipped and discharged at Canadian ports under the provisions of the Canada Shipping Act (R.S.C., 1927, c. 186).

**66.—Number of Seamen Shipped and Discharged at Canadian Ports, calendar years 1908-33.**

| Year.     | Seamen Shipped. | Seamen Discharged. | Year.     | Seamen Shipped. | Seamen Discharged. |
|-----------|-----------------|--------------------|-----------|-----------------|--------------------|
| 1908..... | 18,013          | 11,542             | 1921..... | 18,444          | 17,103             |
| 1909..... | 20,502          | 11,573             | 1922..... | 25,689          | 24,568             |
| 1910..... | 16,735          | 11,069             | 1923..... | 31,407          | 30,195             |
| 1911..... | 13,748          | 11,301             | 1924..... | 30,687          | 29,018             |
| 1912..... | 13,708          | 11,290             | 1925..... | 31,772          | 28,472             |
| 1913..... | 16,975          | 13,749             | 1926..... | 31,869          | 27,413             |
| 1914..... | 18,987          | 14,989             | 1927..... | 28,137          | 25,863             |
| 1915..... | 22,797          | 14,319             | 1928..... | 28,748          | 25,763             |
| 1916..... | 20,902          | 16,689             | 1929..... | 31,374          | 29,483             |
| 1917..... | 16,998          | 14,145             | 1930..... | 26,983          | 25,670             |
| 1918..... | 16,516          | 12,930             | 1931..... | 24,891          | 24,289             |
| 1919..... | 18,208          | 13,649             | 1932..... | 25,313          | 23,472             |
| 1920..... | 22,569          | 19,719             | 1933..... | 27,038          | 23,148             |

**Wrecks and Casualties.**—The figures of Table 67, supplied by the Department of Marine, apply to vessels of every nationality in respect of wrecks and casualties in Canadian waters, and to Canadian vessels in respect of wrecks and casualties in other waters. The returns in some years cover wrecks and casualties of previous years. Statistics of marine danger signals appear in Table 68.

**67.—Canadian Wrecks and Casualties, years ended June 30, 1911-17, and calendar years 1918-33.**

NOTE.—For details of the years 1870-1910, see Canada Year Book, 1911, p. 381.

| Year.     | Casualties. | Net Tonnage. | Lives Lost.        | Stated Damages.        | Year.     | Casualties. | Net Tonnage. | Lives Lost. | Stated Damages. |
|-----------|-------------|--------------|--------------------|------------------------|-----------|-------------|--------------|-------------|-----------------|
|           | No.         | tons.        | No.                | \$                     |           | No.         | tons.        | No.         | \$              |
| 1911..... | 271         | 122,619      | 48                 | 942,093                | 1923..... | 376         | 480,713      | 50          | 3,184,749       |
| 1912..... | 293         | 269,569      | 59                 | 1,053,768              | 1924..... | 224         | 215,470      | 54          | 4,355,217       |
| 1913..... | 275         | 270,905      | 160                | 1,963,870              | 1925..... | 298         | 305,798      | 53          | 3,317,020       |
| 1914..... | 255         | 210,368      | 1,083 <sup>1</sup> | 4,983,775              | 1926..... | 300         | 293,310      | 91          | 4,630,267       |
| 1915..... | 280         | 214,036      | 70                 | 1,459,012              | 1927..... | 434         | 566,011      | 128         | 6,879,825       |
| 1916..... | 308         | 242,996      | 67                 | 1,377,442              | 1928..... | 504         | 558,251      | 64          | 5,418,236       |
| 1917..... | 239         | 715,384      | 152                | 4,850,145 <sup>2</sup> | 1929..... | 451         | 459,394      | 12          | 4,740,620       |
| 1918..... | 226         | 312,928      | 402 <sup>3</sup>   | 1,813,895              | 1930..... | 551         | 447,169      | 66          | 3,077,009       |
| 1919..... | 240         | 205,720      | 100                | 1,808,690              | 1931..... | 477         | 404,157      | 7           | 2,696,019       |
| 1920..... | 227         | 222,928      | 28                 | 1,643,825              | 1932..... | 452         | 406,194      | 40          | 3,478,575       |
| 1921..... | 260         | 588,503      | 38                 | 1,809,328              | 1933..... | 445         | 372,545      | 19          | 1,292,618       |
| 1922..... | 277         | 604,423      | 27                 | 451,312                |           |             |              |             |                 |

<sup>1</sup>Includes 1,042 lives lost in the *Empress of Ireland* disaster. <sup>2</sup>Excluding damage to cargo estimated at \$4,310,350. <sup>3</sup>Includes 328 lives lost in the *Princess Sophia* disaster.

### 68.—Comparative Statement of Marine Danger Signals, fiscal years ended Mar. 31, 1923-34.

NOTE.—In addition to the aids to navigation listed in the following table, approximately 9,150 unlighted buoys, balises, dolphins and beacons are maintained.

| Description.                       | 1923. | 1924. | 1925. | 1926. | 1927. | 1928. | 1929. | 1930. | 1931. | 1932. | 1933. | 1934. |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                    | No.   | No.   | No.   | No.   | No.   | No.   | No.   | No.   | No.   | No.   | No.   | No.   |
| Lights.....                        | 1,596 | 1,627 | 1,654 | 1,675 | 1,725 | 1,771 | 1,815 | 1,855 | 1,912 | 1,923 | 1,922 | 1,924 |
| Lightships.....                    | 9     | 10    | 10    | 10    | 11    | 11    | 11    | 11    | 11    | 11    | 11    | 11    |
| Lightkeepers.....                  | 1,105 | 1,119 | 1,134 | 1,143 | 1,156 | 1,179 | 1,192 | 1,207 | 1,227 | 1,230 | 1,230 | 1,226 |
| Fog whistles.....                  | 8     | 9     | 8     | 8     | 8     | 6     | 8     | 8     | 8     | 8     | 8     | 8     |
| Sirens.....                        | 1     | 1     | 1     | 1     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     |
| Diaphones.....                     | 138   | 140   | 146   | 146   | 147   | 153   | 158   | 162   | 165   | 170   | 171   | 171   |
| Fog bells.....                     | 36    | 35    | 35    | 36    | 35    | 36    | 38    | 38    | 38    | 38    | 38    | 38    |
| Hand fog horns.....                | 148   | 147   | 149   | 148   | 148   | 151   | 147   | 151   | 152   | 153   | 154   | 154   |
| Hand fog bells.....                | 4     | 4     | 4     | 4     | 5     | 4     | 4     | 4     | 4     | 4     | 4     | 4     |
| Gas, whistling and bell buoys..... | 349   | 359   | 374   | 374   | 380   | 401   | 411   | 425   | 429   | 436   | 444   | 440   |
| Whistling buoys.....               | 30    | 30    | 32    | 34    | 36    | 38    | 40    | 40    | 40    | 42    | 42    | 41    |
| Bell buoys.....                    | 92    | 95    | 98    | 99    | 101   | 104   | 111   | 119   | 119   | 119   | 122   | 122   |
| Submarine bells.....               | 7     | 7     | 7     | 6     | 6     | 6     | 4     | 4     | 4     | 3     | 2     | 2     |
| Fog guns and bombs.....            | 7     | 7     | 6     | 6     | 6     | 6     | 5     | 5     | 5     | 5     | 5     | 5     |
| Fog alarm stations only.           | 12    | 12    | 13    | 13    | 13    | 13    | 13    | 13    | 13    | 13    | 13    | 13    |

### Section 7.—Merchant Marine Services Operated by the Canadian Government.\*

The War had far-reaching effects upon the merchant shipping of the world. The losses from submarines, the demands for naval auxiliary and transport services, and the abnormally large quantities of material to be carried overseas for both war purposes and the support of the civilian populations of Europe, all combined to create pressing demands for merchant shipping. In the latter part of the War, when submarine operations were intensified, the supply of merchant tonnage became a source of serious anxiety to the Allies and every effort was made not only to economise the shipping then afloat but to increase the supply by new building. It was under these circumstances that the Dominion Government placed orders with Canadian shipbuilding firms for the construction of 63 steel cargo vessels of six different types. These vessels were intended primarily to co-operate with British shipping in supplying the necessities of war, but, though the War ended before the ships were all built, the construction program was continued to provide employment and, in view of the losses of the War, to assure sufficient shipping as a complement to the National Railways and as a means of carrying abroad the products of Canada's farms, forests, mines and factories.

Shipping construction at that time was very costly and this abnormally high first cost has been a serious handicap to the economical operation of the ships ever since. Prior to Dec. 31, 1919, 19 vessels had been delivered by the builders. Additions were subsequently made to the fleet until the total fleet, as at Dec. 31, 1924, numbered 57 vessels of a total deadweight tonnage of 353,450. Through sale and the loss of three vessels the fleet was reduced to 29 vessels with a deadweight tonnage of 96,987 at Dec. 31, 1933. Early operations proved profitable: a surplus of \$1,056,767 was shown for the year ended Dec. 31, 1919 and a surplus of \$1,263,307 for the year ended Dec. 31, 1920 (without provision for interest

\*Revised under the direction of Geo. W. Yates, Assistant Deputy Minister, Department of Railways and Canals, by A. H. Allan, General Manager, Canadian National Steamships, Montreal.



charges). Operating income results from the date of the inception of these services have been as follows, exclusive of interest and depreciation on the original high cost of the vessels. Operating deficits are indicated by a minus sign:—

| Calendar Year. | Operating Results. | Calendar Year. | Operating Results. |
|----------------|--------------------|----------------|--------------------|
|                | \$                 |                | \$                 |
| 1919.....      | 1,056,767          | 1927.....      | -720,735           |
| 1920.....      | 1,263,307          | 1928.....      | -1,209,083         |
| 1921.....      | -2,325,906         | 1929.....      | -878,907           |
| 1922.....      | -2,470,089         | 1930.....      | -834,210           |
| 1923.....      | -1,873,695         | 1931.....      | -444,285           |
| 1924.....      | -1,450,887         | 1932.....      | -326,613           |
| 1925.....      | -926,844           | 1933.....      | -17,938            |
| 1926.....      | -90,159            |                |                    |

In conformity with the Canada-West Indies Trade Agreement Act of 1926 (16-17 Geo. V, c. 16), the Dominion Government has provided direct steamship services to the West Indies through the medium of Canadian National (West Indies) Steamships, Ltd. The service is provided by a fleet of eleven vessels of a total deadweight tonnage of 63,426. Five of these boats, known as the "Lady" ships, were specially constructed for passenger service on this route, while the remaining seven vessels previously formed part of the Canadian Government Merchant Marine fleet, and were taken over by the Canadian National (West Indies) Steamships, Ltd., for operating purposes, under entrusting agreements with the respective companies which owned the ships. The investment in vessels at Dec. 31, 1933, amounted to \$10,665,567, mainly made up of the construction cost of the "Lady" ships and the present-day valuation of the other seven ships, together with the cost of conversion for use in the West Indies service of three of the latter. The financial results of the operations of the Canadian National (West Indies) Steamships, Ltd., have been as follows:—

| Calendar Year. | Operating Revenues. | Operating Expenses. | Net Operating Loss. | Depreciation. | Interest. | Book Loss. |
|----------------|---------------------|---------------------|---------------------|---------------|-----------|------------|
|                | \$                  | \$                  | \$                  | \$            | \$        | \$         |
| 1929.....      | 3,332,683           | 3,780,524           | 447,841             | 227,315       | 442,739   | 1,117,895  |
| 1930.....      | 3,792,694           | 4,315,831           | 523,137             | 288,999       | 550,519   | 1,362,655  |
| 1931.....      | 3,648,986           | 4,095,555           | 446,569             | 294,141       | 604,651   | 1,345,361  |
| 1932.....      | 3,323,077           | 3,606,793           | 283,716             | 321,261       | 688,037   | 1,293,014  |
| 1933.....      | 2,956,974           | 3,454,972           | 497,997             | 299,520       | 674,724   | 1,472,241  |

## PART X.—TELEGRAPHS.\*

The Toronto, Hamilton and Niagara Electro-Magnetic Telegraph Co., organized by a group of Toronto men, was the first to establish an electric telegraph service in the pre-Confederation Province of Canada. It was formally organized on Oct. 22, 1846, and its Toronto-Hamilton line was opened on Dec. 19 of the same year. In January, 1847, the line was completed to Queenston, whence there was a connecting line to Buffalo. The Montreal Telegraph Co. commenced the construction of a line to Toronto in February, 1847, and began actual operation between the two cities on Aug. 3 of the same year. By the end of the year it had 540 miles of wire in use, 9 offices and 35 employees, and had sent out 33,000 messages. Both the Montreal and the Toronto companies were incorporated by special Acts at the 1847 session of the Legislature. In 1852 the Toronto, Hamilton and Niagara Co. sold out to the Montreal company.

The British North American Electrical Association was also formed in 1847, with the object of connecting Quebec with the Maritime Provinces, but for some years its line went no further than Rivière du Loup, though it was finally extended to Woodstock, N.B., where it connected with the American Telegraph Co., which already had lines in New Brunswick. The New Brunswick Telegraph Co. built a line connecting Saint John with the Maine Lines in 1848, and in the following year extended it to Amherst, N.S., where it connected with the Nova Scotia line, bringing Halifax for the first time into telegraphic communication with New York.

The movement for consolidation of services, so evident in the Canadian railways, was also active among the telegraph companies. Thus the Montreal company bought out the Toronto, Hamilton and Niagara Telegraph Co., the Montreal and Bytown Telegraph Co. and the Grand Trunk Telegraph Co., and maintained a strenuous competition with the Dominion Telegraph Co., organized in 1868. In 1881, however, the conflicting interests were consolidated under lease by the Great North Western Telegraph Co., this move effecting great economies in operation. A few years later, however, the Canadian Pacific Railway Co. established competing lines and by September, 1886, had opened 366 offices in Ontario, Quebec and Western Canada.

**Dominion Government Telegraph Service.**—This service is operated by the Telegraph Branch of the Department of Public Works. Its general object has been to furnish rapid communication for outlying and sparsely settled districts where the amount of business is so small that commercial companies will not enter the field but where the public interests require that there should be communication. Thus these facilities include: telegraph and telephone services to scattered settlements around the coasts of Cape Breton island; cable services to Campobello, Grand Manan and other islands in the bay of Fundy, to Prince Edward Island, Magdalen islands and Anticosti island in the gulf of St. Lawrence; telegraph or telephone services along the north shore of the gulf of St. Lawrence from Quebec to the straits of Belle Isle; cable connections with Pelee and Manitoulin islands in Ontario; some lines to northern outlying districts in Saskatchewan; lines from Edmonton to the Athabasca and Peace River country in Alberta; telegraph or telephone communications around the coast of Vancouver island and to fishing, lumbering and mining settlements along the coast of the mainland of British Columbia, as well as to isolated

\*Revised by G. S. Wrong, B.Sc., Chief of the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics, which issues an annual report dealing with telegraph statistics.

mining centres in the interior; and finally the overland telegraph line to Dawson and other settlements in Yukon. All these services, on Mar. 31, 1934, comprised 8,864 miles of pole line, 10,782 miles of wire, 326 knots of cable and 705 offices, with 422 salaried employees engaged in operation and maintenance, as well as 242 other persons operating offices on a commission basis. The lines in operation amounted to 3,797 miles of pole line in British Columbia and an additional 535 miles in Yukon, 1,671 miles in Quebec, 1,442 in Alberta and 877 miles in Nova Scotia, as well as smaller mileages in New Brunswick, Ontario and Saskatchewan.

**Telegraph Systems.**—The Canadian telegraph systems are composed of lines owned by the Dominion Government and by chartered railway and telegraph companies. The lines previously owned by the Great North Western Telegraph Co., the Grand Trunk Pacific Telegraph Co., the Canadian Northern Railway Co and the National Transcontinental Railway are now owned by the Government and are operated by the Canadian National Telegraph Co. (formerly Great North Western Telegraph Co.). The Dominion Government Telegraph Service operates the line to Yukon and other lines in outlying districts.

The Canadian system, in proportion to population, is one of the most extensive in the world, and is operated under considerable climatic and geographic disadvantages. In the operation of railways and in the receipt and dispatch of market and press reports, its services to the nation are invaluable.

**Telegraph Statistics.**—A brief summary table giving the more important figures of the operation of Canadian telegraphs from 1920 to 1933 follows. For details see the Annual Report on Telegraph Statistics published by the Bureau of Statistics.

69.—Summary Statistics of All Canadian Telegraphs, calendar years 1920-33.

| Year.  | Gross Revenue. | Operating Expenses. | Net Operating Revenue. | Pole Line Mileage.  | Wire Mileage. | Employees.         | Offices. | Messages, Land. | Cable-grams. <sup>3</sup> | Money Transferred. |
|--------|----------------|---------------------|------------------------|---------------------|---------------|--------------------|----------|-----------------|---------------------------|--------------------|
|        | \$             | \$                  | \$                     | miles.              | miles.        | No.                | No.      | No.             | No.                       | \$                 |
| 1920.. | 11,337,428     | 9,589,982           | 1,747,446              | 52,393              | 238,866       | 7,508              | 4,825    | 15,589,711      | 1,162,204                 | 7,045,661          |
| 1921.. | 11,310,989     | 9,734,299           | 1,576,690              | 52,828              | 250,802       | 7,818              | 4,901    | 15,013,993      | 1,154,787                 | 5,150,916          |
| 1922.. | 11,018,762     | 9,846,425           | 1,172,337              | 53,096              | 262,343       | 8,500              | 4,762    | 15,271,410      | 4,736,204                 | 4,404,407          |
| 1923.. | 11,417,284     | 9,931,815           | 1,485,439              | 53,383              | 270,782       | 8,275              | 4,961    | 16,150,106      | 5,055,115                 | 5,326,352          |
| 1924.. | 10,930,020     | 9,603,620           | 1,326,400              | 54,742              | 268,632       | 8,909              | 4,945    | 15,460,811      | 5,790,582                 | 6,428,080          |
| 1925.. | 11,520,322     | 9,681,200           | 1,839,122              | 51,726 <sup>1</sup> | 284,121       | 7,224 <sup>2</sup> | 4,664    | 14,460,988      | 6,104,025                 | 6,680,595          |
| 1926.. | 12,143,388     | 10,166,040          | 1,977,348              | 52,612 <sup>1</sup> | 305,933       | 6,755 <sup>2</sup> | 4,801    | 14,934,683      | 6,421,673                 | 7,790,127          |
| 1927.. | 12,990,549     | 10,600,412          | 2,390,137              | 52,731 <sup>1</sup> | 323,539       | 7,338 <sup>2</sup> | 4,885    | 15,564,067      | 6,664,771                 | 9,241,864          |
| 1928.. | 14,740,641     | 11,647,063          | 3,093,578              | 53,777 <sup>1</sup> | 337,971       | 7,639 <sup>2</sup> | 4,909    | 16,857,220      | 6,861,195                 | 9,776,090          |
| 1929.. | 16,256,441     | 12,590,364          | 3,666,077              | 52,835 <sup>1</sup> | 360,883       | 8,056 <sup>2</sup> | 4,766    | 18,029,973      | 5,210,926                 | 11,295,857         |
| 1930.. | 14,264,997     | 11,791,291          | 2,473,706              | 52,824 <sup>1</sup> | 371,747       | 7,331 <sup>2</sup> | 4,661    | 15,558,224      | 6,745,220                 | 10,213,475         |
| 1931.. | 11,641,729     | 10,720,949          | 920,780                | 53,228 <sup>1</sup> | 368,583       | 6,637 <sup>2</sup> | 4,474    | 13,200,198      | 6,097,713                 | 7,475,928          |
| 1932.. | 9,381,075      | 9,020,052           | 361,023                | 52,362 <sup>1</sup> | 366,142       | 5,788 <sup>2</sup> | 4,248    | 10,519,433      | 5,664,171                 | 4,698,660          |
| 1933.. | 9,267,715      | 8,122,964           | 1,144,751              | 52,112 <sup>1</sup> | 365,489       | 5,263 <sup>2</sup> | 4,115    | 10,135,653      | 5,504,227                 | 3,632,910          |

<sup>1</sup>Excluding U.S. lines of Canadian National Telegraphs. <sup>2</sup>Excluding railway employees.

<sup>3</sup>Including transatlantic cablegrams relayed between Canso, N.S., and the United States.

Table 70 gives figures of telegraph operation and line and wire mileage of various companies for the years 1929 to 1933. Statistics of the Halifax and Bermudas Cable Co., the Canadian Marconi Wireless Telegraph Co. and the Pacific Cable Board are not included.

**70.—Statistics of Chartered Telegraph Companies for the calendar years 1929-33.**

| Company.                                                                             | Yrs. | Miles<br>of<br>Line. | Miles<br>of<br>Wire. | Number<br>of<br>Messages. <sup>1</sup> | Number<br>of<br>Offices. <sup>3</sup> |
|--------------------------------------------------------------------------------------|------|----------------------|----------------------|----------------------------------------|---------------------------------------|
| Canadian National Telegraph Co. ....<br>(Formerly Great North Western Telegraph Co.) | 1929 | 24,565               | 166,121              | 9,488,208                              | 2,135                                 |
|                                                                                      | 1930 | 24,828               | 169,163              | 8,570,571                              | 2,130                                 |
|                                                                                      | 1931 | 24,627               | 166,594              | 7,274,795                              | 2,092                                 |
|                                                                                      | 1932 | 24,013               | 166,172              | 5,562,277                              | 2,011                                 |
|                                                                                      | 1933 | 24,013               | 165,053              | 5,468,221                              | 1,937                                 |
| Canadian Pacific Railway Co. ....                                                    | 1929 | 16,794               | 167,664              | 7,259,205 <sup>2</sup>                 | 1,642                                 |
|                                                                                      | 1930 | 16,919               | 172,210              | 6,216,491 <sup>2</sup>                 | 1,639                                 |
|                                                                                      | 1931 | 17,522               | 175,568              | 5,266,094 <sup>2</sup>                 | 1,535                                 |
|                                                                                      | 1932 | 17,490               | 175,720              | 4,402,696 <sup>2</sup>                 | 1,394                                 |
|                                                                                      | 1933 | 17,477               | 176,423              | 4,202,188 <sup>2</sup>                 | 1,390                                 |
| Western Union. ....                                                                  | 1929 | 1,178                | 10,910               | 414,506                                | 4                                     |
|                                                                                      | 1930 | 1,177                | 10,991               | 4                                      | 4                                     |
|                                                                                      | 1931 | 1,186                | 11,015               | 4                                      | 4                                     |
|                                                                                      | 1932 | 1,184                | 9,368                | 4                                      | 4                                     |
|                                                                                      | 1933 | 1,185                | 9,390                | 4                                      | 4                                     |
| Temiskaming and Northern Ont. Ry. Commission                                         | 1929 | 450                  | 3,288                | 128,852                                | 38                                    |
|                                                                                      | 1930 | 549                  | 3,513                | 116,934                                | 41                                    |
|                                                                                      | 1931 | 593                  | 3,285                | 117,990                                | 38                                    |
|                                                                                      | 1932 | 593                  | 3,111                | 101,294                                | 35                                    |
|                                                                                      | 1933 | 593                  | 3,111                | 96,906                                 | 35                                    |
| The North American Telegraph Co., Ltd. ....                                          | 1929 | -                    | 445                  | 87,514                                 | 18                                    |
|                                                                                      | 1930 | -                    | 445                  | 78,682                                 | 18                                    |
|                                                                                      | 1931 | -                    | 445                  | 69,067                                 | 16                                    |
|                                                                                      | 1932 | -                    | 445                  | 57,571                                 | 16                                    |
|                                                                                      | 1933 | -                    | 445                  | 54,738                                 | 15                                    |
| Dominion Government Telegraph Service. ....                                          | 1929 | 9,848                | 12,455               | 537,080                                | 895                                   |
|                                                                                      | 1930 | 9,351                | 11,399               | 495,562                                | 796                                   |
|                                                                                      | 1931 | 9,300                | 11,666               | 411,806                                | 756                                   |
|                                                                                      | 1932 | 9,077                | 11,316               | 336,256                                | 756                                   |
|                                                                                      | 1933 | 8,844                | 11,052               | 254,910                                | 703                                   |

<sup>1</sup>Cablegrams not included. The total in Table 69 includes messages handled by the Marconi Wireless Telegraph Co. <sup>2</sup>Not including press messages. <sup>3</sup>The total in Table 69 includes offices of wireless and cable companies. <sup>4</sup>Included with Canadian National.

**Submarine Cables.**—Six transoceanic cables have termini in Canada—five of them on the Atlantic coast and one on the Pacific. The year in which the cable was first demonstrated to be of commercial value was 1866, and up to the present its use has greatly increased. The Atlantic cables are controlled by English and United States' interests. The Pacific cable, from Canada to Australia and New Zealand, has been in operation since 1902, and was owned by a partnership of the Governments of Great Britain, New Zealand, Australia and Canada. As a result of the recommendation of the Imperial Wireless and Cable Conference of 1928, in view of increased wireless competition, it was decided to dispose of the Pacific and West Indian Islands cable systems to the Imperial and International Communication Co., a company formed to take over all Empire-owned cables and lease the Empire-owned beam wireless systems. The necessary legislation was passed by the United Kingdom in February, 1929, and by Canada in June, 1929.



## PART XI.—TELEPHONES.\*

The telephone is in part a Canadian invention, though its inventor, Alexander Graham Bell, a Scotsman by birth, was at the time of its invention a resident of the United States, having immigrated with his father to Brantford, Ontario, in 1870, and subsequently proceeded to Boston. According to his account, the discovery of the telephone, both as to its main principle and as to the first transmission of the human voice, was made at his father's residence at Tutela Heights, Brantford, in 1876, and the first telephone talk over any distance was conducted between Brantford and Paris, a distance of 8 miles, on Aug. 10, 1876.

Telephone development in Canada dates from the year 1880, when the Bell Telephone Co. was incorporated by Act of Parliament. Although at this time all patents and lines were owned by the Canadian Telephone Co., this was dependent on the Bell Co., to which it sold out in 1882. By 1883 the first submarine telephone cable had been laid between Windsor and Detroit, and during the year the Bell Co. operated in Canada 4,400 rental-earning telephones, 44 exchanges and 40 agencies, with 600 miles of long-distance wire. It controlled development in all the provinces except British Columbia, where the greater part of the system has always been in the hands of the British Columbia Telephone Co., Ltd.

With the rapid growth of private companies in the Maritime Provinces, the lines of the Bell Co. were disposed of in 1888 to the Maritime Telegraph and Telephone Co. in Nova Scotia, and to the New Brunswick Telephone Co. in New Brunswick, an interest in these corporations being retained under the terms of sale. A development of a different kind is seen in the three Prairie Provinces, where well-organized systems were sold to the Governments of Manitoba and Alberta in 1908 and to Saskatchewan in 1909. The lines in Ontario and Quebec are still largely owned by the Bell Telephone Co.

**Telephone Systems.**—The 2,403 telephone systems existing in 1933 (Table 72) include the three large provincial systems in Manitoba, Saskatchewan and Alberta, and a smaller governmental system in Ontario, together with the system operated by the National Parks of Canada, Department of the Interior. There were also 142 municipal systems, the largest operated by the cities of Edmonton, Fort William and Port Arthur. Out of the 1,503 co-operative telephone companies, no fewer than 1,169 were in Saskatchewan alone and 211 in Nova Scotia. Besides the above, there were 539 stock companies, 95 partnerships and 117 systems privately operated.

A summary of the principal statistics is contained in Table 71. Up to 1930 there had been a steady growth in the use of telephones, the number reaching a peak at 1,402,861, but in 1931, 1932 and 1933 decreases of 2·7 per cent, 7·5 per cent and 5·5 per cent, respectively, were recorded. The number of telephones per capita is, however, second only to that of the United States, the numbers being 13·94 telephones per 100 population in the United States and 11·16 in Canada. By provinces the numbers of telephones were in 1933: Ontario 543,907, Quebec 259,530, British Columbia 116,528, Saskatchewan 74,258, Manitoba 61,874, Alberta 57,429, Nova Scotia 43,556, New Brunswick 29,750, Prince Edward Island 5,348, and Yukon 150. The numbers of instruments per 100 population were as follows: British Columbia 16·4, Ontario 15·4, Quebec 8·7, Manitoba 8·6, Nova Scotia 8·3, Saskatchewan 7·8, Alberta 7·6, New Brunswick 7·1, Prince Edward Island 6·0 and Yukon 3·8.

\*Revised by G. S. Wrong, B.Sc., Chief of the Transportation and Public Utilities Branch of the Dominion Bureau of Statistics, which issues an annual report dealing with telephone statistics.

Estimates of the numbers of telephone conversations during 1933 were 2,247,144,000 local and 24,437,452 long-distance calls. Systems operating almost 90 p.c. of all telephones in Canada made estimates by actual count on days of normal business, and, after adjusting for uncompleted calls, holidays, Sundays, etc., the average was multiplied by 365. The long-distance calls in practically all cases were the actual long-distance calls put through or completed. The averages were 1,885 local and 21 long-distance calls per telephone and 213 telephone conversations per capita as compared with 223 in 1932. The estimated per capita average for the United States in 1932 was 205 and for New Zealand, 206.

Statistics of the number of telephone companies reporting to the Dominion Bureau of Statistics are given in Tables 72 and 73.

**71.—Summary Financial Statistics of Telephones in Canada, years ended June 30, 1911-18, and Dec. 31, 1919-33.**

| Year.  | Capitalization. |              | Cost of Property. | Gross Revenue. | Operating Expenses. | Net Operating Revenue. | Salaries and Wages, <sup>1</sup> | Systms. | Telephones. | Telephones per 100 Population. |
|--------|-----------------|--------------|-------------------|----------------|---------------------|------------------------|----------------------------------|---------|-------------|--------------------------------|
|        | Capital Stock.  | Funded Debt. |                   |                |                     |                        |                                  |         |             |                                |
|        | \$              | \$           | \$                | \$             | \$                  | \$                     | \$                               | No.     | No.         | No.                            |
| 1911.. | 21,527,375      | 18,516,608   | 34,737,530        | 10,068,220     | 6,979,045           | 3,089,175              | 915,636                          | 537     | 302,759     | 4.2                            |
| 1912.. | 21,533,605      | 24,743,247   | 56,887,799        | 12,273,627     | 9,094,689           | 3,178,938              | 2,659,642                        | 683     | 370,884     | 5.0                            |
| 1913.. | 26,590,501      | 33,256,503   | 69,214,971        | 14,879,278     | 11,175,689          | 3,721,589              | 6,839,399                        | 1,075   | 463,671     | 6.2                            |
| 1914.. | 28,644,340      | 41,647,554   | 80,258,356        | 17,297,269     | 12,882,402          | 4,414,867              | 8,250,253                        | 1,136   | 521,144     | 6.8                            |
| 1915.. | 28,947,122      | 45,337,869   | 83,792,583        | 17,601,673     | 12,836,715          | 6,764,958              | 8,357,029                        | 1,396   | 533,090     | 6.8                            |
| 1916.. | 29,416,956      | 47,503,356   | 88,520,020        | 18,594,268     | 11,147,201          | 7,447,067              | 7,852,719                        | 1,592   | 548,421     | 6.8                            |
| 1917.. | 29,476,367      | 49,645,335   | 94,469,534        | 20,122,282     | 12,095,426          | 8,026,856              | 8,882,593                        | 1,695   | 604,136     | 7.4                            |
| 1918.. | 29,803,090      | 55,471,601   | 104,368,628       | 22,753,280     | 13,644,518          | 9,108,756              | 10,410,807                       | 2,007   | 662,330     | 8.0                            |
| 1919.. | 35,227,233      | 65,360,600   | 125,017,222       | 29,401,006     | 20,081,436          | 9,319,570              | 15,774,586                       | 2,219   | 778,758     | 9.2                            |
| 1920.. | 36,149,838      | 80,539,367   | 144,560,969       | 33,473,712     | 28,644,401          | 5,429,311              | 17,294,405                       | 2,327   | 856,266     | 9.9                            |
| 1921.. | 42,194,426      | 90,343,345   | 158,678,229       | 36,986,913     | 30,080,035          | 6,906,878              | 19,000,422                       | 2,365   | 902,090     | 10.3                           |
| 1922.. | 48,968,198      | 94,833,825   | 167,332,932       | 39,559,149     | 29,966,181          | 9,592,968              | 17,305,759                       | 2,387   | 944,029     | 10.6                           |
| 1923.. | 57,366,675      | 95,306,347   | 179,002,152       | 42,132,959     | 32,390,370          | 10,266,285             | 18,182,429                       | 2,459   | 1,009,203   | 11.1                           |
| 1924.. | 63,798,133      | 96,216,887   | 193,884,378       | 44,322,598     | 33,615,886          | 10,706,912             | 18,293,234                       | 2,466   | 1,072,454   | 11.6                           |
| 1925.. | 65,514,130      | 102,653,161  | 210,535,795       | 47,233,617     | 35,566,947          | 11,666,670             | 19,106,383                       | 2,495   | 1,142,876   | 12.2                           |
| 1926.. | 68,345,999      | 110,805,099  | 227,155,900       | 50,522,859     | 38,141,360          | 12,381,499             | 25,219,493                       | 2,479   | 1,201,008   | 12.8                           |
| 1927.. | 76,460,540      | 115,981,955  | 243,999,135       | 56,907,338     | 48,561,916          | 8,345,422              | 26,254,605                       | 2,462   | 1,259,987   | 13.2                           |
| 1928.. | 85,913,239      | 121,528,627  | 263,201,651       | 61,791,333     | 51,542,544          | 10,248,789             | 28,501,378                       | 2,447   | 1,334,534   | 13.8                           |
| 1929.. | 93,737,979      | 141,205,328  | 291,589,148       | 65,240,610     | 56,559,517          | 8,681,093              | 31,672,277                       | 2,415   | 1,382,822   | 14.1                           |
| 1930.. | 102,777,267     | 155,411,716  | 319,101,191       | 69,420,459     | 61,886,340          | 7,534,119              | 32,085,948                       | 2,414   | 1,402,861   | 14.1                           |
| 1931.. | 105,765,685     | 168,224,084  | 333,055,119       | 66,806,580     | 60,067,016          | 6,739,564              | 28,493,257                       | 2,399   | 1,364,200   | 13.1                           |
| 1932.. | 129,017,760     | 157,734,489  | 333,169,486       | 60,684,992     | 55,344,023          | 5,340,969              | 24,115,545                       | 2,414   | 1,261,245   | 12.0                           |
| 1933.. | 129,192,363     | 150,906,663  | 330,490,878       | 56,062,970     | 50,423,641          | 5,639,329              | 21,276,406                       | 2,403   | 1,192,330   | 11.2                           |

<sup>1</sup>Includes salaries and wages chargeable to capital account. For number of employees, see Table 74.

**72.—Number of Telephone Companies in Canada, Classified by Form of Control, 1911-33.<sup>1</sup>**

| Year  | Govern-ment. | Muni-cipal. | Stock | Co-oper-ative. | Part-ner-ship. | Priv-ate. | Total | Year  | Govern-ment. | Muni-cipal. | Stock | Co-oper-ative. | Part-ner-ship. | Priv-ate. | Total |
|-------|--------------|-------------|-------|----------------|----------------|-----------|-------|-------|--------------|-------------|-------|----------------|----------------|-----------|-------|
| 1911. | 3            | 25          | 308   | 101            | 18             | 82        | 537   | 1923. | 5            | 127         | 450   | 1,752          | 1              | 124       | 2,459 |
| 1912. | 3            | 35          | 368   | 133            | 31             | 113       | 683   | 1924. | 5            | 153         | 502   | 1,606          | 63             | 137       | 2,466 |
| 1913. | 4            | 52          | 543   | 262            | 63             | 151       | 1,075 |       |              |             |       |                |                |           |       |
| 1914. | 4            | 58          | 611   | 297            | 48             | 118       | 1,136 | 1925. | 6            | 144         | 502   | 1,551          | 106            | 186       | 2,495 |
| 1915. | 4            | 62          | 584   | 601            | 28             | 117       | 1,396 | 1926. | 6            | 142         | 490   | 1,560          | 107            | 174       | 2,479 |
|       |              |             |       |                |                |           |       | 1927. | 5            | 138         | 496   | 1,552          | 102            | 169       | 2,462 |
| 1916. | 4            | 67          | 622   | 765            | 23             | 111       | 1,592 | 1928. | 5            | 137         | 494   | 1,557          | 93             | 161       | 2,447 |
| 1917. | 5            | 73          | 645   | 841            | 17             | 114       | 1,695 | 1929. | 5            | 137         | 492   | 1,543          | 106            | 132       | 2,415 |
| 1918. | 5            | 74          | 735   | 1,085          | 12             | 96        | 2,007 |       |              |             |       |                |                |           |       |
| 1919. | 5            | 89          | 666   | 1,346          | 18             | 95        | 2,219 | 1930. | 5            | 138         | 506   | 1,537          | 107            | 121       | 2,414 |
| 1920. | 5            | 88          | 647   | 1,495          | 9              | 83        | 2,327 | 1931. | 7            | 138         | 506   | 1,523          | 99             | 126       | 2,399 |
|       |              |             |       |                |                |           |       | 1932. | 7            | 141         | 513   | 1,530          | 97             | 126       | 2,414 |
| 1921. | 5            | 103         | 614   | 1,544          | 7              | 92        | 2,365 | 1933. | 7            | 142         | 539   | 1,503          | 95             | 117       | 2,403 |
| 1922. | 5            | 117         | 693   | 1,474          | —              | 98        | 2,387 |       |              |             |       |                |                |           |       |

<sup>1</sup>The years 1911-18 are from July 1 to June 30. Figures for 1919 to 1933 are for the calendar years.

**73.—Number of Telephone Companies in Canada, by Provinces and Form of Control, Dec. 31, 1933.**

| Province.                 | Govern-<br>ment. |                      | Muni-<br>cipal. | Stock.     | Co-<br>operative. | Private.   | Partner-<br>ship. | Total.       |
|---------------------------|------------------|----------------------|-----------------|------------|-------------------|------------|-------------------|--------------|
|                           | Prov.            | Dom.                 |                 |            |                   |            |                   |              |
| Prince Edward Island..... | -                | -                    | -               | 12         | 36                | 4          | 1                 | 53           |
| Nova Scotia.....          | -                | 1                    | -               | 18         | 211               | 8          | 13                | 250          |
| New Brunswick.....        | -                | 1                    | -               | 18         | 4                 | 5          | 5                 | 32           |
| Quebec.....               | -                | 1                    | -               | 99         | 42                | 26         | 23                | 190          |
| Ontario.....              | 2                | 1                    | 132             | 356        | -                 | 60         | 43                | 594          |
| Manitoba.....             | 1                | -                    | 7               | -          | 7                 | 6          | 7                 | 28           |
| Saskatchewan.....         | 1                | 1                    | 1               | 19         | 1,169             | 2          | -                 | 1,192        |
| Alberta.....              | 2                | 1                    | 1               | 5          | 33                | 4          | 3                 | 48           |
| British Columbia.....     | -                | 1                    | 1               | 11         | 1                 | 1          | -                 | 14           |
| Yukon.....                | -                | 1                    | -               | 1          | -                 | 1          | -                 | 2            |
| <b>Totals.....</b>        | <b>6</b>         | <b>1<sup>1</sup></b> | <b>142</b>      | <b>539</b> | <b>1,503</b>      | <b>117</b> | <b>95</b>         | <b>2,403</b> |

<sup>1</sup>This system is located in the provinces indicated.

In the two following tables, figures are shown giving the numbers of telephones in use, the mileages of wire and the numbers of employees of telephone companies, for the Dominion from 1911 to 1933, and by provinces for the year 1933.

**74.—Telephones in Use Classified by Business, Residential, Rural and Public Pay, Mileages of Wire and Pole Line, and Numbers of Employees, 1911-33.<sup>1</sup>**

| Year. <sup>1</sup> | Telephones in Use. |                   |         |                |           | Pole-<br>line<br>Mileage. | Mileage<br>of Wire. | Em-<br>ployees. <sup>2</sup> |
|--------------------|--------------------|-------------------|---------|----------------|-----------|---------------------------|---------------------|------------------------------|
|                    | Business.          | Resi-<br>dential. | Rural.  | Public<br>Pay. | Total.    |                           |                     |                              |
|                    | No.                | No.               | No.     | No.            | No.       | miles.                    | miles.              | No.                          |
| 1911.....          | -                  | -                 | -       | -              | 302,759   | -                         | 687,782             | 10,425                       |
| 1912.....          | -                  | -                 | -       | -              | 370,884   | -                         | 889,572             | 12,783                       |
| 1913.....          | -                  | -                 | -       | -              | 463,671   | -                         | 1,092,587           | 12,867                       |
| 1914.....          | -                  | -                 | -       | -              | 521,144   | -                         | 1,343,090           | 16,799                       |
| 1915.....          | -                  | -                 | -       | -              | 533,090   | -                         | 1,452,360           | 15,072                       |
| 1916.....          | -                  | -                 | -       | -              | 548,421   | -                         | 1,600,564           | 15,247                       |
| 1917.....          | -                  | -                 | -       | -              | 604,136   | -                         | 1,708,203           | 16,490                       |
| 1918.....          | -                  | -                 | -       | -              | 662,330   | -                         | 1,848,466           | 17,336                       |
| 1919.....          | -                  | -                 | -       | -              | 778,758   | -                         | 2,105,240           | 20,491                       |
| 1920.....          | 260,481            | 390,930           | 204,855 | -              | 856,266   | 161,270                   | 2,105,101           | 21,187                       |
| 1921.....          | 273,498            | 396,384           | 232,208 | -              | 902,090   | 178,093                   | 2,268,271           | 19,943                       |
| 1922.....          | 281,535            | 414,887           | 247,607 | -              | 944,029   | 184,147                   | 2,396,805           | 19,321                       |
| 1923.....          | 303,660            | 444,300           | 261,360 | -              | 1,009,320 | 188,408                   | 2,574,083           | 21,002                       |
| 1924.....          | 281,108            | 509,928           | 265,509 | 15,909         | 1,072,454 | 193,399                   | 2,765,722           | 21,685                       |
| 1925.....          | 297,875            | 556,837           | 268,807 | 19,357         | 1,142,876 | 194,370                   | 3,020,773           | 21,831                       |
| 1926.....          | 311,557            | 597,429           | 270,686 | 21,336         | 1,201,008 | 201,604                   | 3,306,214           | 23,083                       |
| 1927.....          | 324,425            | 637,536           | 275,544 | 22,482         | 1,259,987 | 204,245                   | 3,591,035           | 23,437                       |
| 1928.....          | 345,771            | 684,820           | 280,878 | 23,065         | 1,334,534 | 207,566                   | 3,982,867           | 24,373                       |
| 1929.....          | 366,418            | 724,001           | 269,487 | 22,916         | 1,382,822 | 220,525                   | 4,486,213           | 27,459                       |
| 1930.....          | 373,387            | 740,050           | 264,681 | 24,743         | 1,402,861 | 222,113                   | 4,790,224           | 26,575                       |
| 1931.....          | 369,281            | 723,868           | 245,485 | 25,566         | 1,364,200 | 222,196                   | 4,985,076           | 23,825                       |
| 1932.....          | 351,509            | 663,815           | 220,680 | 25,241         | 1,261,245 | 220,459                   | 5,089,261           | 21,354                       |
| 1933.....          | 341,063            | 617,532           | 209,611 | 24,124         | 1,192,330 | 219,753                   | 5,134,871           | 18,796                       |

<sup>1</sup> Figures for the years 1911-18 are from July 1 to June 30; those for 1919-33 are for calendar years.

<sup>2</sup> Excluding employees on rural lines in Saskatchewan.

**75.—Telephones in Use, Mileage of Wire and Number of Employees, by Provinces, Dec. 31, 1933.**

| Province.          | Telephones in Use. |                   |                |                |                  |                             | Mileage of Wire. | Em-<br>ployees.  |
|--------------------|--------------------|-------------------|----------------|----------------|------------------|-----------------------------|------------------|------------------|
|                    | Busi-<br>ness.     | Resi-<br>dential. | Rural.         | Public<br>Pay. | Total.           | Per 100<br>Popula-<br>tion. |                  |                  |
|                    | No.                | No.               | No.            | No.            | No.              | No.                         | miles.           | No.              |
| P. E. Island.....  | 1,193              | 1,492             | 2,597          | 66             | 5,348            | 6.0                         | 7,764            | 58               |
| Nova Scotia.....   | 10,941             | 21,041            | 10,585         | 989            | 43,556           | 8.3                         | 102,386          | 700              |
| New Brunswick...   | 7,487              | 15,839            | 5,788          | 636            | 29,750           | 7.1                         | 62,562           | 542              |
| Quebec.....        | 87,563             | 140,293           | 24,443         | 7,231          | 259,530          | 8.7                         | 1,230,446        | 4,654            |
| Ontario.....       | 144,053            | 289,100           | 99,949         | 10,805         | 543,907          | 15.4                        | 2,339,702        | 7,833            |
| Manitoba.....      | 19,308             | 30,072            | 10,470         | 2,024          | 61,874           | 8.6                         | 318,184          | 1,029            |
| Saskatchewan.....  | 15,470             | 16,271            | 42,219         | 298            | 74,258           | 7.8                         | 386,259          | 672 <sup>1</sup> |
| Alberta.....       | 19,039             | 27,003            | 10,580         | 807            | 57,429           | 7.6                         | 290,314          | 1,112            |
| British Columbia.. | 35,973             | 76,313            | 2,974          | 1,268          | 116,528          | 16.4                        | 396,683          | 2,187            |
| Yukon.....         | 36                 | 108               | 6              | —              | 150              | 3.8                         | 571              | 9                |
| <b>Totals.....</b> | <b>341,063</b>     | <b>617,532</b>    | <b>209,611</b> | <b>24,124</b>  | <b>1,192,330</b> | <b>11.2</b>                 | <b>5,134,871</b> | <b>18,796</b>    |

<sup>1</sup>Excluding employees on rural lines.

## PART XII.—RADIO.\*

Under the Radiotelegraph Act (c. 195, R.S.C., 1927), the administration of radio within the Dominion was vested in the Department of Marine. Dominion jurisdiction has been questioned by certain of the provinces from time to time, but on Feb. 9, 1932, the Judicial Committee of the Imperial Privy Council ruled that the control and regulation of radio communication is within the jurisdiction of the Dominion Parliament. This decision was a very important one and has done much to further the nationalization of radio broadcasting in Canada. (See pp. 788-789.)

### Section 1.—Radiotelegraphy.

**The Coast Station Radiotelegraph System.**—The present coast station system of 69 stations consists of three chains—one extending from Vancouver to Prince Rupert on the Pacific, another from Port Arthur to the Atlantic ocean in the east, and the third from Port Churchill to Resolution island at the entrance to Hudson strait. The Great Lakes coast stations connect with those of the east coast, which, in turn, connect with the Hudson Bay Route chain. There is no direct radio connection between the Great Lakes and the Pacific Coast chain.

Of the above stations, 17 on the east coast and Great Lakes are operated by the Canadian Marconi Co. under contract with the Department, and the remaining 52 on the east coast, west coast and Hudson bay and strait are operated directly by the Department. Twice daily, at advertised hours, a number of these stations broadcast messages to shipping containing such important information as weather forecasts, storm warnings, reports in connection with floating derelicts, ice and other dangers to navigation. In the interests of navigators, to whom accurate time is essential in computing observations on celestial bodies, three Canadian coast stations—two on the west coast and one on the east coast—transmit time signals at advertised hours daily.

\* Sections 1 and 2 have been revised by Commander C. P. Edwards, O.B.E., Director, Radio Service, Department of Marine, Ottawa. A fuller treatment of the historical and descriptive background of radio communication was published at pp. 607-610 of the 1932 Year Book.



Some years ago the discrimination of underwriters in the matter of insurance rates charged on ships plying to Canadian ports led the Department to feel that any reasonable expenditure which would tend to reduce these charges would be a sound investment. To this end 13 direction-finding stations have been established at specially selected sites with respect to navigational routes—7 on the east coast, 5 on Hudson bay and strait, and 1 on the west coast. These stations are fitted with special apparatus which enables the direction of the incoming radio signal transmitted by a ship to be accurately determined.

A more recent extension of the shore direction finder is the development of the direction-finding instrument on board ship. To assist this development, the Department has established radio beacon transmitters at a number of lighthouses and lightships (see Table 76). These radio beacons transmit characteristic radio signals with an approximate range of 50 miles every hour at advertised times during clear weather and continuously when the atmosphere in the vicinity of the station is so obscure as to impede navigation.

To insure the safety of life at sea, all passenger steamers and freighters plying to and from Canadian ports must carry radio equipment manned by competent operators in possession of a certificate of proficiency in radio. The Department maintains a complete radio inspection service to enforce this regulation. Inspectors located at various ports throughout the Dominion are responsible for checking the efficiency of the radio equipment on ships of all nationalities, and seeing that only competent operators are carried. Examinations for certificates of proficiency in radio are conducted by the Radio Branch, and 4,758 certificates had been issued up to Mar. 31, 1934.

Table 76 shows the name and situation of the Government-owned radiotelegraph stations in Canada and Newfoundland.

**76.—Government-Owned Radio Stations in Canada, fiscal year ended Mar. 31, 1934.<sup>1</sup>**

| Name of Station.                       | Situation.                | Name of Station.              | Situation.                  |
|----------------------------------------|---------------------------|-------------------------------|-----------------------------|
| <b>East Coast.</b>                     |                           | <b>RADIO BEACON STATIONS.</b> |                             |
| Belle Isle, Nfld. <sup>2</sup> .....   | Belle Isle Straits.       | Cape Whittle.....             | Gulf of St. Lawrence.       |
| Cape Race, Nfld. <sup>2</sup> .....    | Newfoundland.             | West Point.....               | Anticosti.                  |
| Chebucto Head, N.S. <sup>2</sup> ..... | Entrance Halifax Harbour. | Pointe des Monts.....         | Gulf of St. Lawrence.       |
| Clarke City*.....                      | Gulf of St. Lawrence.     | Perroquet Island.....         | Gulf of St. Lawrence.       |
| Fame Point, Que.*.....                 | " "                       | Cape Bauld.....               | N.W. Newfoundland.          |
| Father Point, Que.*.....               | " "                       | Cape Ray.....                 | S.W. Newfoundland.          |
| Grindstone Island, Que.*.....          | Magdalen Islands.         | Heath Point.....              | Heath Point, Anticosti.     |
| Halifax Dockyard.....                  | Halifax, N.S.             | Lurcher Lightship.....        | Off Yarmouth, N.S.          |
| Montreal, Que.*.....                   | St. Lawrence River.       | Sambro Lightship.....         | Off Halifax, N.S.           |
| North Sydney*.....                     | Cape Breton, N.S.         | Seal Island.....              | S.E. of Nova Scotia.        |
| Point Amour, Nfld.*.....               | Gulf of St. Lawrence.     | <b>Great Lakes.</b>           |                             |
| Quebec, Que.*.....                     | St. Lawrence River.       | Kingston, Ont.*.....          | Barriefield Common.         |
| Sable Island*.....                     | North Atlantic.           | Midland, Ont.*.....           | Georgian Bay.               |
| Saint John, N.B. <sup>2</sup> .....    | Red Head, N.B.            | Point Edward, Ont.*.....      | Lake Huron.                 |
| Yarmouth, N.S. <sup>2</sup> .....      | Nova Scotia.              | Port Arthur, Ont.*.....       | Port Arthur.                |
|                                        |                           | Port Burwell, Ont.*.....      | Lake Erie.                  |
|                                        |                           | Sault Ste. Marie, Ont.*.....  | Sault Ste. Marie, Ont.      |
|                                        |                           | Tobermory, Ont.....           | Entrance Georgian Bay, Ont. |
|                                        |                           | Toronto, Ont.*.....           | Toronto Island.             |
| <b>DIRECTION-FINDING STATIONS.</b>     |                           | <b>RADIO BEACON STATIONS.</b> |                             |
| Belle Isle D/F.....                    | Belle Isle Straits.       | Southeast Shoal.....          | Lake Erie.                  |
| Canso D/F.....                         | Nova Scotia.              | Main Duck.....                | Lake Ontario.               |
| Cape Race D/F.....                     | Newfoundland.             | Long Point.....               | Lake Erie.                  |
| Chebucto Head D/F.....                 | Entrance Halifax Harbour. | Michipicoten Island....       | Lake Superior.              |
| Saint John D/F.....                    | Red Head, N.B.            | Cove Island.....              | Lake Huron.                 |
| Saint Paul D/F.....                    | Nova Scotia.              |                               |                             |
| Yarmouth D/F.....                      | Nova Scotia.              |                               |                             |

<sup>1</sup>For footnotes see end of table, p. 786.

**76.—Government-Owned Radio Stations in Canada, fiscal year ended Mar. 31, 1934**  
—concluded.

| Name of Station.                            | Situation.                                       | Name of Station.                 | Situation.                     |
|---------------------------------------------|--------------------------------------------------|----------------------------------|--------------------------------|
| <b>Hudson Bay and Hudson Strait.</b>        |                                                  | <b>West Coast—concluded</b>      |                                |
| Cape Hopes Advance, Que. <sup>2</sup> ..... | Hudson Strait.                                   | Estevan, B.C.....                | West Coast, Vancouver Is.      |
| Nottingham Island <sup>2</sup> ..           | Hudson Strait.                                   | Gonzales Hill, B.C.....          | Victoria, B.C.                 |
| Port Churchill, Man. <sup>2</sup>           | Hudson Bay.                                      | Merry Island, B.C.....           | British Columbia.              |
| Resolution Island <sup>2</sup> ....         | Hudson Strait.                                   | Pachena Point <sup>2</sup> ..... | West Coast, Vancouver Is.      |
| Chesterfield Inlet <sup>2</sup> ....        | Hudson Bay.                                      | Point Grey, B.C.....             | Entrance Vancouver Harbour.    |
| DIRECTION-FINDING STATIONS.                 |                                                  | Vancouver.....                   | Merchants Exchange, Vancouver. |
| Cape Hopes Advance.                         | Hudson Strait.                                   | DIRECTION-FINDING STATIONS.      |                                |
| Nottingham Island...                        | Hudson Strait.                                   | Pachena Point D/F..              | West Coast, Vancouver Is.      |
| Port Churchill, Man...                      | Hudson Bay.                                      | RADIO BEACON STATIONS.           |                                |
| Resolution Island.....                      | Hudson Strait.                                   | Race Rocks.....                  | Near Victoria, B.C.            |
| Chesterfield Inlet.....                     | Hudson Bay.                                      | Langara.....                     | Langara Island, Q.C.I.         |
| <b>Northwest Territories.</b>               |                                                  | Dead Tree Point.....             | South of Graham Island, Q.C.I. |
| Coppermine.....                             | Coronation Gulf.                                 | Quatsino.....                    | West Coast, V.I. (Kains Is.).  |
| <b>West Coast.</b>                          |                                                  | Triple Island.....               | Triple Islets Group, B.C.      |
| Alert Bay.....                              | Cormorant Island, B.C.                           | LIFE-SAVING STATIONS.            |                                |
| Bull Harbour.....                           | Hope Island, Vancouver Is.                       | Banfield, B.C.....               | West Coast, Vancouver Is.      |
| Cape Lazo.....                              | Strait of Georgia, near Comox, B.C.              | Carmanah, B.C.....               | " "                            |
| Dead Tree Point <sup>2</sup> .....          | South of Graham Island, Queen Charlotte Islands. | Cape Beale, B.C.....             | " "                            |
| Digby Island, B.C....                       | Entrance Prince Rupert Harbour.                  | Pachena, B.C.....                | " "                            |

<sup>1</sup> Of these Government-owned stations some only are operated by the Government. The rest are operated by the Marconi Co. and are indicated by asterisks (\*).

<sup>2</sup> This is the same station as that listed under Direction-Finding Stations, but is included under the two headings to indicate its dual function. It is counted only as a D/F station in the summary in Table 78.

<sup>3</sup> Also included under Radio Beacon Stations to show its double function.

Table 77 gives the number of messages and words handled and the cost of maintenance for the Government stations of the east coast, the west coast, the Great Lakes and Hudson bay and strait.

**77.—Business and Cost of Maintenance of Radiotelegraph Stations for the fiscal years ended Mar. 31, 1933 and 1934.**

| Station.                   | 1933.             |                  |                      | 1934.             |                  |                      |
|----------------------------|-------------------|------------------|----------------------|-------------------|------------------|----------------------|
|                            | Messages Handled. | Words Handled.   | Cost of Maintenance. | Messages Handled. | Words Handled.   | Cost of Maintenance. |
|                            | No.               | No.              | \$                   | No.               | No.              | \$                   |
| East Coast.....            | 106,976           | 2,336,185        | 194,121              | 109,007           | 2,491,809        | 195,030              |
| Great Lakes.....           | 20,099            | 337,254          | 81,906               | 19,193            | 286,233          | 81,869               |
| West Coast.....            | 142,164           | 2,925,279        | 128,708              | 152,939           | 3,024,257        | 114,700              |
| Hudson Bay and Strait..... | 30,230            | 1,094,538        | 64,623               | 25,355            | 891,421          | 45,009               |
| <b>Totals.....</b>         | <b>299,469</b>    | <b>6,693,256</b> | <b>469,358</b>       | <b>306,494</b>    | <b>6,693,720</b> | <b>436,608</b>       |

## Section 2.—Radiotelephony.

**Transatlantic Radiotelephone Service.**—A radiotelephone service between Canada and Great Britain was first made available to the Canadian public, through the medium of the Bell Telephone Co. *via* the transatlantic radio circuit operated by the American Telegraph and Telephone Co. from New York, in March, 1928. In 1932 a direct circuit with Great Britain was opened through the medium of the beam station of the Canadian Marconi Company at Drummondville, P.Q.

**Radio Broadcasting.**—Broadcasting of the human voice by radio first commenced in Canada with test programs carried out by the Canadian Marconi Company in Montreal during the winter evenings of 1919. Regular organized programs were commenced in December, 1920, by the same company, on a wavelength of 1,200 metres.

In April, 1922, the establishment of broadcasting stations on a general scale commenced, 52 private, commercial and amateur broadcasting licences being granted during the fiscal year 1922-23. During the fiscal year 1933-34, 74 broadcasting stations were in operation in the Dominion, and the number of licensed receiving sets was 707,625. The licence fee for a broadcasting station is \$25 for a period of 6 months, and for a receiving set \$2 per annum.

Approximately \$250,000 is expended annually by the Radio Branch of the Department of Marine for the suppression of inductive interference in the interests of broadcast listeners. This service is entirely free. Upwards of 100 men and 24 fully equipped cars are engaged in this work.

The extent to which private receiving sets are used for the reception of Public Broadcasting is indicated by the number of private receiving licences issued in the various provinces of the Dominion during the fiscal year 1933-34 as follows:—Alberta, 40,455; British Columbia, 55,978; Manitoba, 44,420; New Brunswick, 17,206; Nova Scotia, 25,039; Ontario, 288,357; Prince Edward Island, 1,758; Quebec, 201,154; Saskatchewan, 32,951; Yukon and Northwest Territories, 307.

### 78.—Wireless and Radio Stations in Operation in Canada, Mar. 31, 1930-34.

| Class of Station.                                 | 1930.          | 1931.          | 1932.          | 1933.          | 1934.          |
|---------------------------------------------------|----------------|----------------|----------------|----------------|----------------|
| Coast stations (Government-owned).....            | 28             | 29             | 29             | 31             | 30             |
| Direction-finding stations (Government-owned).... | 12             | 12             | 12             | 12             | 13             |
| Ship stations (Government-owned).....             | 44             | 47             | 50             | 49             | 53             |
| Radio beacon stations (Government-owned).....     | 15             | 19             | 20             | 20             | 20             |
| Radiophone stations (Government-owned).....       | 4              | 4              | 5              | 5              | 5              |
| Land stations.....                                | 1              | 1              | 1              | 1              | 1              |
| Ship stations (commercial).....                   | 275            | 272            | 241            | 224            | 215            |
| Limited coast stations.....                       | 4              | 4              | 4              | 3              | 4              |
| Public commercial stations.....                   | 47             | 50             | 32             | 30             | 22             |
| Private commercial stations.....                  | 138            | 131            | 112            | 122            | 162            |
| Private commercial broadcasting stations.....     | 81             | 80             | 77             | 70             | 68             |
| Experimental stations.....                        | 71             | 91             | 107            | 110            | 92             |
| Amateur experimental stations.....                | 610            | 728            | 898            | 1,229          | 1,606          |
| Amateur broadcasting stations.....                | 10             | 8              | 7              | 7              | 6              |
| Private receiving stations <sup>1</sup> .....     | 424,146        | 523,100        | 598,358        | 761,288        | 707,625        |
| Radio training schools.....                       | 6              | 6              | 5              | 4              | 4              |
| Licensed aircraft.....                            | 3              | —              | 1              | 2              | 2              |
| <b>Totals.....</b>                                | <b>425,495</b> | <b>524,582</b> | <b>599,959</b> | <b>763,207</b> | <b>709,928</b> |

<sup>1</sup> Includes licences issued free to the blind, numbering 1,517 in 1934.

### Section 3.—The Canadian Radio Broadcasting Commission.\*

From the time its original networks were established, about the middle of 1933 until the present, the Canadian Radio Broadcasting Commission has maintained a daily broadcasting service on regular schedule to all the populated areas of Canada. Its time on the air in regular schedule broadcasting has amounted to approximately 40 hours a week, being 4½ hours on week days and about 9 hours on Sundays, with additional hours on Saturdays during certain periods. On week days the broadcasting has been in the evening hours when the maximum number of listeners can be served. The Sunday schedule includes also several hours in the afternoon. The service is provided on a system of broadcast networks organized as follows:—

Maritime network serving Nova Scotia, Prince Edward Island and New Brunswick;

Mideast network serving Ontario and Quebec;

Central network serving Manitoba and Saskatchewan;

Pacific network serving Alberta and British Columbia;

Midwest network serving Manitoba, Saskatchewan and Alberta;

Eastern network which includes the Maritimes and Mideast networks;

Western network which includes the Central, Midwest and Pacific networks;

National network which includes all the above and thus serves all points in Canada.

By the end of 1934 commission networks included upwards of 50 broadcasting stations covering the country from Sydney, N.S., to Vancouver, B.C. Of these stations 23 were 'basic' stations which, either through being operated by the commission itself or through contract arrangement with it, reserved specified time each day for commission broadcasting. The others were stations to which the commission service was made available but their use of it was entirely optional. The network stations are connected by approximately 12,000 miles of communication wires or about 5,900 miles of broadcast wire pairs. For the operation of this wire communication system, a telegraphic monitor circuit involving an additional 5,900 miles of wire and 64 repeater and control stations is used. The wire network was supplied jointly by the Canadian Pacific Telegraphs and Canadian National Telegraphs under contract arrangement with the commission. Of the network stations six are operated by the commission itself.

The national broadcasting service follows usual broadcasting practices with respect to the types and variety of entertainment provided. The daily broadcasting, however, contains no advertising, direct or indirect, and all Canadian cities are represented in the broadcasting. The regular service consists, broadly speaking, of: entertainment, mainly musical; informative and educational broadcasts; news bulletins and weather forecasts; and special features. Such a classification, however, is very general. An accurate classification would be difficult as a number of the regular features of the service fall under two or more headings. Many of the musical programs, for example, are directly educational and informative in that they include biographical sketches of the lives and works of the great composers. Musical programs include opera, chamber music, choral concerts, instrumental recitals, bands and orchestras of all kinds. In its musical programs particularly the commission seeks to serve all tastes. During the winter season of 1933-34 a series of weekly broadcasts by the Metropolitan Opera Co. of New York was carried

\*Supplied by Hector Charlesworth, Chairman, Radio Broadcasting Commission.



on the commission networks. In the commission's own studios light operas were produced by its own groups of artists. The commission also secured, and broadcasted from coast to coast, the Sunday afternoon series of concerts by the New York Philharmonic Society as well as other symphony concerts by well known organizations in Canada and the United States. Leading Canadian concert orchestras, dance orchestras, bands and choral groups have been heard frequently in the national service. Other entertainment programs include what might be called variety revues, humour, programs for children. There is a fifteen-minute news bulletin period every evening followed by weather bulletins and the broadcasting of "A Fact A Day About Canada" supplied by the Dominion Bureau of Statistics. During the fall and winter season the commission maintains a weekly service by short wave to the outposts in the Far North. This service includes a weekly summary of the news, a special entertainment program, and personal messages. In response to public request this northern messenger service is also carried on the national network.

The part of the service which falls under the head of informative and educational broadcasts includes addresses by outstanding Canadians and visitors from other lands, short talks by officials of the Government services, university lectures and debates, commentaries on world events and book reviews. As in other countries drama is finding a steadily increasing place on the air in this country and the commission broadcasts a number of plays written especially for the microphone by Canadians.

In addition to the regular schedule broadcasting, the commission broadcasts events of special interest taking place in Canada and other countries. During the past year for example it broadcasted the launching of the new ocean liner, the *Queen Mary*, the Jacques Cartier quarter-centennial celebrations at Gaspé and elsewhere, the wedding of the Duke of Kent and Princess Marina of Greece, and other events in which there was general interest. The commission participated in the Empire Christmas broadcasts of 1933 and 1934. Broadcasts in behalf of international peace, community relief and child welfare and other causes were carried on the commission networks.

During 1934 a new broadcasting station at Quebec was added to the chain of stations operated by the commission and another station for this chain was nearing completion at Windsor, Ontario. A receiving station was constructed at Ottawa with special equipment for the reception of short wave programs from the United Kingdom. This station was ready for operation in the summer of 1935 and the commission proposes to pick up selected programs from the United Kingdom and re-broadcast them over its networks by means of its blattnerphone recording equipment. Programs are regularly exchanged between the commission and the large broadcasting companies of the United States.

As required by the Canadian Radio Broadcasting Act the commission continued to control and regulate all broadcasting in Canada.

### PART XIII.—THE POST OFFICE.

**Historical.**—A postal service was established between Montreal and Quebec as early as 1721, official messengers and other travellers making a practice of carrying letters for private persons. When Canada came under British rule, the Post Office was placed on a solid footing by Benjamin Franklin, then Deputy Postmaster General for the American colonies, who visited Canada in 1763, opened post offices at Quebec, Montreal and Three Rivers, and also established courier

communication between Montreal and New York. Since 1755 Halifax had had a post office and direct postal communication with Great Britain.

As a consequence of the American Revolution and the resulting isolation of Canada from Nova Scotia, the first exclusively Canadian postal service, a monthly courier route from Halifax to Quebec, was established in 1788, involving a seven weeks trip and expenses of about £200 of which only one-third was met by postal charges. Up to 1804 the postal facilities of Upper Canada consisted of one regular trip by courier each winter with whatever mail might reach Montreal during the season of navigation. Charges were necessarily high, \$1.12 being paid on ordinary letters from London to York (now Toronto) *via* Halifax.

The first post office in York (now Toronto) was opened about 1800. By 1816 there were 19 offices in the two Canadas and by 1827 this number had increased to 114. At this time the system consisted primarily of a trunk line of communication between Halifax, Quebec, Montreal, York and Amherstburg, over which couriers travelled at varying intervals. Branching off this line were routes to Sorel, Sherbrooke, St. Johns, Hull, Hawkesbury, Perth and Richmond, with most deliveries made once or twice a week.

Hitherto the Post Office had been under the control of the Imperial Department, but considerable agitation resulted in the service being transferred on April 6, 1851, to the several provinces. Only enough mutual control was maintained to insure the continuance of Imperial and intercolonial services. The provinces had complete jurisdiction over the establishment and maintenance of systems and rates.

At Confederation the provincial systems were transferred to the Dominion. The Post Office Act of 1867 established a service throughout Canada. The domestic rate on letters was reduced from 5 to 3 cents per half-ounce, and in 1870 the rates to the United States and the United Kingdom were reduced from 10 to 6 cents and from  $12\frac{1}{2}$  to 6 cents, respectively, per half-ounce. In 1875 a convention between Canada and the United States reduced postal rates between the countries to the domestic level. In 1878, on the admission of Canada to the Postal Union, letter postage to the countries of the Postal Union was reduced to 5 cents per half-ounce. After a conference in 1897 Imperial penny postage (2 cents per half-ounce) was established on Dec. 25, 1898, while the domestic rate was reduced from 3 to 2 cents per ounce. These rates were maintained until 1915, when a 1-cent war tax was imposed on all pay letters and post cards (except where this would be in violation of international agreements), and also on postal notes. Later the rate to the United Kingdom was increased to 4 cents on the first and 3 cents on succeeding ounces, while that to Postal Union countries was raised to 10 cents on the first and 5 cents on succeeding ounces. The Postal Union rate was reduced in October, 1925, to 8 cents for the first ounce and 4 cents for subsequent ounces. Penny postage again became effective for Canada, to the United States, Newfoundland and other countries of North America on July 1, 1926, and to the United Kingdom and all other places within the British Empire on Dec. 25, 1928. On May 24, 1929, penny postage became effective to France and, on Dec. 25, 1929, was extended to all places in South America. On July 1, 1930, the rate to other Postal Union countries was made 5 cents for the first ounce and 3 cents for each succeeding ounce. On July 1, 1931, a special revenue tax, imposed by the Government for the purpose of obtaining additional revenue, came into effect on letters addressed to places in Canada, throughout the Empire, to France and to North and South America

generally, making the rate in these cases 3 cents for the first ounce and 2 cents for each succeeding ounce.

The Post Office Department is administered by the Postmaster General. Besides the several administrative branches at Ottawa, the Dominion is divided into 15 districts, each in charge of a Superintendent of Postal Service. The Canadian system embraces a territory more extensive than that served by any other system, excepting those of United States and Russia, and the sparsity of population and the comparative lack of development make inevitable a peculiarly difficult and expensive service.

**Rural Mail Delivery.**—A system of rural mail delivery was inaugurated in Canada on Oct. 10, 1908, limited at that time to existing stage routes, persons residing on such routes being entitled to have mail boxes put up in which the mail carrier was to deposit mail matter and from which he was to collect mail matter and carry it to the post office. As a consequence of the public approval of this scheme, new regulations, taking effect on April 1, 1912, made all persons residing in rural districts along and contiguous to well-defined main thoroughfares of one mile and upwards eligible to receive their mail in this manner, while couriers on rural mail routes were also required to sell postage stamps and take applications, and accept money, for money orders and postal notes. The result has been an increase in the number of rural routes from approximately 900 in 1912 to 4,329 in 1933, having 236,380 mail boxes as against approximately 25,000 in 1912. The establishment of these routes has been an important factor in the amelioration of the conditions of Canadian rural life.

**Statistics.\***—Tables 79 to 81 show the numbers of post offices in operation in Canada in the latest six years, the gross revenue in each office collecting \$10,000 and upwards in 1933 and 1934, and the net revenues and expenditures of the Department in various years since 1890.

\*Revised as to financial transactions by H. E. Atwater, Financial Superintendent, Post Office Department.

**79.—Numbers of Post Offices in Operation, by Provinces, Mar. 31, 1929-34.**

| Province.                  | 1929.         | 1930.         | 1931.         | 1932.         | 1933.         | 1934.         |
|----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Prince Edward Island.....  | 127           | 126           | 125           | 116           | 114           | 115           |
| Nova Scotia.....           | 1,770         | 1,762         | 1,751         | 1,673         | 1,629         | 1,600         |
| New Brunswick.....         | 1,079         | 1,062         | 1,041         | 1,025         | 1,016         | 1,004         |
| Quebec.....                | 2,528         | 2,519         | 2,516         | 2,451         | 2,446         | 2,450         |
| Ontario.....               | 2,586         | 2,575         | 2,576         | 2,522         | 2,524         | 2,523         |
| Manitoba.....              | 816           | 815           | 818           | 781           | 778           | 778           |
| Saskatchewan.....          | 1,423         | 1,430         | 1,448         | 1,423         | 1,423         | 1,426         |
| Alberta.....               | 1,189         | 1,191         | 1,224         | 1,200         | 1,215         | 1,213         |
| British Columbia.....      | 876           | 892           | 890           | 905           | 892           | 889           |
| Yukon.....                 | 20            | 20            | 21            | 19            | 19            | 18            |
| Northwest Territories..... | 16            | 17            | 17            | 17            | 18            | 19            |
| <b>Totals.....</b>         | <b>12,430</b> | <b>12,409</b> | <b>12,427</b> | <b>12,133</b> | <b>12,074</b> | <b>12,035</b> |

80.—Statistics of Gross Postal Revenues of Offices Collecting \$10,000 and upwards, fiscal years ended Mar. 31, 1933-34.

| Name of Post Office.          | 1933.            | 1934.            | Name of Post Office.          | 1933.            | 1934.            |
|-------------------------------|------------------|------------------|-------------------------------|------------------|------------------|
| P.E. Island.                  | \$               | \$               | Quebec—concluded.             | \$               | \$               |
| Charlottetown.....            | 75,284           | 74,529           | Sherbrooke.....               | 117,031          | 113,134          |
| Summerside.....               | 23,343           | 22,120           | Sorel.....                    | 15,454           | 14,363           |
| <b>Totals for Province...</b> | <b>171,267</b>   | <b>169,454</b>   | Thetford Mines.....           | 18,338           | 18,674           |
| <b>Nova Scotia.</b>           |                  |                  | Three Rivers.....             | 76,587           | 74,393           |
| Amherst.....                  | 34,187           | 33,121           | Valleyfield.....              | 16,675           | 15,477           |
| Antigonish.....               | 15,732           | 15,416           | Victoriaville.....            | 21,969           | 20,773           |
| Bridgewater.....              | 18,885           | 18,597           | <b>Totals for Province...</b> | <b>7,114,263</b> | <b>7,024,599</b> |
| Digby.....                    | 10,852           | 10,286           |                               |                  |                  |
| Glace Bay.....                | 17,523           | 18,360           | <b>Ontario.</b>               |                  |                  |
| Halifax.....                  | 491,445          | 487,170          | Amherstburg.....              | 11,784           | 10,886           |
| Kentville.....                | 21,621           | 22,049           | Arnprior.....                 | 15,328           | 14,063           |
| Liverpool.....                | 14,283           | 14,579           | Aurora.....                   | 17,949           | 14,694           |
| Lunenburg.....                | 14,768           | 14,462           | Aylmer West.....              | 12,170           | 12,610           |
| New Glasgow.....              | 37,788           | 35,608           | Barrie.....                   | 32,215           | 30,061           |
| North Sydney.....             | 16,316           | 15,580           | Belleville.....               | 67,268           | 63,258           |
| Pictou.....                   | 13,717           | 13,447           | Bowmanville.....              | 17,243           | 15,537           |
| Springhill.....               | 12,024           | 11,530           | Bracebridge.....              | 14,994           | 14,570           |
| Stellarton.....               | 10,767           | 9,922            | Brantford.....                | 29,611           | 28,633           |
| Sydney.....                   | 62,587           | 63,014           | Brockville.....               | 145,962          | 136,348          |
| Truro.....                    | 58,218           | 55,650           | Burlington.....               | 53,596           | 53,246           |
| Windsor.....                  | 20,394           | 19,733           | Campbellford.....             | 10,369           | 10,183           |
| Wolfville.....                | 15,626           | 15,333           | Carleton Place.....           | 11,105           | 10,963           |
| Yarmouth.....                 | 31,975           | 29,768           | Chatham.....                  | 16,702           | 16,414           |
| <b>Totals for Province...</b> | <b>1,388,117</b> | <b>1,377,251</b> | Chesley.....                  | 73,532           | 70,569           |
| <b>New Brunswick.</b>         |                  |                  | Clinton.....                  | 9,693            | 10,906           |
| Bathurst.....                 | 12,945           | 12,210           | Cobalt.....                   | 10,794           | 10,313           |
| Campbellton.....              | 22,827           | 22,956           | Cobourg.....                  | 16,338           | 14,624           |
| Chatham.....                  | 12,313           | 11,465           | Cochrane.....                 | 29,062           | 29,648           |
| Edmundston.....               | 15,432           | 16,975           | Collingwood.....              | 19,698           | 17,549           |
| Fredericton.....              | 70,643           | 67,294           | Copper Cliff.....             | 19,165           | 17,639           |
| Moncton.....                  | 397,900          | 418,930          | Cornwall.....                 | 8,990            | 10,371           |
| Newcastle.....                | 12,285           | 12,252           | Dundas.....                   | 44,947           | 45,320           |
| Saint John.....               | 281,602          | 265,553          | Dunnville.....                | 15,974           | 15,116           |
| St. Stephen.....              | 19,090           | 18,324           | Fergus.....                   | 24,093           | 22,800           |
| Sackville.....                | 19,086           | 19,050           | Fort Erie North.....          | 17,356           | 18,514           |
| Sussex.....                   | 16,016           | 14,772           | Fort Frances.....             | 24,587           | 20,796           |
| Woodstock.....                | 19,372           | 18,808           | Fort William.....             | 18,843           | 16,659           |
| <b>Totals for Province...</b> | <b>1,203,180</b> | <b>1,210,632</b> | Galt.....                     | 78,346           | 77,012           |
| <b>Quebec.</b>                |                  |                  | Gananoquo.....                | 63,180           | 60,225           |
| Amos.....                     | 12,758           | 13,869           | Georgetown.....               | 18,597           | 17,380           |
| Buckingham.....               | 10,727           | 10,039           | Goderich.....                 | 16,148           | 17,437           |
| Chicoutimi.....               | 29,092           | 27,211           | Gravenhurst.....              | 18,304           | 18,166           |
| Coaticook.....                | 12,502           | 11,667           | Grimsby.....                  | 11,381           | 10,980           |
| Cowansville.....              | 10,595           | 10,634           | Guelpi.....                   | 13,123           | 12,191           |
| Drummondville East.....       | 28,031           | 29,796           | Haileybury.....               | 104,153          | 98,115           |
| Farnham.....                  | 13,899           | 14,057           | Hamilton.....                 | 12,783           | 12,913           |
| Gardenvale.....               | 22,342           | 35,450           | Hanover.....                  | 606,184          | 591,982          |
| Granby.....                   | 29,887           | 29,253           | Harriston.....                | 15,039           | 15,394           |
| Grand Mère.....               | 10,922           | 11,482           | Harrison.....                 | 10,254           | 9,713            |
| Hull.....                     | 34,047           | 35,509           | Hawkesbury.....               | 10,047           | 10,299           |
| Joliette.....                 | 25,188           | 23,657           | Hespeler.....                 | 10,762           | 10,775           |
| La Chute.....                 | 10,305           | 10,181           | Huntsville.....               | 15,647           | 15,655           |
| La Tuque.....                 | 11,571           | 12,153           | Ingersoll.....                | 24,186           | 23,296           |
| Lennoxville.....              | 10,109           | 9,892            | Kapuskasing.....              | 11,006           | 11,680           |
| Lévis.....                    | 24,123           | 23,488           | Kenora.....                   | 25,407           | 26,448           |
| Magog.....                    | 13,030           | 12,790           | Kimcardine.....               | 17,842           | 16,121           |
| Montmagny.....                | 10,917           | 11,031           | Kingston.....                 | 121,139          | 118,684          |
| Montreal.....                 | 4,303,571        | 4,252,942        | Kingsville.....               | 10,278           | 9,913            |
| Noranda.....                  | 12,704           | 14,760           | Kirkland Lake.....            | 41,658           | 44,658           |
| Quebec.....                   | 622,696          | 586,047          | Kitchener.....                | 134,667          | 131,045          |
| Rimouski.....                 | 16,936           | 17,568           | Leamington.....               | 22,502           | 23,825           |
| Rock Island.....              | 11,174           | 11,929           | Lindsay.....                  | 37,466           | 33,965           |
| Rouyn.....                    | 14,747           | 17,385           | Listowel.....                 | 14,461           | 13,377           |
| Ste. Agathe des Monts.....    | 12,602           | 12,068           | London.....                   | 522,030          | 498,740          |
| St. Hyacinthe.....            | 43,737           | 40,913           | Meaford.....                  | 10,329           | 10,227           |
| St. Johns.....                | 27,958           | 27,346           | Midland.....                  | 22,327           | 21,125           |
| St. Jérôme.....               | 18,910           | 17,158           | Napanee.....                  | 22,755           | 21,691           |
| Shawinigan Falls.....         | 24,447           | 24,878           | New Liskard.....              | 22,714           | 21,553           |
|                               |                  |                  | Newmarket.....                | 18,734           | 18,619           |
|                               |                  |                  | Niagara Falls.....            | 114,813          | 102,824          |
|                               |                  |                  | North Bay.....                | 68,131           | 63,763           |



80.—Statistics of Gross Postal Revenues of Offices Collecting \$10,000 and upwards, fiscal years ended Mar. 31, 1933-34—concluded.

| Name of Post Office.          | 1933.             | 1934.             | Name of Post Office.          | 1933.             | 1934.             |
|-------------------------------|-------------------|-------------------|-------------------------------|-------------------|-------------------|
|                               | \$                | ¢                 |                               | \$                | \$                |
| <b>Ontario—concluded.</b>     |                   |                   | <b>Saskatchewan—concl.</b>    |                   |                   |
| Oakville.....                 | 19,012            | 19,362            | Regina.....                   | 883,409           | 818,674           |
| Orangeville.....              | 13,143            | 12,673            | Rosetown.....                 | 10,806            | 9,330             |
| Orillia.....                  | 41,987            | 40,926            | Saskatoon.....                | 335,834           | 298,680           |
| Oshawa.....                   | 94,541            | 86,019            | Shaunavon.....                | 10,934            | 10,356            |
| Ottawa.....                   | 774,289           | 728,839           | Swift Current.....            | 31,654            | 29,450            |
| Owen Sound.....               | 50,726            | 48,396            | Weyburn.....                  | 25,039            | 24,157            |
| Paris.....                    | 23,675            | 22,052            | Yorkton.....                  | 32,288            | 35,047            |
| Parry Sound.....              | 16,809            | 16,066            |                               |                   |                   |
| Pembroke.....                 | 31,366            | 29,683            | <b>Totals for Province...</b> | <b>2,777,680</b>  | <b>2,658,818</b>  |
| Perth.....                    | 30,482            | 30,763            |                               |                   |                   |
| Peterborough.....             | 120,467           | 118,074           | <b>Alberta.</b>               |                   |                   |
| Petrolia.....                 | 11,286            | 10,903            | Banff.....                    | 15,215            | 14,828            |
| Pictou.....                   | 18,470            | 19,214            | Calgary.....                  | 594,547           | 562,960           |
| Port Arthur.....              | 58,857            | 59,959            | Camrose.....                  | 15,828            | 15,622            |
| Port Colborne.....            | 18,837            | 18,927            | Drumheller.....               | 21,497            | 20,741            |
| Port Hope.....                | 22,013            | 22,489            | Edmonton.....                 | 550,836           | 538,672           |
| Prescott.....                 | 13,639            | 13,546            | Grande Prairie.....           | 11,045            | 10,804            |
| Preston.....                  | 24,426            | 24,944            | Lacombe.....                  | 11,220            | 11,330            |
| Renfrew.....                  | 30,346            | 26,904            | Lethbridge.....               | 72,853            | 73,207            |
| St. Catharines.....           | 111,337           | 108,459           | Medicine Hat.....             | 39,203            | 39,472            |
| St. Marys.....                | 17,845            | 17,169            | Red Deer.....                 | 20,660            | 20,619            |
| St. Thomas.....               | 60,983            | 56,786            | Vegreville.....               | 11,553            | 11,225            |
| Sarnia.....                   | 66,135            | 63,987            | Vermilion.....                | 10,617            | 9,689             |
| Sault Ste. Marie.....         | 63,184            | 58,730            | Wetaskiwin.....               | 14,594            | 15,613            |
| Seaford.....                  | 10,738            | 10,288            |                               |                   |                   |
| Simcoe.....                   | 40,273            | 39,208            | <b>Totals for Province...</b> | <b>2,270,394</b>  | <b>2,220,686</b>  |
| Smiths Falls.....             | 26,255            | 24,709            |                               |                   |                   |
| Stratford.....                | 70,109            | 66,403            | <b>British Columbia.</b>      |                   |                   |
| Strathroy.....                | 13,015            | 12,979            | Chilliwack.....               | 20,247            | 20,041            |
| Sudbury.....                  | 63,863            | 68,262            | Courtney.....                 | 9,883             | 10,331            |
| Thorold.....                  | 11,033            | 10,831            | Cranbrook.....                | 20,468            | 17,896            |
| Tilsonburg.....               | 17,250            | 16,994            | Duncan.....                   | 19,858            | 21,296            |
| Timmins.....                  | 48,018            | 52,093            | Fernie.....                   | 13,477            | 12,469            |
| Toronto.....                  | 6,691,782         | 6,504,063         | Kamloops.....                 | 38,345            | 36,719            |
| Trenton.....                  | 21,066            | 21,841            | Kelowna.....                  | 28,443            | 28,982            |
| Walkerton.....                | 12,688            | 12,210            | Nanaimo.....                  | 28,608            | 27,735            |
| Wallaceburg.....              | 13,313            | 13,340            | Nelson.....                   | 44,050            | 44,276            |
| Waterloo.....                 | 46,813            | 47,738            | New Westminster.....          | 93,244            | 92,829            |
| Welland.....                  | 39,282            | 38,044            | Penticton.....                | 24,991            | 25,509            |
| Weston.....                   | 24,118            | 24,049            | Port Alberni.....             | 9,399             | 10,713            |
| Whitby.....                   | 14,295            | 13,843            | Powell River.....             | 13,541            | 13,224            |
| Windsor.....                  | 386,849           | 350,465           | Prince George.....            | 12,024            | 11,197            |
| Wingham.....                  | 11,034            | 10,844            | Prince Rupert.....            | 30,928            | 29,652            |
| Woodstock.....                | 56,110            | 56,457            | Revelstoke.....               | 15,623            | 15,229            |
|                               |                   |                   | Salmon Arm.....               | 10,233            | 10,065            |
| <b>Totals for Province...</b> | <b>14,282,397</b> | <b>13,926,214</b> | Trail.....                    | 32,314            | 33,973            |
|                               |                   |                   | Vancouver.....                | 1,319,162         | 1,338,645         |
| <b>Manitoba.</b>              |                   |                   | Vernon.....                   | 33,606            | 32,756            |
| Brandon.....                  | 92,290            | 86,020            | Victoria.....                 | 298,645           | 299,154           |
| Dauphin.....                  | 23,182            | 22,010            |                               |                   |                   |
| Flin Flon.....                | 12,475            | 13,599            | <b>Totals for Province...</b> | <b>2,667,593</b>  | <b>2,724,046</b>  |
| Neepawa.....                  | 11,825            | 12,492            |                               |                   |                   |
| Portage la Prairie.....       | 28,860            | 28,368            | <b>Yukon.</b>                 |                   |                   |
| St. Boniface.....             | 19,230            | 22,423            |                               |                   |                   |
| The Pas.....                  | 17,973            | 16,204            | <b>Totals for Yukon...</b>    | <b>12,473</b>     | <b>13,902</b>     |
| Wawanesa.....                 | 14,135            | 12,036            |                               |                   |                   |
| Winnipeg.....                 | 2,889,875         | 2,826,815         | <b>Summary.</b>               |                   |                   |
| <b>Totals for Province...</b> | <b>3,640,371</b>  | <b>3,572,802</b>  | Prince Edward Island.....     | 171,267           | 169,454           |
|                               |                   |                   | Nova Scotia.....              | 1,388,117         | 1,377,251         |
| <b>Saskatchewan.</b>          |                   |                   | New Brunswick.....            | 1,203,180         | 1,210,632         |
| Biggar.....                   | 10,143            | 9,358             | Quebec.....                   | 7,114,263         | 7,024,599         |
| Estevan.....                  | 17,815            | 16,867            | Ontario.....                  | 14,282,397        | 13,926,214        |
| Humboldt.....                 | 12,292            | 13,270            | Manitoba.....                 | 3,640,371         | 3,572,802         |
| Kindersley.....               | 10,005            | 8,823             | Saskatchewan.....             | 2,777,680         | 2,658,818         |
| Lloydminster.....             | 13,552            | 13,648            | Alberta.....                  | 2,270,394         | 2,220,686         |
| Melfort.....                  | 14,550            | 14,762            | British Columbia.....         | 2,667,508         | 2,724,046         |
| Melville.....                 | 14,806            | 15,365            | Yukon.....                    | 12,473            | 13,902            |
| Moose Jaw.....                | 101,650           | 96,615            |                               |                   |                   |
| North Battleford.....         | 33,968            | 32,086            | <b>Totals for Canada...</b>   | <b>35,527,648</b> | <b>34,893,406</b> |
| Prince Albert.....            | 50,347            | 49,319            |                               |                   |                   |

# 81.—Revenues and Expenditures of the Post Office Department for the quinquennial fiscal years ended 1890-1910, and fiscal years ended Mar. 31, 1911-34.

NOTE.—For all other years since Confederation, see 1911 Year Book, p. 288.

| Fiscal Year. | Net Revenue. <sup>1</sup> | Expenditure. | Deficit.  | Surplus.  |
|--------------|---------------------------|--------------|-----------|-----------|
|              | \$                        | \$           | \$        | \$        |
| 1890.....    | 2,357,389                 | 3,074,470    | 717,081   | —         |
| 1895.....    | 2,792,790                 | 3,593,647    | 800,857   | —         |
| 1900.....    | 3,183,984                 | 3,645,646    | 461,662   | —         |
| 1905.....    | 5,125,373                 | 4,634,528    | —         | 490,845   |
| 1910.....    | 7,958,547                 | 7,215,337    | —         | 743,210   |
| 1911.....    | 9,146,952                 | 7,954,223    | —         | 1,192,729 |
| 1912.....    | 10,482,255                | 9,172,035    | —         | 1,310,220 |
| 1913.....    | 12,060,476                | 10,882,805   | —         | 1,177,671 |
| 1914.....    | 12,956,216                | 12,822,058   | —         | 134,158   |
| 1915.....    | 13,046,650                | 15,961,191   | 2,914,541 | —         |
| 1916.....    | 18,858,410                | 16,009,139   | —         | 2,849,271 |
| 1917.....    | 20,902,384                | 16,300,579   | —         | 4,601,805 |
| 1918.....    | 21,345,394                | 18,046,558   | —         | 3,298,836 |
| 1919.....    | 21,602,713                | 19,273,584   | —         | 2,329,129 |
| 1920.....    | 24,449,917                | 20,774,385   | —         | 3,675,532 |
| 1921.....    | 26,331,119                | 24,661,262   | —         | 1,669,857 |
| 1922.....    | 26,554,538                | 28,121,425   | 1,566,887 | —         |
| 1923.....    | 29,262,233                | 27,794,502   | —         | 1,467,731 |
| 1924.....    | 29,100,492                | 28,305,937   | —         | 794,555   |
| 1925.....    | 28,581,993                | 29,873,802   | 1,291,809 | —         |
| 1926.....    | 31,024,464                | 30,499,686   | —         | 524,778   |
| 1927.....    | 29,378,697                | 31,007,698   | 1,629,001 | —         |
| 1928.....    | 30,529,155                | 32,379,196   | 1,850,041 | —         |
| 1929.....    | 31,170,904                | 33,483,058   | 2,312,154 | —         |
| 1930.....    | 32,969,293                | 35,036,629   | 2,067,336 | —         |
| 1931.....    | 30,416,106                | 36,292,603   | 5,876,496 | —         |
| 1932.....    | 32,476,604                | 34,448,986   | 1,972,382 | —         |
| 1933.....    | 30,825,155                | 30,167,827   | —         | 657,328   |
| 1934.....    | 30,367,465                | 29,202,730   | —         | 1,164,735 |

<sup>1</sup> "Net Revenue" is exclusive of salaries and allowances to postmasters and some other smaller items. The gross revenue in the fiscal year 1933 was \$36,891,968 and in 1934, \$36,352,253.

**Auxiliary Services.**—The auxiliary postal services—the issuing of money orders (including postal notes) and the facilities offered by the Post Office savings banks—have expanded enormously since Confederation. In 1868, there were 515 money order offices in operation, issuing orders to an amount of \$3,342,574. In 1934 the number of offices had increased to 6,464. In the following tables, illustrating the use of money orders and postal notes, it will also be noticed that the large number of 12,633,710 money orders, representing a value of \$107,471,321, was issued during 1934. The number of postal notes received and paid was 5,115,761, with a value of \$9,247,459. Statistical tables showing deposits with the Government savings banks since Confederation and the business of the Post Office savings banks, 1929-34, are included in the chapter on Currency and Banking, (Chapter XXII).

**82.—Operations of the Money Order System in Canada, fiscal years ended Mar. 31, 1911-34.**

NOTE.—For 1868 to 1910, see Canada Year Book, 1911, p. 289. For 1901-10, see 1932 Year Book, p. 622.

| Fiscal Year. | Money Order Offices in Canada. | Orders Issued in Canada. | Value of Orders Issued in Canada. | Payable in— |                  | Value of Orders Issued in other Countries, Payable in Canada. |
|--------------|--------------------------------|--------------------------|-----------------------------------|-------------|------------------|---------------------------------------------------------------|
|              |                                |                          |                                   | Canada.     | Other Countries. |                                                               |
|              | No.                            | No.                      | \$                                | \$          | \$               | \$                                                            |
| 1911.....    | 3,501                          | 4,840,896                | 70,614,862                        | 45,451,425  | 25,163,437       | 8,664,557                                                     |
| 1912.....    | 3,673                          | 5,777,757                | 84,065,891                        | 52,568,433  | 31,497,458       | 8,712,667                                                     |
| 1913.....    | 3,923                          | 8,688,563                | 101,153,272                       | 61,324,030  | 39,829,242       | 9,081,627                                                     |
| 1914.....    | 4,274                          | 7,227,964                | 109,500,670                       | 66,113,221  | 43,387,449       | 9,807,313                                                     |
| 1915.....    | 4,499                          | 6,990,813                | 89,957,906                        | 64,723,941  | 25,233,965       | 9,707,383                                                     |
| 1916.....    | 4,690                          | 7,171,375                | 94,469,871                        | 75,781,582  | 18,688,289       | 9,868,137                                                     |
| 1917.....    | 4,810                          | 8,698,502                | 119,695,535                       | 97,263,961  | 22,431,574       | 9,704,610                                                     |
| 1918.....    | 4,930                          | 9,919,665                | 142,959,167                       | 116,764,491 | 26,194,676       | 9,385,627                                                     |
| 1919.....    | 4,953                          | 9,100,707                | 142,375,809                       | 116,646,096 | 25,729,713       | 10,351,021                                                    |
| 1920.....    | 5,106                          | 9,447,018                | 159,224,937                       | 135,201,816 | 24,023,121       | 10,050,361                                                    |
| 1921.....    | 5,197                          | 11,013,167               | 173,523,322                       | 155,916,232 | 17,607,090       | 6,680,971                                                     |
| 1922.....    | 5,266                          | 10,031,198               | 139,914,186                       | 124,316,726 | 15,597,460       | 5,515,069                                                     |
| 1923.....    | 5,337                          | 11,098,222               | 143,055,120                       | 126,617,350 | 16,437,770       | 8,986,041                                                     |
| 1924.....    | 5,472                          | 12,561,490               | 159,855,115                       | 141,620,372 | 18,234,743       | 13,508,396                                                    |
| 1925.....    | 5,578                          | 13,435,448               | 163,519,320                       | 145,769,761 | 17,749,569       | 13,957,613                                                    |
| 1926.....    | 5,706                          | 14,784,230               | 177,840,231                       | 158,844,831 | 18,995,400       | 15,600,917                                                    |
| 1927.....    | 5,797                          | 15,760,994               | 188,219,777                       | 167,206,859 | 21,012,918       | 15,532,673                                                    |
| 1928.....    | 5,923                          | 17,505,563               | 200,773,403                       | 177,880,036 | 22,893,367       | 15,398,181                                                    |
| 1929.....    | 6,066                          | 17,210,316               | 203,129,237                       | 179,833,100 | 23,296,138       | 14,096,027                                                    |
| 1930.....    | 6,209                          | 17,525,979               | 197,699,353                       | 174,285,024 | 23,414,329       | 14,016,240                                                    |
| 1931.....    | 6,401                          | 16,313,134               | 167,749,651                       | 149,012,359 | 18,737,292       | 12,906,487                                                    |
| 1932.....    | 6,414                          | 14,324,715               | 132,625,260                       | 121,391,212 | 11,234,048       | 9,097,086                                                     |
| 1933.....    | 6,467                          | 12,659,379               | 107,767,394                       | 102,009,862 | 5,757,532        | 5,079,234                                                     |
| 1934.....    | 6,464                          | 12,633,710               | 107,471,321                       | 101,926,369 | 5,544,952        | 5,401,118                                                     |

**83.—Money Order Statistics, by Provinces, and Total Postal Notes, fiscal years ended Mar. 31, 1930-34.**

| Province.                 | 1930. | 1931. | 1932. | 1933. | 1934. |
|---------------------------|-------|-------|-------|-------|-------|
|                           | No.   | No.   | No.   | No.   | No.   |
| Money Order Offices in—   |       |       |       |       |       |
| Canada.....               | 6,209 | 6,401 | 6,414 | 6,467 | 6,464 |
| Prince Edward Island..... | 70    | 72    | 72    | 73    | 73    |
| Nova Scotia.....          | 400   | 421   | 427   | 427   | 425   |
| New Brunswick.....        | 285   | 306   | 307   | 309   | 305   |
| Quebec.....               | 1,330 | 1,370 | 1,371 | 1,371 | 1,373 |
| Ontario.....              | 1,681 | 1,696 | 1,687 | 1,700 | 1,678 |
| Manitoba.....             | 435   | 450   | 452   | 458   | 460   |
| Saskatchewan.....         | 853   | 891   | 897   | 919   | 935   |
| Alberta.....              | 643   | 673   | 674   | 680   | 684   |
| British Columbia.....     | 505   | 515   | 520   | 524   | 525   |
| Yukon.....                | 7     | 7     | 7     | 6     | 6     |

### 83.—Money Order Statistics, by Provinces, and Total Postal Notes, fiscal years ended Mar. 31, 1930-34—concluded.

| Province.                                                             | 1930.              | 1931.              | 1932.              | 1933.              | 1934.              |
|-----------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Money Orders Issued in—</b>                                        | <b>No.</b>         | <b>No.</b>         | <b>No.</b>         | <b>No.</b>         | <b>No.</b>         |
| <b>Canada</b> .....                                                   | <b>17,525,979</b>  | <b>16,313,134</b>  | <b>14,324,715</b>  | <b>12,659,379</b>  | <b>12,633,710</b>  |
| Prince Edward Island.....                                             | 151,000            | 151,811            | 128,996            | 108,485            | 117,322            |
| Nova Scotia.....                                                      | 1,177,126          | 1,134,996          | 1,008,232          | 832,395            | 880,606            |
| New Brunswick.....                                                    | 726,631            | 689,993            | 566,527            | 459,879            | 483,746            |
| Quebec.....                                                           | 2,859,337          | 2,698,723          | 2,261,175          | 1,877,359          | 1,864,996          |
| Ontario.....                                                          | 4,813,685          | 4,587,967          | 4,006,994          | 3,372,544          | 3,320,911          |
| Manitoba.....                                                         | 1,240,430          | 1,139,333          | 1,013,233          | 925,918            | 932,236            |
| Saskatchewan.....                                                     | 3,057,750          | 2,653,994          | 2,331,567          | 2,219,345          | 2,228,527          |
| Alberta.....                                                          | 2,056,748          | 1,848,114          | 1,760,455          | 1,634,159          | 1,654,541          |
| British Columbia.....                                                 | 1,431,630          | 1,396,018          | 1,235,615          | 1,218,591          | 1,140,596          |
| Yukon.....                                                            | 11,642             | 12,185             | 11,921             | 10,704             | 10,229             |
| <b>Value of Money Orders Issued in—</b>                               | <b>\$</b>          | <b>\$</b>          | <b>\$</b>          | <b>\$</b>          | <b>\$</b>          |
| <b>Canada</b> .....                                                   | <b>197,699,353</b> | <b>167,749,651</b> | <b>132,625,260</b> | <b>107,767,394</b> | <b>107,471,321</b> |
| Prince Edward Island.....                                             | 1,711,245          | 1,691,838          | 1,295,973          | 955,242            | 1,016,634          |
| Nova Scotia.....                                                      | 12,746,150         | 11,722,636         | 9,514,229          | 7,247,988          | 7,268,581          |
| New Brunswick.....                                                    | 8,236,195          | 7,408,956          | 5,515,290          | 4,085,415          | 4,151,138          |
| Quebec.....                                                           | 29,319,688         | 26,450,677         | 20,553,932         | 15,729,506         | 15,213,011         |
| Ontario.....                                                          | 53,684,637         | 47,294,433         | 37,497,963         | 28,998,040         | 28,211,079         |
| Manitoba.....                                                         | 13,771,052         | 11,531,294         | 9,006,233          | 7,642,324          | 7,843,981          |
| Saskatchewan.....                                                     | 35,195,401         | 26,142,693         | 19,888,827         | 18,556,560         | 18,944,362         |
| Alberta.....                                                          | 25,212,265         | 19,530,976         | 17,050,391         | 14,903,895         | 14,840,731         |
| British Columbia.....                                                 | 17,570,155         | 15,727,241         | 12,098,869         | 9,453,581          | 9,807,995          |
| Yukon.....                                                            | 252,565            | 248,907            | 203,553            | 164,843            | 143,809            |
| <b>Money Orders Paid in—</b>                                          | <b>No.</b>         | <b>No.</b>         | <b>No.</b>         | <b>No.</b>         | <b>No.</b>         |
| <b>Canada</b> .....                                                   | <b>16,261,451</b>  | <b>15,194,131</b>  | <b>13,719,521</b>  | <b>12,239,065</b>  | <b>12,215,611</b>  |
| Prince Edward Island.....                                             | 55,522             | 57,168             | 50,802             | 44,654             | 43,041             |
| Nova Scotia.....                                                      | 670,986            | 659,447            | 627,269            | 528,288            | 538,841            |
| New Brunswick.....                                                    | 1,148,453          | 1,075,018          | 929,408            | 744,867            | 774,924            |
| Quebec.....                                                           | 2,760,896          | 2,569,951          | 1,838,959          | 1,572,443          | 1,541,862          |
| Ontario.....                                                          | 4,886,156          | 4,644,032          | 4,537,142          | 3,972,323          | 3,906,095          |
| Manitoba.....                                                         | 3,337,598          | 2,980,705          | 2,746,432          | 2,588,330          | 2,688,168          |
| Saskatchewan.....                                                     | 1,833,069          | 1,715,563          | 1,625,339          | 1,527,786          | 1,473,521          |
| Alberta.....                                                          | 831,021            | 762,442            | 691,926            | 648,958            | 640,394            |
| British Columbia.....                                                 | 736,320            | 728,355            | 671,014            | 610,333            | 607,896            |
| Yukon.....                                                            | 1,430              | 1,450              | 1,230              | 1,083              | 869                |
| <b>Value of Money Orders Paid in—</b>                                 | <b>\$</b>          | <b>\$</b>          | <b>\$</b>          | <b>\$</b>          | <b>\$</b>          |
| <b>Canada</b> .....                                                   | <b>189,558,749</b> | <b>162,773,000</b> | <b>131,421,945</b> | <b>107,908,214</b> | <b>106,908,174</b> |
| Prince Edward Island.....                                             | 962,829            | 905,202            | 743,777            | 573,511            | 557,281            |
| Nova Scotia.....                                                      | 8,615,555          | 8,089,034          | 6,826,980          | 5,272,743          | 5,131,281          |
| New Brunswick.....                                                    | 12,492,358         | 11,057,962         | 8,432,979          | 6,157,997          | 6,186,968          |
| Quebec.....                                                           | 30,400,388         | 26,985,799         | 18,751,132         | 14,545,094         | 13,966,669         |
| Ontario.....                                                          | 54,669,932         | 48,548,791         | 41,822,499         | 33,407,867         | 32,529,477         |
| Manitoba.....                                                         | 35,474,588         | 27,537,919         | 22,247,614         | 20,161,603         | 21,378,560         |
| Saskatchewan.....                                                     | 21,527,687         | 17,473,777         | 16,267,265         | 12,590,724         | 12,194,519         |
| Alberta.....                                                          | 13,784,609         | 11,467,571         | 9,780,572          | 8,384,182          | 8,061,119          |
| British Columbia.....                                                 | 11,595,062         | 10,672,398         | 8,525,908          | 6,798,175          | 6,887,535          |
| Yukon.....                                                            | 35,741             | 34,546             | 23,219             | 16,318             | 14,765             |
| <b>Postal Notes—</b>                                                  |                    |                    |                    |                    |                    |
| Total notes received and paid..... No.                                | 8,466,055          | 8,145,855          | 7,227,262          | 5,963,810          | 5,115,761          |
| Total value, including postage and postal note stamps affixed..... \$ | 15,578,489         | 14,681,376         | 12,629,304         | 10,530,490         | 9,247,459          |

**Postage Stamps.**—The value of the postage stamps, post cards, etc., sold during each of the latest seven fiscal years, was: \$26,200,776 in 1928, \$26,475,541 in 1929, \$27,101,353 in 1930, \$25,769,781 in 1931, \$27,242,715 in 1932, \$25,999,159



in 1933 and \$25,541,129 in 1934. Receipts from postage paid in cash were as follows: \$7,467,611 in 1928, \$8,410,255 in 1929, \$9,045,805 in 1930, \$8,887,322 in 1931, \$9,078,136 in 1932, \$8,173,950 in 1933 and \$8,129,387 in 1934.

**Air-Mail Services.**—The total poundage of mail carried by air throughout Canada during the year ended Mar. 31, 1934 was 592,758 lb., an increase of 30 p.c. over the previous year, while the mileage flown showed an increase of approximately 10 p.c.

An interesting feature of the returns is the volume of mail carried by air into the several mining districts, and there would seem to be little doubt that aerial postal communication contributes materially to the development of Canada's natural resources.

**84.—Mileage Flown and Weight of Mails Carried by Air, fiscal year ended Mar. 31, 1934.**

| Route.                                                                                        | Distance. | Single Trips Scheduled. | Trips Made.  | Total Distance Flown. | Weight of Mail Carried. |
|-----------------------------------------------------------------------------------------------|-----------|-------------------------|--------------|-----------------------|-------------------------|
|                                                                                               | miles.    | No.                     | No.          | miles.                | lb.                     |
| Amos-Siscoe.....                                                                              | 42        | 246                     | 250          | 10,500                | 27,749                  |
| Big River-Ile à la Crosse.....                                                                | 127       | 48                      | 46           | 5,674                 | 21,265                  |
| Buffalo-London-Detroit (discontinued June 10, 1933).....                                      | 245.5     | 4                       | 4            | 982                   | 2                       |
| Cameron Bay-Coppermine (inaugurated January, 1934).....                                       | 165       | 2                       | 5            | 825                   | 1,593                   |
| Charlottetown-Magdalen islands.....                                                           | 106       | 28                      | 28           | 2,968                 | 12,338                  |
| Fort Resolution-Fort Rae.....                                                                 |           | 24                      | 112          |                       |                         |
| Fort Rae-Camsell River-Cameron Bay (Camsell River added as a point of call Dec. 3, 1933)..... | 428       | 24                      | 109          | 46,339                | 12,312                  |
| Havre St. Pierre-Port Menier (supersedes Seven Is.-Anticosti Dec. 24, 1933).....              | 45.5      | 14                      | 16           | 728                   | 6,420                   |
| Lac du Bonnet-Bissett.....                                                                    | 71        | 202                     | 286          | 20,306                | 49,482                  |
| Leamington-Pelee island.....                                                                  | 22        | 196                     | 168          | 3,696                 | 14,906                  |
| Moncton-Charlottetown via Summer-side.....                                                    | 86        | 408                     | 398          | 34,480                | 115,380                 |
| Montreal-Albany.....                                                                          | 100       | 313                     | 278          | 55,341                | 59,152                  |
| Montreal-Rimouski.....                                                                        | 200       | 66                      | 54           | 16,714                | 33,253                  |
| Peace River-North Vermilion (mileage revised from 167 to 212, August, 1933).....              | 309.5     | 32                      | 67           | 12,887                | 39,959                  |
| Prince Albert-Lac la Ronge.....                                                               | 212       | 24                      | 33           | 4,785                 | 10,955                  |
| Quebec-Seven Is. (includes special trips).....                                                | 145       | 68                      | 72           | 22,976                | 35,662                  |
| Seven Is.-Natashquan (includes special trips).....                                            | 339       | 30                      | 54           | 9,299                 | 25,820                  |
| Sioux Lookout-Narrow lake.....                                                                | 205       | 210                     | 352          | 51,187                | 55,853                  |
| Sioux Lookout-Red lake.....                                                                   | 166       | 60                      | 62           | 930                   | 1,191                   |
| Siscoe-Pascal (discontinued July 4, 1933).....                                                | 116       | 464                     | 444          | 27,084                | 472                     |
| Vancouver-Victoria.....                                                                       | 15        | 631                     | 622          | 42,563                | 12,433                  |
| Winnipeg-Pembina.....                                                                         | 61        | varied.                 | —            | 4,137                 | 1,527                   |
| Special flights.....                                                                          | 66.4      |                         |              |                       |                         |
| Mackenzie River Service—                                                                      | varied.   |                         |              |                       |                         |
| Fort McMurray-Fort Smith.....                                                                 |           | 160                     | 205          |                       |                         |
| Fort Smith-Fort Resolution.....                                                               |           | 80                      | 178          |                       |                         |
| Fort Resolution-Fort Simpson.....                                                             |           | 24                      | 45           | 139,289               | 55,034                  |
| Fort Simpson-Aklavik.....                                                                     |           | 12                      | 27           |                       |                         |
| <b>Totals.....</b>                                                                            | <b>—</b>  | <b>3,370</b>            | <b>3,915</b> | <b>513,690</b>        | <b>592,758</b>          |

**Subsidies, etc.**—The conveyance of mail by land, water and air entailed a total expenditure of \$13,140,593 during the fiscal year ended 1934. Land transportation (largely that by rural delivery) cost \$6,097,562, railway carriage cost \$6,557,541, conveyance by steamship cost \$270,600, while that by air cost \$214,890. These amounts were paid solely for services rendered as carriers. In addition, however, considerable mail is carried, on both the Atlantic and Pacific coasts, by steamships and steamship lines which are especially subsidized by the Government. Table 85, showing amounts so paid in 1932, 1933 and 1934, follows.

**85.—Mail Subsidies and Steamship Subventions, fiscal years ended Mar. 31, 1932-34.**

NOTE.—The figures in the following table were supplied by F. E. Bawden, Esq., Director of Steamship Subsidies, Department of Trade and Commerce. They appear annually in the Annual Report of the Auditor General and represent the amounts paid in connection with contracts made under statutory authority by the Department of Trade and Commerce for trade services, including the conveyance of mails.

| Service.                                                                                               | 1932.            | 1933.            | 1934.            |
|--------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|
|                                                                                                        | \$               | \$               | \$               |
| <b>Atlantic Ocean—</b>                                                                                 |                  |                  |                  |
| Canada and Great Britain.....                                                                          | 802,000          | 535,000          | 535,000          |
| Canada and South Africa.....                                                                           | 150,000          | 112,500          | 112,500          |
| Eastern Canada and Brazil, Uruguay and Argentina.....                                                  | 100,000          | —                | —                |
| To assist the carriage of livestock to Europe.....                                                     | 43,739           | —                | 14,952           |
| <b>Pacific Ocean—</b>                                                                                  |                  |                  |                  |
| British Columbia, Australia and/or China.....                                                          | 92,400           | 66,000           | 135,600          |
| Canada, China and Japan.....                                                                           | 988,000          | 659,000          | 659,000          |
| Canada and New Zealand, on the Pacific.....                                                            | 100,000          | 75,000           | 100,000          |
| Prince Rupert, B.C., and the Queen Charlotte islands.....                                              | 16,800           | 15,447           | 15,447           |
| Vancouver and the British West Indies.....                                                             | 45,900           | 37,350           | 37,350           |
| Vancouver and ports on Howe sound.....                                                                 | 4,000            | —                | —                |
| Vancouver and northern ports of British Columbia.....                                                  | 19,840           | 18,600           | 18,600           |
| Victoria, Vancouver, way ports and Skagway.....                                                        | 25,000           | 12,500           | 12,500           |
| Victoria and west coast Vancouver island.....                                                          | 12,000           | 11,250           | 11,250           |
| British Columbia and South Africa.....                                                                 | —                | —                | 42,000           |
| <b>Local Services—</b>                                                                                 |                  |                  |                  |
| Baddeck and Iona.....                                                                                  | 10,500           | 10,500           | 8,000            |
| Charlottetown and Pictou.....                                                                          | 40,000           | 30,000           | 30,000           |
| Charlottetown, Victoria and Holiday's Wharf.....                                                       | 5,600            | 4,600            | 4,600            |
| Dalhousie, N.B., and Carleton, Que.....                                                                | 2,400            | —                | —                |
| Grand Manan and the mainland.....                                                                      | 33,000           | 24,750           | 24,750           |
| Halifax and Bay St. Lawrence.....                                                                      | 2,880            | 2,880            | 2,880            |
| Halifax, Canso and Guysborough.....                                                                    | 7,200            | 6,750            | 6,750            |
| Halifax, LaHave and LaHave River ports.....                                                            | 4,754            | —                | —                |
| Halifax and Sherbrooke.....                                                                            | 793              | 1,000            | 1,000            |
| Halifax, South Cape Breton and Bras d'Or Lake ports.....                                               | 4,000            | 3,750            | 3,750            |
| Halifax, Spry Bay and Cape Breton ports.....                                                           | 4,800            | 4,500            | 4,500            |
| Halifax and west coast of Cape Breton.....                                                             | 4,800            | 4,500            | 4,500            |
| Ile aux Coudres and les Eboulements.....                                                               | 2,000            | —                | —                |
| Mainland, Miscou and Shippigan.....                                                                    | 1,600            | 929              | 1,000            |
| Mulgrave, Arichat and Petit de Grat.....                                                               | 12,000           | 33,750           | 33,750           |
| Mulgrave and Canso.....                                                                                | 21,613           | —                | —                |
| Mulgrave and Guysborough, calling at intermediate ports.....                                           | 10,987           | 10,500           | 10,500           |
| Murray Bay and north shore (winter service).....                                                       | 35,290           | 54,147           | 50,000           |
| Newcastle, Neguac and Escuminac, calling at intermediate ports on the Miramichi river and bay.....     | 3,600            | 1,525            | —                |
| Parrsboro, Kingsport and Wolfville.....                                                                | 3,935            | 2,500            | 2,500            |
| Pelee island and the mainland.....                                                                     | 8,800            | 8,250            | 8,250            |
| Pictou, Mulgrave and Cheticamp.....                                                                    | 11,000           | 8,250            | 13,750           |
| Pictou, New Glasgow and Antigonish Co. ports.....                                                      | 800              | —                | —                |
| Pictou, Souris and the Magdalen islands.....                                                           | 50,000           | 37,500           | 37,500           |
| Port Mulgrave, St. Peters, Irish cove and Marble Mountain.....                                         | 8,280            | —                | —                |
| Quebec, Natashquan and Harrington, and other ports on the north shore of the gulf of St. Lawrence..... | 85,000           | 85,000           | 85,000           |
| Quebec or Montreal and Gaspé, and other ports on the south shore of the gulf of St. Lawrence.....      | 60,000           | 60,000           | 60,000           |
| Rimouski, Matane and the north shore of the lower St. Lawrence.....                                    | 50,000           | 37,500           | 37,500           |
| Rivière du Loup and Tadoussac, and other north shore ports.....                                        | 12,000           | 10,000           | 10,000           |
| St. Catherine's bay and Tadoussac.....                                                                 | 4,000            | 2,500            | 2,558            |
| Saint John, and Bear river and other way ports.....                                                    | 1,600            | —                | —                |
| Saint John and Bridgetown.....                                                                         | 800              | 800              | 800              |
| Saint John and Digby.....                                                                              | 12,000           | 10,000           | —                |
| Saint John, Digby, Annapolis and Granville.....                                                        | 1,600            | 2,000            | 2,000            |
| Saint John and Margareville, and other ports on the bay of Fundy.....                                  | 3,471            | 3,000            | 3,000            |
| Saint John and Minas Basin ports.....                                                                  | 5,000            | 3,750            | 3,750            |
| Saint John and St. Andrews, calling at intermediate ports.....                                         | 3,200            | 3,000            | 3,000            |
| Saint John, Westport and Yarmouth, and other way ports.....                                            | 14,400           | 13,500           | 13,500           |
| Saint John and Weymouth.....                                                                           | 375              | 425              | 400              |
| Summersville, Burlington and Windsor, N.S.....                                                         | 400              | 750              | 750              |
| Sydney and Bay St. Lawrence, calling at way ports.....                                                 | 20,000           | 18,750           | 18,750           |
| Sydney and Bras d'Or Lake ports, and ports on the west coast of Cape Breton.....                       | 13,569           | 21,225           | 21,225           |
| Sydney and Whyecocomagh.....                                                                           | 16,000           | 12,000           | 12,000           |
| Inspection of subsidized steamship services.....                                                       | 4,998            | 4,390            | 4,249            |
| <b>Totals.....</b>                                                                                     | <b>2,998,724</b> | <b>2,081,818</b> | <b>2,220,661</b> |

## CHAPTER XIX.—LABOUR AND WAGES.\*

### PART 1.—LABOUR.

#### Section 1.—Occupations of the People.

The occupations of the people of a country are, at any given time, mainly determined by its natural resources and the stage which has been reached in their development. The outstanding characteristics of Canada are its enormous extent, its immense natural resources and the comparatively slight development of these, only the resources of the southern portions being as yet at all well-known. The developed areas fall into four economic units with quite distinct physical characteristics: first, the Maritime Provinces, where lands, forests, mines and fisheries are the chief natural resources; secondly, Ontario and Quebec, with lands, forests, mines and abundant water power for manufacturing purposes; thirdly, the Prairie Provinces, where the land is the chief natural resource, except in Alberta which contains immense coal deposits; lastly, British Columbia, with fisheries, forests and mines, where agriculture plays a comparatively minor part. When the country as a whole is considered, the immense fertile areas of arable land must be considered as its chief natural resource, but in different parts of its vast expanse other resources predominate and give the key to the chief occupations of the people.

In Canada, as in other new countries, the labouring population (using the term in its widest sense) bears a larger proportion to the total than is the case in older civilizations where there exists more realized wealth. In addition to our native-born workers, great numbers of young males and smaller numbers of females, who have nothing to sell but their personal services, have, in the past, immigrated from older countries to Canada to find here a better market for their labour. Thus both the sex distribution and the age distribution of the population of Canada is rendered somewhat abnormal, an unusually large percentage of that population being of working age and of the male sex—that is, of the sex which is most generally gainfully employed.†

A gainful occupation for census purposes is an occupation by which the person who pursues it earns money or money equivalent, or in which he assists in the production of marketable goods. Children working at home or women doing housework in their own homes without wages, and having no other employment, were not included among the gainfully employed. A person who happened to be idle or unemployed at the date of the census was enumerated as of the occupation usually followed when employed, or of the occupation in which last regularly employed.

The gainfully occupied, as defined above, recorded in the Census of 1931 are presented in the tables which follow under two different classifications, *i.e.*, by occupations in Table 1 and by industries in Table 2. The differences in these classifications are explained in the introductions to the tables.

**The Labour Force of Canada in 1931.**—In 1931, out of a total population 10 years of age and over in the nine provinces of 8,159,059 over (including 3,668 of unstated ages), 3,927,591 or 48·1 p.c. were gainfully occupied, as compared with 3,173,169 or 47·5 p.c. in 1921, 2,723,634 or 49·4 p.c. in 1911, 43·9 p.c. in 1901 and 44·5 p.c. in 1891.

\* The sections and subsections of this chapter, with the exceptions of Sections 1, 3, 7 and Section 9, Subsections 3 and 5, all of Part I and Section 4 of Part II, have been revised by, or under the direction of, W. M. Dickson, Deputy Minister, Department of Labour, Ottawa. The information in Section 3, Part I, has been obtained through the courtesy of the Provincial Departments of Labour or Bureaus of Labour, and that in Section 7, Part I, has been revised by the chairmen of the respective provincial Workmen's Compensation Boards. The remaining sections have been prepared in the Dominion Bureau of Statistics.

† On the sex distribution of the population, see pp. 111-113; on the age distribution, see pp. 117-120.

**Male Labour in 1931.**—Of the male population in the nine provinces 10 years of age and over in 1931 (4,252,537) 3,261,570 or 76·6 p.c. were gainfully occupied, as compared with 2,683,019 or 77·5 p.c. in 1921, 2,358,813 or 79·5 p.c. in 1911, 74·2 p.c. in 1901 and 76·6 p.c. in 1891. Thus the latest census shows a decrease in the proportion of males gainfully occupied, a decrease probably due partly to a later age at school leaving, partly to a change in the age distribution of the male population 10 years of age and over, a larger percentage of the total being at relatively advanced ages, and a smaller percentage in the younger groups. For example, 5·5 p.c. of the males of Canada were over 65 years of age in 1931 as compared with 4·7 p.c. in 1921.

**Female Labour in 1931.**—Of the female population of 10 years and over in the nine provinces, numbering altogether 3,906,522 in 1931, 666,021 or 17·1 p.c. were then gainfully occupied, as compared with 490,150 or 15·3 p.c. in 1921, 364,821 or 14·3 p.c. in 1911, 12·0 p.c. in 1901 and 11·1 p.c. in 1891. Thus the tendency for women to go increasingly into gainful occupations, which has been noticeable since 1891, continues.

**Occupational Classification.**—The classification of occupations was based upon the principle of the material worked on, the process performed and type of service rendered, while degree of skill was also taken into account. The detailed classification, which is given in full detail by provinces in Bulletin XXXI, Census of 1931, provides readily for a combination of occupations into more comprehensive occupational groups.

It was considered to be more useful to group all the building trades together under Construction rather than to assign some to other groups. For example, the occupation "carpenters" might have been included under Wood Products and "plumbers, gasfitters, steamfitters" under Metal Products. The arrangement endeavours to provide as convenient a grouping of occupations as possible without seriously departing from the principle of assigning certain occupations to specific groups. Clerical occupations which can hardly be included under one occupational division more than another are shown in a separate group. The occupation "labourer" is not included in any of the groups except the primary ones—"agricultural", "mining", and "logging". In the "logging" group the labourers have been included in "lumbermen". "Labourers" in all but the primary industries were classified in a residuary occupation "labourers and unskilled workers (not agricultural, mining or logging)". No attempt was made to classify them occupationally because it was felt that the labourer in an automobile factory, for example, is not necessarily following a metal-working occupation or a labourer in a store, a commercial one.

**1.—Persons, Ten Years of Age and Over, Engaged in Gainful Occupations in Canada, by Sex and Occupation, 1931.**

| Occupation.                                      | Male.            | Female.       | Total.           |
|--------------------------------------------------|------------------|---------------|------------------|
| <b>Agricultural<sup>1</sup></b> .....            | <b>1,107,669</b> | <b>24,202</b> | <b>1,131,871</b> |
| Farmers, stock-raisers, gardeners, etc.....      | 624,988          | 19,184        | 644,172          |
| Farm labourers.....                              | 478,554          | 4,959         | 483,513          |
| <b>Fishing, Hunting and Trapping</b> .....       | <b>47,419</b>    | <b>498</b>    | <b>47,917</b>    |
| Fishermen.....                                   | 33,624           | 138           | 33,762           |
| Hunters, trappers, guides.....                   | 13,795           | 360           | 14,155           |
| <b>Logging<sup>1</sup></b> .....                 | <b>43,983</b>    | <b>—</b>      | <b>43,983</b>    |
| Lumbermen.....                                   | 37,536           | —             | 37,536           |
| <b>Mining, Quarrying, etc.</b> .....             | <b>58,574</b>    | <b>6</b>      | <b>58,580</b>    |
| Coal mining <sup>1</sup> .....                   | 27,749           | 1             | 27,750           |
| Miners.....                                      | 17,519           | —             | 17,519           |
| Other mining, quarrying, etc. <sup>1</sup> ..... | 30,825           | 5             | 30,830           |
| Miners, quarryers, drillers.....                 | 15,254           | —             | 15,254           |

For footnotes see end of table p. 801.



1.—Persons, Ten Years of Age and Over, Engaged in Gainful Occupations  
in Canada, by Sex and Occupation, 1931—concluded.

| Occupation.                                                                              | Male.            | Female.        | Total.           |
|------------------------------------------------------------------------------------------|------------------|----------------|------------------|
| <b>Manufacturing</b> .....                                                               | <b>358,117</b>   | <b>84,642</b>  | <b>442,759</b>   |
| Vegetable products.....                                                                  | 29,633           | 6,683          | 36,316           |
| Animal products.....                                                                     | 42,718           | 7,851          | 50,569           |
| Textiles.....                                                                            | 13,870           | 14,228         | 28,098           |
| Wood and paper products.....                                                             | 42,431           | 3,285          | 45,716           |
| Printing, publishing, etc.....                                                           | 22,815           | 3,392          | 26,207           |
| Metal products, electrical apparatus.....                                                | 165,146          | 3,674          | 168,820          |
| Non-metallic mineral products.....                                                       | 9,266            | 314            | 9,580            |
| Chemicals and allied products.....                                                       | 4,323            | 455            | 4,778            |
| Miscellaneous products.....                                                              | 4,574            | 978            | 5,552            |
| <b>Electric Light and Power, Stationary Enginem<sup>1</sup></b> .....                    | <b>32,450</b>    | <b>3</b>       | <b>32,453</b>    |
| Stationary enginem <sup>1</sup> and firemen.....                                         | 23,355           | —              | 23,355           |
| <b>Building and Construction<sup>1</sup></b> .....                                       | <b>203,035</b>   | <b>97</b>      | <b>203,132</b>   |
| Brick and stone masons.....                                                              | 10,823           | —              | 10,823           |
| Carpenters.....                                                                          | 79,785           | —              | 79,785           |
| Electricians and wiremen.....                                                            | 20,224           | —              | 20,224           |
| Painters, glaziers, etc.....                                                             | 33,711           | —              | 33,711           |
| Plumbers, steamfitters, sheet metal workmen, etc.....                                    | 22,338           | 88             | 22,426           |
| <b>Transportation and Communications</b> .....                                           | <b>248,626</b>   | <b>17,242</b>  | <b>265,868</b>   |
| Railway transportation <sup>1</sup> .....                                                | 83,759           | 21             | 83,780           |
| Steam railway conductors and brakemen.....                                               | 13,171           | —              | 13,171           |
| Locomotive engineers and firemen.....                                                    | 13,876           | —              | 13,876           |
| Section foremen, sectionmen, trackmen.....                                               | 23,582           | —              | 23,582           |
| Street car conductors and motormen.....                                                  | 8,677            | —              | 8,677            |
| Water transportation <sup>1</sup> .....                                                  | 29,434           | 214            | 29,648           |
| Seamen, sailors, deck hands.....                                                         | 11,408           | —              | 11,408           |
| Engineers, firemen, etc.....                                                             | 5,172            | —              | 5,172            |
| Road transportation <sup>1</sup> .....                                                   | 96,222           | 53             | 96,275           |
| Chauffeurs, bus and truck drivers.....                                                   | 59,165           | 15             | 59,180           |
| Teamsters, deliverymen, drivers.....                                                     | 28,470           | —              | 28,470           |
| Other transportation and communications <sup>1</sup> .....                               | 39,211           | 16,954         | 56,165           |
| Postmen, mail carriers.....                                                              | 6,695            | 51             | 6,746            |
| Telegraph and telephone operators.....                                                   | 6,998            | 15,122         | 22,120           |
| Messengers.....                                                                          | 12,873           | 360            | 13,233           |
| Linemen, cablemen.....                                                                   | 6,784            | —              | 6,784            |
| <b>Warehousing and Storage</b> .....                                                     | <b>26,993</b>    | <b>8,202</b>   | <b>35,195</b>    |
| <b>Commercial<sup>1</sup></b> .....                                                      | <b>259,823</b>   | <b>54,108</b>  | <b>313,931</b>   |
| Owners, managers, dealers, retail stores.....                                            | 94,168           | 6,706          | 100,874          |
| Salesmen, saleswomen.....                                                                | 100,605          | 44,982         | 145,587          |
| Commercial travellers.....                                                               | 16,539           | 72             | 16,611           |
| <b>Finance, Insurance, Real Estate<sup>1</sup></b> .....                                 | <b>36,241</b>    | <b>577</b>     | <b>36,818</b>    |
| Insurance agents.....                                                                    | 17,028           | 351            | 17,379           |
| <b>Service</b> .....                                                                     | <b>289,737</b>   | <b>347,752</b> | <b>637,489</b>   |
| Public administration and defence.....                                                   | 31,273           | 194            | 31,467           |
| Professional <sup>1</sup> .....                                                          | 122,725          | 118,060        | 240,785          |
| Clergymen, nuns, brothers, religious workers.....                                        | 15,478           | 9,518          | 24,996           |
| Lawyers, justices, magistrates.....                                                      | 8,539            | 85             | 8,624            |
| Doctors, dentists, opticians, osteopaths, etc.....                                       | 15,123           | 346            | 15,469           |
| Nurses, graduate and in training.....                                                    | —                | 31,903         | 31,903           |
| Professors, teachers (incl. physical training).....                                      | 21,940           | 65,199         | 87,139           |
| Engineering professions (civil, mining, chemical, architects,<br>draughtsmen, etc.)..... | 24,925           | 227            | 25,152           |
| Accountants, auditors.....                                                               | 18,948           | 830            | 19,778           |
| Entertainment and sport.....                                                             | 7,455            | 626            | 8,081            |
| Personal service <sup>1</sup> .....                                                      | 114,669          | 219,894        | 334,563          |
| Restaurant, hotel, boarding house keepers.....                                           | 16,794           | 20,693         | 37,487           |
| Matrons, stewards, waiters, waitresses.....                                              | 12,299           | 38,677         | 50,976           |
| Janitors, watchmen, caretakers.....                                                      | 28,115           | 1,062          | 29,177           |
| Barbers, hairdressers, manicurists and apprentices.....                                  | 16,369           | 6,743          | 23,112           |
| Cooks.....                                                                               | 17,942           | 7,815          | 25,757           |
| Domestic servants, n.e.s.....                                                            | 8,541            | 133,966        | 142,507          |
| Laundrying, cleaning, dyeing, pressing.....                                              | 13,615           | 8,978          | 22,593           |
| <b>Clerical (Stenographers, Bookkeepers, Office Clerks)</b> .....                        | <b>122,220</b>   | <b>116,663</b> | <b>238,883</b>   |
| <b>Labourers (not Agricultural, Mining or Logging)</b> .....                             | <b>425,304</b>   | <b>11,728</b>  | <b>437,032</b>   |
| <b>Unspecified</b> .....                                                                 | <b>1,379</b>     | <b>301</b>     | <b>1,680</b>     |
| <b>Totals, All Occupations</b> .....                                                     | <b>3,261,570</b> | <b>666,021</b> | <b>3,927,591</b> |
| <b>Employers</b> .....                                                                   | <b>387,762</b>   | <b>18,956</b>  | <b>406,658</b>   |
| <b>Own account</b> .....                                                                 | <b>549,633</b>   | <b>54,824</b>  | <b>604,457</b>   |
| <b>Wage and salary earners</b> .....                                                     | <b>2,622,461</b> | <b>547,996</b> | <b>2,670,457</b> |
| <b>No pay<sup>2</sup></b> .....                                                          | <b>301,774</b>   | <b>44,245</b>  | <b>346,019</b>   |

<sup>1</sup> Group totals include other occupations not specified.

<sup>2</sup> Farm labourers composed 82.2 p.c. of those receiving no pay. These were largely farmers' sons.

**Industrial Classification.**—The above occupational classification of the gainfully occupied differs from the industrial classification (Table 2) in that, in Table 1, all persons following occupations similar in nature come under the same occupational group irrespective of the industry in which employed, whereas in Table 2 persons in the same occupation may appear under several industrial groups, and any one industrial group may be made up of quite diverse occupations. For example, under "manufacturing", as an occupational group, are included only such occupations as are concerned with the making of some product, and each of these occupational classes contains every person following the occupation whether employed in factory or elsewhere. On the other hand, the group or division "manufacturing", in the industrial classification, includes occupations commercial, clerical, professional, etc., in their nature, as well as those directly connected with the making of various products, but only persons actually employed in factories come under this group. In other words, all machinists, all blacksmiths, in fact all persons following processing occupations, whether employed in factories or elsewhere, are included under the occupational group "manufacturing" in Table 1, while the industry group "manufacturing" in Table 2 includes machinists and blacksmiths working in factories only, also persons following such occupations as clerks, civil engineers, truck drivers, etc., who were employed by manufacturing concerns.

**2.—Persons, Ten Years of Age and Over, Engaged in Gainful Occupations in Canada, by Sex and Industry, 1931.**

| Industry.                                                                                           | Male.            | Female.        | Total.           |
|-----------------------------------------------------------------------------------------------------|------------------|----------------|------------------|
| <b>Agriculture</b> .....                                                                            | <b>1,103,853</b> | <b>24,330</b>  | <b>1,128,183</b> |
| <b>Forestry, Fishing and Trapping</b> .....                                                         | <b>96,991</b>    | <b>755</b>     | <b>97,746</b>    |
| Fishing.....                                                                                        | 34,188           | 152            | 34,340           |
| Forestry and logging.....                                                                           | 49,716           | 244            | 49,960           |
| Hunting and trapping.....                                                                           | 13,087           | 359            | 13,446           |
| <b>Mining, Quarrying, Oil and Salt Wells</b> .....                                                  | <b>71,611</b>    | <b>358</b>     | <b>71,969</b>    |
| Gold mining and milling.....                                                                        | 12,545           | 48             | 12,593           |
| Other metal mining and milling.....                                                                 | 9,828            | 5              | 9,878            |
| Coal mining.....                                                                                    | 31,415           | 75             | 31,490           |
| Quarries, sand and gravel, asbestos, salt.....                                                      | 10,648           | 72             | 10,720           |
| Other and unspecified.....                                                                          | 7,175            | 113            | 7,288            |
| <b>Manufacturing</b> .....                                                                          | <b>521,336</b>   | <b>110,243</b> | <b>631,579</b>   |
| Vegetable products.....                                                                             | 61,271           | 16,607         | 77,878           |
| Animal products.....                                                                                | 43,356           | 11,127         | 54,483           |
| Textile products.....                                                                               | 43,789           | 48,950         | 92,739           |
| Wood and paper products, printing, etc.....                                                         | 140,384          | 14,430         | 154,814          |
| Iron and its products.....                                                                          | 139,429          | 6,575          | 146,004          |
| Non-ferrous metal products.....                                                                     | 31,943           | 5,098          | 37,041           |
| Non-metallic mineral products.....                                                                  | 31,230           | 1,870          | 33,100           |
| Chemicals and allied products.....                                                                  | 12,938           | 2,930          | 15,868           |
| Miscellaneous products.....                                                                         | 11,996           | 2,656          | 14,652           |
| <b>Electric Light and Power</b> .....                                                               | <b>17,487</b>    | <b>1,467</b>   | <b>18,954</b>    |
| <b>Construction (including Carpentry, Plumbing, Painting, etc.)</b> .....                           | <b>254,637</b>   | <b>1,645</b>   | <b>256,282</b>   |
| Buildings and structures.....                                                                       | 163,997          | 980            | 164,977          |
| Other and unspecified.....                                                                          | 90,640           | 665            | 91,305           |
| <b>Transportation and Communications (not including Postal Service)</b> .....                       | <b>282,953</b>   | <b>23,320</b>  | <b>306,273</b>   |
| Railways (steam, electric and express).....                                                         | 142,868          | 4,495          | 147,363          |
| Road services (including cartage, trucking, bus, taxicab, livery, storage and garage services)..... | 81,487           | 1,480          | 82,967           |
| Telegraph and telephone.....                                                                        | 19,335           | 16,345         | 35,680           |
| Water transportation.....                                                                           | 37,055           | 832            | 37,887           |
| Other.....                                                                                          | 2,208            | 168            | 2,376            |
| <b>Trade</b> .....                                                                                  | <b>302,303</b>   | <b>85,012</b>  | <b>387,315</b>   |
| Retail.....                                                                                         | 250,173          | 76,194         | 326,367          |
| Wholesale.....                                                                                      | 51,991           | 8,796          | 60,787           |
| Wholesale-retail dealing.....                                                                       | 139              | 22             | 161              |
| <b>Finance</b> .....                                                                                | <b>67,350</b>    | <b>24,967</b>  | <b>92,317</b>    |
| Banking.....                                                                                        | 22,133           | 6,686          | 28,819           |
| Insurance.....                                                                                      | 26,826           | 12,631         | 39,457           |
| Investment and loan.....                                                                            | 12,278           | 4,267          | 16,545           |
| Real estate.....                                                                                    | 6,113            | 1,383          | 7,496            |

**2.—Persons, Ten Years of Age and Over, Engaged in Gainful Occupations in  
Canada, by Sex and Industry, 1931—concluded.**

| Industry.                                                      | Male.            | Female.        | Total.           |
|----------------------------------------------------------------|------------------|----------------|------------------|
| <b>Service</b> .....                                           | <b>377,505</b>   | <b>390,200</b> | <b>767,705</b>   |
| Professional.....                                              | 97,406           | 146,260        | 243,666          |
| Education.....                                                 | 29,479           | 71,277         | 100,756          |
| Health.....                                                    | 24,153           | 44,274         | 68,427           |
| Law.....                                                       | 8,597            | 6,325          | 14,922           |
| Religion.....                                                  | 17,584           | 8,785          | 26,369           |
| Social welfare and charity organizations.....                  | 2,372            | 8,464          | 10,836           |
| Other.....                                                     | 15,221           | 7,135          | 22,356           |
| Public administration, n.e.s. <sup>1</sup> .....               | 101,319          | 15,520         | 116,839          |
| Federal and provincial.....                                    | 52,996           | 12,480         | 65,476           |
| Postal service.....                                            | 16,033           | 3,160          | 19,193           |
| National defence.....                                          | 5,974            | 118            | 6,092            |
| Other.....                                                     | 30,989           | 9,202          | 40,191           |
| Municipal.....                                                 | 47,993           | 2,902          | 50,895           |
| Foreign government service in Canada.....                      | 330              | 138            | 468              |
| Recreational.....                                              | 13,802           | 2,423          | 16,225           |
| Custom and repair.....                                         | 62,825           | 18,785         | 81,610           |
| Automobile repair shops and service stations.....              | 15,763           | 179            | 15,942           |
| Blacksmithing.....                                             | 11,937           | 12             | 11,949           |
| Custom tailoring, dressmaking, millinery, etc.....             | 7,812            | 11,586         | 19,398           |
| Laundering.....                                                | 10,127           | 5,348          | 15,475           |
| Other.....                                                     | 17,186           | 1,660          | 18,846           |
| Business service.....                                          | 4,884            | 1,738          | 6,622            |
| Personal service.....                                          | 97,269           | 205,474        | 302,743          |
| Barber and hairdressing shops.....                             | 16,402           | 6,807          | 23,209           |
| Hotels, restaurants, taverns, lodging and boarding houses..... | 58,328           | 48,756         | 107,084          |
| Private domestic service.....                                  | 12,693           | 146,419        | 159,112          |
| Other.....                                                     | 9,846            | 3,492          | 13,338           |
| <b>Totals, All Industries</b> .....                            | <b>3,261,570</b> | <b>666,021</b> | <b>3,927,591</b> |

<sup>1</sup> Such services as health, education, etc., administered by public authority as well as by private agencies are listed elsewhere. Only services peculiar to public administration are listed under this head.

## Section 2.—The Dominion Department of Labour.

The Department of Labour of the Dominion Government was established in 1900 under the authority of the Conciliation Act, 1900 (63-64 Vict., c. 24). Its chief duties originally comprised the administration of certain provisions of this statute designed to aid in the prevention and settlement of labour disputes, the administration of the Government's fair wages policy for the protection of workmen employed on Dominion Government contracts and on works aided by grants of public funds, the collection and classification of statistical and other information relative to conditions of labour, and the publication of a monthly periodical known as the *Labour Gazette*. From 1900 to 1909 the Department was administered by the Postmaster General, who was also Minister of Labour. It was constituted a separate Department under the Labour Department Act, 1909 (R.S.C., 1927, c. 111).

The work of the Department was greatly increased in 1907 by the passage of the Industrial Disputes Investigation Act (R.S.C., 1927, c. 112). At present the Department is also charged with the administration of an Act passed in 1918 known as the Employment Offices Co-ordination Act (R.S.C., 1927, c. 57), the Government Annuities Act of 1908 (R.S.C., 1927, c. 7), the Technical Education Act enacted in 1919 (R.S.C., 1927, c. 193), the White Phosphorus Matches Act of 1914 (R.S.C., 1927, c. 128), the Combines Investigation Act of 1923 (R.S.C., 1927, c. 26), the Old Age Pensions Act of 1927 (R.S.C., 1927, c. 156), the Fair Wages and Eight Hour Day Act of 1930 (20-21 Geo. V, c. 20), the Vocational Education Act, 1931 (21-22 Geo. V, c. 59), the Unemployment and Farm Relief Act, 1931



(21-22 Geo. V, c. 58), the Unemployment and Farm Relief Continuance Act, 1932 (22-23 Geo. V, c. 13), the Relief Act, 1932 (22-23 Geo. V, c. 36), the Relief Act, 1933 (23-24 Geo. V, c. 18), and the Relief Act, 1934 (24-25 Geo. V, c. 15). The scope of the Department has increased in other directions, especially in investigating the cost of living, and in connection with the International Labour Organization of the League of Nations. For a report of the operation of the Old Age Pensions Act, see p. 837 and for the proceedings under the Combines Investigation Act, 1923, see p. 850. For the operation of the Government Annuities Act of 1908 and the Technical Education Act, see the chapters on Insurance and Education, respectively.

**Industrial Disputes Investigation Act.**—The Industrial Disputes Investigation Act (R.S.C., 1927, c. 112), has attracted considerable favourable attention from legislators and publicists throughout the world. As enacted in 1907, it forbids strikes and lockouts in mines and certain public utility industries until the matters in dispute have been dealt with by a board of conciliation and investigation consisting of three members, two appointed by the Minister of Labour on the recommendation of the respective parties to the dispute, the third on the recommendation of the first two, or, if they fail to agree, by the Minister himself. Should either of the parties fail to nominate a board member, the Minister may appoint a fit person on its behalf. After the board has made its report, either of the parties to the dispute may reject it and declare a strike or a lockout, a course adopted, however, only in a small percentage of cases. The machinery of the Act may be extended to other industries with the consent of the parties concerned. In January, 1925, a judgment was rendered by the Judicial Committee of the Privy Council declaring that the Act as it stood was not within the competence of the Dominion Parliament.\* At the ensuing session of Parliament amendments were made to the statute, with the object of limiting its operation to matters not within exclusive provincial jurisdiction. It was also provided by these amendments that the statute should apply in the case of "any dispute which is within the exclusive legislative jurisdiction of any Province and which by the legislation of the Province is made subject to the provisions of this Act".

The Legislatures of all provinces except Prince Edward Island have taken advantage of this provision and enacted enabling legislation, by which the Dominion Industrial Disputes Investigation Act becomes operative in respect of disputes of the classes named in the Dominion law and otherwise within exclusive provincial jurisdiction.

A review of the proceedings under the Industrial Disputes Investigation Act from its enactment in March, 1907, to Mar. 31, 1934, shows that, during the 27 years, 802 applications were received for the establishment of boards of conciliation and investigation, as a result of which 536 boards were established. In all but 38 cases, strikes or lockouts were averted or ended.

**Fair Wages Branch.**—The Fair Wages Branch of the Department of Labour is charged with the preparation of fair wages conditions and schedules of minimum wage rates, which are inserted in Dominion Government contracts and must be adhered to by contractors in the execution of such works. The number of fair wages schedules prepared, from the adoption of the Fair Wages Resolutions in 1900 up to the end of the fiscal year 1933-34 was 6,131. The number of fair wages schedules and clauses furnished during the fiscal year 1933-34 was 123.

\*See p. 241 of the *Labour Gazette* for February, 1925, for text of judgment of the Judicial Committee of the Privy Council in regard to the validity of this statute.



The fair wages policy of the Government of Canada was originally based on a resolution adopted by the House of Commons in 1900 and expressed in an Order in Council adopted on June 7, 1922, and amended on April 9, 1924. As drawn up by Order in Council it was applied to contracts for building and construction operations, also to contracts for the manufacture of certain classes of Government supplies. The policy required that the current wage rates and working hours of the district should be observed in the case of all workmen employed, or if there were no current rates or hours in existence, then fair and reasonable conditions in both respects. Contracts for railway construction to which the Dominion Government has granted financial aid, either by way of subsidy or guarantee, are likewise subject to fair wages conditions. The policy has, moreover, been extended within recent years to cover contracts for works carried out by the several Harbour Commissions and aided by grants of public funds.

On May 30, 1930, an Act of Parliament was adopted, known as the Fair Wages and Eight Hour Day Act, 1930, which provides for the payment of current wage rates to all persons employed on contracts made with the Government of Canada for works of construction, remodelling, repair or demolition, provided that the wages in all cases shall be fair and reasonable. This statute also directed that the working hours of persons while so employed shall not exceed eight hours a day. It was further declared that the foregoing conditions are to be applied to all workmen employed by the Government itself on the construction, remodelling, repair or demolition of any work.

On Mar. 27, 1930, an Order in Council was passed providing that, except in cases where the work of employees was intermittent in character, or the application of the rule was not deemed to be practicable, or in the public interest, the hours of work of any Dominion Government employees who had up to that time been required to work more than eight hours daily should be reduced to eight hours a day, with a half holiday on Saturday.

An Order in Council was adopted on Dec. 31, 1934, rescinding the labour conditions previously applied to contracts for the manufacture of various classes of Government supplies, and substituting other conditions therefor. The provision for the payment of wages not less than current rates, or fair and reasonable rates if there are no current rates, is retained in the new conditions, but with the added proviso that in no event shall the wage rate for male workers 18 years of age and over be less than 30 cents an hour, and for female workers 18 years of age and over, 20 cents an hour. It is also declared that males and females under 18 years of age shall be entitled to rates of wages not less than those provided for women and girls in the minimum wage scales of the respective provinces, and that, in any cases where the provincial minimum wage laws require the payment of higher wages than those set out above, such higher rates shall apply in the execution of Dominion contract work.

The Department of Labour is frequently consulted by other Departments of the Government regarding the wage rates to be observed in connection with work undertaken on the day-labour plan.

**Labour Gazette.**—A monthly publication, known as the *Labour Gazette*, has been issued by the Dominion Department of Labour since its establishment in 1900. It contains a monthly review of the industrial situation in Canada and of the state of employment, including reports of the operations of the Employment Service of Canada in the various provinces, also information relative to: labour

legislation, wage rates and hours of labour, wholesale and retail prices of staple commodities in Canada and other countries, labour disputes (including the proceedings under the Industrial Disputes Investigation Act), industrial accidents, legal decisions affecting labour, industrial training and technical education, proceedings under the Combines Investigation Act, and other matters of general or current industrial interest. The *Labour Gazette* is widely distributed throughout Canada, and the statistical and other information contained therein is constantly used in connection with wages and other issues between employers and workers. A subscription charge of 20c. per annum is made for this publication.

**Labour Legislation.**—Much attention is devoted to labour legislation. Information as to new laws enacted by the Dominion and the provinces is kept up to date, while notes or articles regarding their provisions are published in the *Labour Gazette*. Since 1917, the Department has published annual reports containing the text of Canadian labour laws enacted during each year, together with an introduction summarizing this legislation under subject headings. The first of these reports was based on Dominion and provincial labour legislation as existing at the end of 1915. Reports on the labour laws enacted in the four succeeding years were published in regular order. In 1920 a further consolidation was brought out and annual reports supplementary thereto were issued in 1921, 1922, 1923, 1924, 1925 and 1926. A third consolidated report on labour legislation, containing the texts of the Dominion and provincial labour laws up to the end of 1928, was issued in 1929. Annual supplements containing labour laws of subsequent years were issued in 1930 to 1933, respectively. The Department of Labour has also published articles dealing with various provincial labour laws, indicating the extent to which these have been standardized and the differences which exist.

### Section 3.—Provincial Labour Departments and Bureaus.

The rapid industrial development at the end of the nineteenth century in Quebec and Ontario, the leading manufacturing provinces, brought with it the recognition of the need of special provincial offices to safeguard the interests of labour, with the result that the Ontario Bureau of Labour was established in 1900 and the Quebec Department of Public Works and Labour in 1905. In 1904 an Act was passed in New Brunswick providing for a Bureau of Labour, but this never became operative. Some years later, to cope with conditions created by the growth of industry in the West, Acts were passed providing for the creation of Provincial Bureaus of Labour in Manitoba (1915), in Saskatchewan (1920), and in Alberta (1922), while a Department of Labour was established in British Columbia in 1917. A Department of Labour was established in Nova Scotia by c. 3 of the Statutes of 1932, and the Manitoba Bureau of Labour became a Department in 1934. All these authorities publish annual reports on their activities.

**The Nova Scotia Department of Labour.**—The Act establishing the Nova Scotia Department of Labour provides that "the Department of Labour shall take cognizance of all matters relating to labour and shall administer such affairs, matters, Acts and regulations as the Governor in Council from time to time assigns to that Department, whether or not the same have been assigned or have belonged by or under any Act of the Legislature of Nova Scotia or otherwise to some other Department or to some member of the Executive Council".

The Department is in charge of a Minister of Labour, who has under him a Deputy Minister of Labour. The latter is empowered to collect and publish information and statistics affecting labour, and to administer such Acts as may be assigned to the Department by Order in Council. At present, labour bureaus in the province and the administration of the Factories Act have been assigned by Order in Council to the Department of Labour.

**The Quebec Department of Labour.**—This Department was formerly known as the Department of Public Works and Labour, each division having a separate Deputy Minister, but in 1931, the Legislature raised each division to a distinct Department.

The duties of the Department of Labour include the institution and control of inquiries into important industrial questions and those relating to manufactures, and it may collect useful facts and statistics relating thereto, to be transmitted to the Quebec Bureau of Statistics. The Department is charged with the administration of provincial Acts respecting industrial and commercial establishments, trade disputes, and the maintenance of fair wages clauses in Provincial Government contracts. The Women's Minimum Wage Commission is under its jurisdiction, together with the provincial Employment Service.

The Department is responsible for the licensing and qualification of electricians, moving picture machine operators, stationary enginemen and firemen, and pipe mechanics; it is also charged with the inspection of electrical installations, heating installations, steam, hot-water and hot-air furnaces, boilers registered under the Interprovincial Code, together with the registering of blue prints in connection with the construction of boilers. A special branch of the Department is entrusted with the inspection of public buildings and the approval of the plans of new buildings.

The Department, since the 1934 Session, is charged with the enforcement of the Collective Labour Agreements Extension Act; however, it has not the duty of leading employers and employees into the preparation of agreements. The Department has jurisdiction over the limitation of hours of work; since the coming into force of the Act giving it such authority, hours of labour, in the building trades, have been limited to forty per week throughout the province.

The Department also issues qualification certificates to workmen charged with the use and handling of explosives, and is responsible for the enforcement of the Scaffolding Inspection Act in towns where there is no municipal service providing for such duties.

**The Department of Labour of Ontario.**—The Department of Labour of Ontario was established in 1919 and placed under the direction of a Minister and a Deputy Minister of Labour. This Department had its origin in the Bureau of Industries formed in 1882 under the Department of Agriculture, to collect and publish statistics relating to the industries of the province and (later) to administer the first Factory Act of 1886. In 1900 a Bureau of Labour, attached to the Department of Public Works, was authorized to collect and publish information relating to employment, wages and hours, strikes, labour organizations and general conditions of labour. Several investigations were made regarding such matters and the first free employment offices were opened by the Bureau of Labour. In 1916 this Bureau was in turn superseded by the Trades and Labour Branch, also under the Ministry of Public Works but administered by a Superintendent. The establishment of the Branch had been recommended by the Ontario Commission on



Unemployment and the expansion of the work undertaken by the Branch, and the increase in the demands made upon its resources led to the creation of a special Department of the Government by the Department of Labour Act, 1919.

The Department of Labour administers the following Acts: the Department of Labour Act; the Factory, Shop and Office Building Act; the Steam Boiler Act; the Operating Engineers Act; the Building Trades Protection Act; the Employment Agencies Act; the Apprenticeship Act; the Regulations respecting the Protection of Persons working in Compressed Air; the Regulations respecting the Protection of Persons working in Tunnels and Open Caissons; the Minimum Wage Act. The Department is required to maintain employment offices, to collect information respecting employment, sanitary and other conditions in work places, wages and hours of work, and to study labour legislation in other parts of the British Empire and in foreign countries, as well as any suggested changes in the labour laws of Ontario. The representatives of the Department of Labour have right of access to offices, factories and other work places at any reasonable hour, and may be authorized to hold inquiries under the Public Inquiries Act. The Department publishes annual reports which cover the work of the officers employed in the administration of the various Acts assigned to it. The Minimum Wage Act is administered by the Minimum Wage Board.

**Manitoba Department of Labour.**—The Act of 1915, establishing the Manitoba Bureau of Labour, provided that it be attached to the Department of Public Works; an amendment of 1922, however, provided for its attachment to any other Department as the Lieutenant-Governor in Council may determine. The Bureau was created a separate Department by c. 28 of the Statutes of Manitoba, 1931, but the Act was not proclaimed until July 6, 1934.

The Department is charged with the administration of the following Acts: the Bureau of Labour Act; the Manitoba Factories Act; the Bake Shop Act; the Shops Regulation Act; the Minimum Wage Act; the Elevator and Hoist Act; the Steam Boiler Act; the Building Trades Protection Act; the Public Buildings Act; the Fair Wage Act; the Electricians' License Act; the Amusements Act (Secs. 11 to 15); the One Day's Rest in Seven Act; the Employment Bureau Act.

**Saskatchewan Bureau of Labour and Public Welfare.**—This Bureau was created by an Act of 1934 to replace the Department of Railways, Labour and Industries. It is administered by the Minister of Municipal Affairs, assisted by a permanent Commissioner. The function of the Bureau is to administer matters relating to the relief of distress in addition to the following Acts: the Factories Act; the Building Trades Protection Act; the Employment Agencies Act; the One Day Rest in Seven Act; the Weekly Half-Holiday Act; the Coal Mines Safety and Welfare Act; the Minimum Wage Act, and the Workmen's Wage Act. It is also charged with the operation of public free employment offices; the collection and publication of information and statistics relating to employment; wages and hours of labour throughout the province; strikes and other labour difficulties; trade unions and labour organizations; the relations between capital and labour, and other subjects connected with industrial problems; the commercial, industrial and sanitary conditions of employment.

**Alberta Bureau of Labour.**—The Act of 1922, creating the Alberta Bureau of Labour, provided that the Bureau be in charge of a Minister having under him a Commissioner of Labour. The latter is empowered to collect and publish infor-



mation and statistics affecting labour, and to administer such Acts as may be assigned to the Bureau by Order in Council. Important among these Acts are: the Alberta Government Employment Bureau Act; the Minimum Wage Act; the Boilers Act; the Factories Act; the Theatres Act; the Trade Schools Act.

**The British Columbia Department of Labour.**—This Department was instituted by an Act of 1917, under a Minister and Deputy Minister of Labour. It administers the laws of British Columbia affecting labour, and is empowered to collect information respecting industries, wages, employment, prices, labour organizations and other data pertaining to labour problems. Prominent among the Acts administered by the Department are: the Male Minimum Wage Act 1934; the Female Minimum Wage Act 1934; the Hours of Work Act 1934; these are administered by the Board of Industrial Relations, the Deputy Minister of Labour being Chairman of the Board. Other activities of the Department include the administration of: the Semi-monthly Payment of Wages Act; the Factories Act; and the operation of employment bureaus within the Province.

#### Section 4.—Canada and the International Labour Organization.\*

The International Labour Organization of the League of Nations was set up in 1919 in accordance with Part XIII of the Treaties of Peace, to promote the improvement of industrial conditions by legislative action and international agreement.

The Organization comprises: the International Labour Conference, which meets annually and is composed of four representatives of each Member State, two of whom are government delegates, while two represent employers and workers respectively; and the International Labour Office in Geneva, which functions as a secretariat of the annual conference and also collects and publishes information on subjects relating to industrial life and labour. The Office is under the control of a Governing Body, consisting of 32 persons, appointed by the International Labour Conference, of whom 16 represent governments, 8 represent employers and 8 represent workers. In addition to its control of the Labour Office, the Governing Body is charged with the preparation of the agenda of the annual conference.

Under the terms of the Peace Treaties, eight of the government seats on the Governing Body are held by the countries of "chief industrial importance". Canada was designated by the Council of the League of Nations in 1922 as one of these eight States of "chief industrial importance". Sixty-two countries are members of the International Labour Organization, including the United States and Russia, which became members during the past year. In January, 1935, the list of eight states was revised by the Governing Body in order to permit of the inclusion of the United States and Russia. Canada and Belgium were called on to surrender their permanent seats at this time but were accorded the status of Deputy Members until the Governing Body is reconstituted in 1937. The present President of the Trades and Labour Congress of Canada is one of the eight workers' representatives on the Governing Body.

The conclusions of the International Labour Conference are cast in the form of draft conventions or recommendations, addressed to the national governments which comprise the membership of the International Labour Organization. A

\*On this subject see also the 1921 Year Book, pp. 607-609; 1922-23 Year Book, pp. 704-707; 1924 Year Book, pp. 666-670; 1925 Year Book, pp. 676-678; 1926 Year Book, pp. 679-681; 1927-28 Year Book, pp. 735-737; 1929 Year Book, pp. 725-727; 1930 Year Book, pp. 710-712; 1931 Year Book, pp. 753-755; 1932 Year Book, pp. 633-634; and 1933 Year Book, pp. 750-752.

two-thirds majority of the Conference is required for the adoption of either a draft convention or recommendation. Under the Treaties of Peace, the Member States are bound to bring the draft conventions or recommendations before the authority or authorities within whose competence the subject matter lies, for the enactment of legislation or other action. Thus the findings of the Conference only become binding in the various countries concerned if and when action regarding them is taken by the latter.

The Dominion Department of Labour is entrusted with the duties arising out of the relations of Canada with the International Labour Organization. These have entailed much correspondence, not only with the International Labour Organization but also with the different Departments of the Dominion Government, with the provinces, and with employers' and workers' organizations. Replies have also been prepared in the Department of Labour to various questionnaires issued by the International Labour Office. Performance of these duties has necessitated a close study of the different technical questions which have figured on the agenda of the various conferences and at the meetings of the Governing Body. A bulletin entitled "Canada and the International Labour Conference" has been issued by the Department of Labour, furnishing information respecting the International Labour Organization. Comprehensive articles dealing with the proceedings of the annual sessions of the International Conference have been published from year to year in the *Labour Gazette*. These articles contain the text of the various draft conventions and recommendations of the Conference.

Eighteen sessions of the International Labour Conference have been held. Forty-four draft conventions and 43 recommendations have been adopted at these annual gatherings. The draft conventions and recommendations of the Conference have, among other subjects, related to the following: hours of labour, measures for the avoidance of unemployment, employment conditions of women and children, employment conditions of seamen, employment in agriculture, weekly rest, statistics of immigration and emigration, principles of factory inspection, inspection of emigrants on board ship, workmen's compensation for accidents and occupational diseases, social insurance, minimum wages, prevention of accidents to dockers, forced labour, and regulation of hours of work of salaried employees and of workers in coal mines.

Up to Dec. 31, 1934, 636 ratifications of these conventions had been registered with the League of Nations, of which 11 were conditional or with delayed application; 27 had been approved by the competent national authority and 90 had been recommended to the competent national authority for approval.

**Canadian Action on Draft Conventions and Recommendations.**—The action taken by the Dominion and the Provincial Governments on the draft conventions and recommendations of the International Labour Conference has been summarized in the articles on this subject published in previous Year Books and referred to in the footnote on p. 809.

### Section 5.—Organized Labour in Canada.

The Dominion Department of Labour publishes an annual report on labour organization; this sets out the various branches of unionism in existence, the principles on which they are founded, their chief activities, and statistics of the different groups comprised in the trade unions of the Dominion. Reference is also made in this annual report to the principal international labour organizations with which the organized workers of Canada are affiliated.

Trade unionism in Canada occupies a unique position by reason of the fact that a large number of organized workers in the Dominion are members of organizations whose headquarters are located in a foreign country, *viz.*, the United States. In years gone by Canadian workmen who sought a livelihood in the United States greatly outnumbered those who came from that country to Canada. As industry was further developed in the United States there arose there a number of unions of various crafts, and with these the Canadian workers soon became affiliated. With the development of industry in the Dominion, many of these Canadians returned to their native land, bringing with them the gospel of trade unionism and collective bargaining as a means of protecting their rights. In many instances these trade unionists become the nuclei of strong bodies of organized workers formed in Canadian cities.

The usual résumé of the origin and growth of the trades union movement in Canada has been omitted in this edition, owing to considerations of space. The interested reader is referred to pp. 712-714 of the 1930 edition of the Year Book and to "Labour Organization in Canada, 1931", published by the Dominion Department of Labour. This latter publication presents the history and present organization of trades unionism in the Dominion in a very comprehensive manner. The following paragraphs give a short sketch of the present organization of the five main groups into which Canadian labour organizations now fall.

**Trades and Labour Congress of Canada.**—Through the initiative of the Toronto Trades Assembly (now the Toronto District Trades and Labour Council), the first national labour organization, the Canadian Labour Union, was formed in Toronto in September, 1873. This organization held its second and third annual meetings in 1874 and 1875, but disappeared as a result of the serious depression of the later '70's. In 1883 the Trades and Labour Council of Toronto, feeling the necessity of the wage-earners of Canada having a medium through which to express their opinions, assumed the responsibility of calling another trades and labour congress, which met in Toronto on Dec. 26, with 47 delegates. On the summons of the Toronto Council, a second meeting, with 109 delegates, assembled on Sept. 14, 1886, the first occasion on which any labour body outside of the province of Ontario was represented. A permanent organization was effected at this meeting under the name of "Trades and Labour Congress of the Dominion of Canada". This was the title of the organization until 1895, when the title "Trades and Labour Congress of Canada" was adopted in preference to "Canadian Federation of Labour". Since 1886 conventions have been held annually, the 1934 meeting in Toronto being counted as the 50th. The Trades and Labour Congress is representative of international trade unionism in the Dominion, the bulk of its membership being drawn from the international organizations which have local branches in Canada. According to reports for 1934, the Congress received payment of per capita tax on the Canadian membership of 60 international bodies and also from two national organizations which had their entire membership in the Dominion; the combined membership was 103,424, comprised in 1,523 local branches.

**All-Canadian Congress of Labour.**—The All-Canadian Congress of Labour was organized Mar. 16, 1927, by labour bodies not eligible for membership in the old established Trades and Labour Congress of Canada. One of the promoters of the new body was the Canadian Federation of Labour, which was formed as a result of the expulsion from the Trades and Labour Congress of Canada of Knights of Labour assemblies and all other unions which were composed of members of



crafts over which existing international organizations claimed jurisdiction. With the formation of the All-Canadian Congress of Labour the Canadian Federation passed out of existence. At the close of 1933, the All-Canadian Congress of Labour had eleven central bodies in affiliation, with a combined membership of 51,998, as well as 39 directly chartered local unions with a membership of 3,120, making a total combined reported membership of 55,118.

**Membership of International Organizations in Canada.**—At the close of 1933 there were 78 international craft organizations having one or more local branch unions in Canada, the same as the number recorded in 1932. These bodies among them had 1,753 local branches in the Dominion with 140,801 members. The membership of the two industrial unions with branches in the Dominion was 26,918 comprised in 54 branches. Thus the total international trade union membership in Canada at the close of 1933 was 167,719 (Table 4). The international *craft* organizations alone represent about 49 p.c. of the total of all classes of workers in the Dominion organized under trade union auspices as shown in Table 3.

**Canadian Central Labour Bodies.**—There are in Canada 34 Canadian central labour bodies, 21 of which are in direct opposition to the international organizations. In some instances these Canadian central labour bodies have been formed by secessionists from international unions. The combined membership of the Canadian central labour organizations on Dec. 31, 1933, was 76,062, comprised in 748 local branches (Table 5).

**Membership of Independent Units.**—There are 42 independent local labour bodies in the Dominion, 41 of which had a membership of 15,545 at the end of 1933.

**Federation of Catholic Workers of Canada.**—During the period when the Knights of Labour operated in Quebec, there existed also four independent unions, one of labourers and three of leather and shoe workers. Up to 1902 these several bodies were represented at the annual conventions of the Trades and Labour Congress of Canada. In that year, in an effort to eliminate a duplication of unions and bring the independent bodies under the banner of the international organizations, the Trades Congress denied them further representation. The Knights of Labour assemblies grandually disappeared, but the independent unions continued to exist. Up to the time of the expulsion by the Trade Congress of those bodies which were outside the ranks of the international organizations, there was only one Catholic union, that composed of shoe workers in the city of Quebec, which had accepted the social doctrine of the Roman Catholic Church and admitted a chaplain (a member of the clergy), this course being adopted in 1901 following the adjustment of a dispute in the shoe industry in that city by the archbishop of the diocese. Some years later, a number of other national unions were formed in the province of Quebec, all of which accepted for their guidance the declarations of Pope Leo XIII, who on May 15, 1891, issued an encyclical on "The Condition of the Working Classes", the provisions of which were subsequently proclaimed by Pope Pius X as fundamental rules for workingmen's associations. In 1918, a conference of national unions was held in Quebec city, followed by other meetings in Three Rivers in 1919 and Chicoutimi in 1920; the delegates at the latter conference, numbering 225 from 120 unions, decided to establish a permanent central body to co-ordinate the work of the scattered units. Accordingly, at the 1921 conference held in Hull, at which approximately 200 delegates representing 89 unions were present, a constitution to govern the new body was approved. The name selected was "Federation



of Catholic Workers of Canada" and permanent officers were elected, the constitution and by-laws becoming effective on Jan. 1, 1922. From information at hand, there are 110 National Catholic unions with a combined membership of 26,894.

**One Big Union.**—Delegates from Western Canada to the Quebec convention of 1918, dissatisfied with the alleged reactionary policy of the Trades and Labour Congress of Canada, held a caucus at which it was decided to concentrate their energies towards having the Trades Congress legislate in accordance with their views. Some months later a meeting of delegates was called by the British Columbia Federation of Labour to assemble immediately following the annual convention of that body, which, for the first time in its history, met outside of the province under its jurisdiction, in Calgary. The conference assembled on Mar. 13, 1919, with 239 delegates present; the outcome of the meeting was the formation of an industrial organization, the "One Big Union". On June 11, 1919, a conference of the new body was held in Calgary to further the plans of the organization, which had a membership of 41,150 at the close of 1919. From the outset the O.B.U. met with much opposition from the old-established labour unions, represented by the Trades and Labour Congress of Canada, which was opposed to the substitution of industrial unionism for the existing system of craft unions. According to information supplied by the general secretary, the O.B.U., at the close of 1933, had 47 units under charter, one of which was located in the United States, as well as two central labour councils (bodies similar to trades and labour councils), the combined reported membership being 23,640.

**Total Reported Membership of Organized Labour in Canada.**—The numerical strength of organized labour in Canada at the close of 1933 was given by the Department of Labour as follows: international organizations, 1,807 local branches with an aggregate membership of 167,719; Canadian central labour bodies, 748 branches and 76,062 members; independent units, 42 with 15,545 members; National Catholic unions, 110 with 26,894 members; grand total, 2,707 local branches and 286,220 members. As compared with 1932, this represents a decrease of 18 branches but a gain of 2,644 members. Table 3 shows by years the membership of trade unions in Canada since 1911.

3.—Membership of Trade Unions in Canada, 1911-33.

| Year.     | Members. | Year.     | Members. | Year.     | Members. |
|-----------|----------|-----------|----------|-----------|----------|
| 1911..... | 133,132  | 1919..... | 378,047  | 1927..... | 290,282  |
| 1912..... | 160,120  | 1920..... | 373,842  | 1928..... | 300,602  |
| 1913..... | 175,799  | 1921..... | 313,320  | 1929..... | 319,476  |
| 1914..... | 166,163  | 1922..... | 276,621  | 1930..... | 322,449  |
| 1915..... | 143,343  | 1923..... | 278,092  | 1931..... | 310,544  |
| 1916..... | 160,407  | 1924..... | 260,643  | 1932..... | 283,576  |
| 1917..... | 204,630  | 1925..... | 271,064  | 1933..... | 286,220  |
| 1918..... | 248,887  | 1926..... | 274,064  |           |          |

**International Trade Unions Operating in Canada.**—Table 4 gives the names of the 78 international craft labour organizations and the two industrial names which now carry on operations in Canada, and shows: (1) the number of branches which were in existence in the Dominion at the close of 1933, and (2) the reported membership.

**4.—International Trade Unions Operating in Canada, showing Numbers of  
Branches and Members, December, 1933.**

| International Organization.                                                                                                                              | No. of<br>Branches<br>in Canada. | Reported<br>Members<br>in Canada. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------|
| American Federation of Labour.....                                                                                                                       | 6                                | 270                               |
| Asbestos Workers, International Association of Heat and Frost Insulators and...                                                                          | 4                                | 125                               |
| Bakery and Confectionery Workers' International Union of America.....                                                                                    | 6                                | 208                               |
| Barbers' International Union of America, Journeymen.....                                                                                                 | 25                               | 770                               |
| Bill Posters and Billers of America, International Alliance of.....                                                                                      | 2                                | 20                                |
| Blacksmiths, Drop Forgers and Helpers, International Brotherhood of.....                                                                                 | 19                               | 1,250                             |
| Boilermakers, Iron Shipbuilders and Helpers, International Brotherhood of.....                                                                           | 35                               | 2,018                             |
| Bookbinders, International Brotherhood of.....                                                                                                           | 11                               | 567                               |
| Boot and Shoe Workers' Union.....                                                                                                                        | 6                                | 1,842                             |
| Brewery, Flour, Cereal and Soft Drink Workers, International Union of the<br>United.....                                                                 | 13                               | 675                               |
| Bricklayers', Masons and Plasterers' International Union of America.....                                                                                 | 52                               | 1,159                             |
| Bridge, Structural and Ornamental Iron Workers, International Association of...                                                                          | 9                                | 84                                |
| Carpenters and Joiners of America, United Brotherhood of.....                                                                                            | 60                               | 5,916                             |
| Carvers' Association of America, International Wood.....                                                                                                 | 1                                | 16                                |
| Cigarmakers' International Union of America.....                                                                                                         | 4                                | 89                                |
| Clothing Workers of America, Amalgamated.....                                                                                                            | 15                               | 6,500                             |
| Commercial Telegraphers' Union of America.....                                                                                                           | 7                                | 1,501                             |
| Conductors, Order of Sleeping Car.....                                                                                                                   | 1                                | 18                                |
| Electrical Workers, International Brotherhood of.....                                                                                                    | 40                               | 2,108                             |
| Elevator Constructors, International Union of.....                                                                                                       | 7                                | 242                               |
| Engineers, International Union of Operating.....                                                                                                         | 23                               | 687                               |
| Firemen and Oilers, International Brotherhood of.....                                                                                                    | 36                               | 425                               |
| Fire Fighters, International Association of.....                                                                                                         | 18                               | 2,400                             |
| Fur Workers' Union, International.....                                                                                                                   | 4                                | 875                               |
| Garment Workers of America, United.....                                                                                                                  | 6                                | 750                               |
| Garment Workers' Union, International Ladies'.....                                                                                                       | 9                                | 1,500                             |
| Glass Bottle Blowers' Association of the United States and Canada.....                                                                                   | 4                                | 94                                |
| Glass Workers' Union, American Flint.....                                                                                                                | 3                                | 102                               |
| Granite Cutters' International Association of America.....                                                                                               | 3                                | 36                                |
| Hatters, Cap and Millinery Workers' International Union.....                                                                                             | 4                                | 875                               |
| Hod Carriers', Building and Common Labourers' Union of America, Inter-<br>national.....                                                                  | 3                                | 428                               |
| Hotel and Restaurant Employees' and Beverage Dispensers' International<br>Alliance.....                                                                  | 7                                | 410                               |
| Jewellery Workers' Union, International.....                                                                                                             | 2                                | 64                                |
| Lathers, International Union of Wood, Wire and Metal.....                                                                                                | 6                                | 74                                |
| Leather Workers' International Union, United.....                                                                                                        | 1                                | 36                                |
| Lithographers of America, Amalgamated.....                                                                                                               | 7                                | 408                               |
| Locomotive Engineers, Brotherhood of.....                                                                                                                | 99                               | 4,558                             |
| Locomotive Firemen and Enginemen, Brotherhood of.....                                                                                                    | 98                               | 3,923                             |
| Longshoremen's Association, International.....                                                                                                           | 9                                | 1,210                             |
| Machinists, International Association of.....                                                                                                            | 75                               | 5,920                             |
| Maintenance-of-Way Employees, Brotherhood of.....                                                                                                        | 197                              | 13,867                            |
| Marble, Stone and Slate Polishers, Rubbers, and Sawyers, Tile and Marble<br>Setters' Helpers and Terrazzo Workers' Helpers, International Association of | 2                                | 28                                |
| Metal Polishers' International Union.....                                                                                                                | 2                                | 32                                |
| Metal Workers' International Association, Sheet.....                                                                                                     | 12                               | 405                               |
| Mine Workers of America, United.....                                                                                                                     | 42                               | 10,950                            |
| Moulders' Union of North America, International.....                                                                                                     | 28                               | 1,388                             |
| Musicians, American Federation of.....                                                                                                                   | 34                               | 4,000                             |
| Painters, Decorators and Paperhangers of America, Brotherhood of.....                                                                                    | 28                               | 567                               |
| Papermakers, International Brotherhood of.....                                                                                                           | 28                               | 1,707                             |
| Pattern Makers' League of North America.....                                                                                                             | 11                               | 261                               |
| Paving Cutters' Union of the United States and Canada.....                                                                                               | 5                                | 100                               |
| Photo-Engravers' Union of North America, International.....                                                                                              | 5                                | 412                               |
| Plasterers' and Cement Finishers' International Association, Operative.....                                                                              | 15                               | 353                               |
| Plumbers, Gas and Steam Fitters, United Association of Journeymen.....                                                                                   | 36                               | 2,400                             |
| Printers', Die Stumpers' and Engravers' Union, International Plate.....                                                                                  | 1                                | 43                                |
| Printing Pressmen's and Assistants' Union, International.....                                                                                            | 19                               | 2,878                             |
| Pulp, Sulphite and Paper Mill Workers of the United States and Canada, Inter-<br>national Brotherhood of.....                                            | 21                               | 2,000                             |
| Quarry Workers' International Union of North America.....                                                                                                | 1                                | 5                                 |
| Railroad Signalmen of America, Brotherhood of.....                                                                                                       | 9                                | 215                               |
| Railroad Telegraphers, Order of.....                                                                                                                     | 13                               | 6,959                             |
| Railroad Trainmen, Brotherhood of.....                                                                                                                   | 90                               | 12,898                            |
| Railway Carmen of America, Brotherhood of.....                                                                                                           | 114                              | 9,691                             |
| Railway and Steamship Clerks, Freight Handlers, Express and Station<br>Employees, Brotherhood of.....                                                    | 64                               | 3,162                             |
| Railway Conductors, Order of.....                                                                                                                        | 67                               | 2,262                             |
| Railway, Bus and Coach Employees of America, Amalgamated Association of<br>Street and Electric.....                                                      | 24                               | 6,000                             |
| Retail Clerks' International Protective Association.....                                                                                                 | 1                                | 30                                |

**4.—International Trade Unions Operating in Canada, showing Numbers of Branches and Members, December, 1933—concluded.**

| International Organization.                                                                               | No. of Branches in Canada. | Reported Members in Canada. |
|-----------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------|
| Seamen's Union of America, International.....                                                             | 1                          | 500                         |
| Siderographers, International Association of.....                                                         | 1                          | 9                           |
| Stage Employees, International Alliance of Theatrical.....                                                | 38                         | 1,020                       |
| Stereotypers' and Electrotypers' Union, International.....                                                | 10                         | 320                         |
| Stonecutters' Association of North America, Journeymen.....                                               | 17                         | 600                         |
| Switchmen's Union of North America.....                                                                   | 7                          | 54                          |
| Tailors' Union of America, Journeymen.....                                                                | 5                          | 117                         |
| Teamsters, Chauffeurs, Stablemen and Helpers, International Brotherhood of.....                           | 13                         | 810                         |
| Textile Workers of America, United (Including American Federation of Full Fashioned Hosiery Workers)..... | 2                          | 100                         |
| Train Dispatchers' Association, American.....                                                             | -                          | 15                          |
| Typographical Union, International.....                                                                   | 48                         | 4,441                       |
| Upholsterers' International Union of America.....                                                         | 2                          | 49                          |
| <b>Totals.....</b>                                                                                        | <b>1,753</b>               | <b>140,801</b>              |
| One Big Union.....                                                                                        | 46                         | 23,300                      |
| Industrial Workers of the World.....                                                                      | 8                          | 3,618                       |
| <b>Grand Totals.....</b>                                                                                  | <b>1,807</b>               | <b>167,719</b>              |

Table 5 gives the number of branches and the members of Canadian central labour bodies operating in Canada at the close of 1933.

**5.—Canadian Central Labour Bodies Operating in Canada, showing Numbers of Branches and Members, December, 1933.**

| Organization.                                                                                               | No. of Branches or Affiliations. | Members Reported. |
|-------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------|
| Trades and Labour Congress of Canada.....                                                                   | 49                               | 5,328             |
| All-Canadian Congress of Labour.....                                                                        | 39                               | 3,120             |
| Workers' Unity League of Canada.....                                                                        | 12                               | 2,147             |
| Amalgamated Building Workers of Canada.....                                                                 | 31                               | 8,383             |
| Amalgamated Civil Servants of Canada.....                                                                   | 42                               | 4,172             |
| Amalgamated Mine Workers of Nova Scotia.....                                                                | 19                               | 5,363             |
| Brotherhood of Express Employees.....                                                                       | 27                               | 1,324             |
| Canadian Association of Railway Enginemen, Conductors, Trainmen, Yardmen, Telegraphers and Dispatchers..... | 71                               | 2,857             |
| Canadian Amalgamated Association of Seamen.....                                                             | 1                                | 1,200             |
| Canadian Association of Stationary Engineers.....                                                           | 15                               | 584               |
| Canadian Brotherhood of Railway Employees.....                                                              | 171                              | 13,392            |
| Canadian Bushmen's Union.....                                                                               | -                                | 500               |
| Canadian Carpet Weavers' Beneficial Association.....                                                        | 5                                | 140               |
| Canadian Electrical Trades Union.....                                                                       | 6                                | 550               |
| Canadian Printers' Union.....                                                                               | -                                | 122               |
| Civil Service Association of Alberta.....                                                                   | 10                               | 850               |
| Cleaners, Dyers and Laundry Workers' Industrial Union.....                                                  | 2                                | 396               |
| Dominion Railway Mail Clerks' Federation.....                                                               | 16                               | 902               |
| Electrical Communication Workers of Canada.....                                                             | 7                                | 200               |
| Federated Association of Letter Carriers.....                                                               | 53                               | 1,301             |
| Fishermen and Cannery Workers' Industrial Union of Canada.....                                              | -                                | 600               |
| Food Workers' Industrial Union of Canada.....                                                               | 4                                | 1,070             |
| Furniture and Wood Workers' Industrial Union of Canada.....                                                 | 10                               | 2,010             |
| Industrial Union of Needle Trades Workers of Canada.....                                                    | 5                                | 3,250             |
| Lumber Workers' Industrial Union of Canada.....                                                             | 33                               | 7,500             |
| Mine Workers' Union of Canada.....                                                                          | 14                               | 3,000             |
| National Association of Marine Engineers of Canada.....                                                     | 15                               | 800               |
| Native Brotherhood of British Columbia.....                                                                 | 11                               | 500               |
| Provincial Federation of Ontario Fire Fighters.....                                                         | 26                               | 726               |
| Railway Workers' Industrial League of Canada.....                                                           | 16                               | 780               |
| Saskatchewan Brotherhood of Steam and Operating Engineers.....                                              | 1                                | 13                |
| Shoe and Leather Workers' Industrial Union.....                                                             | 3                                | 600               |
| United Postal Employees of Canada.....                                                                      | 33                               | 1,472             |
| Vancouver and District Waterfront Workers' Association.....                                                 | 1                                | 900               |
| <b>Totals.....</b>                                                                                          | <b>748</b>                       | <b>76,062</b>     |

## Section 6.—Fatal Industrial Accidents.

Statistics of fatal industrial accidents have been compiled by the Dominion Department of Labour since 1903, the data being obtained from provincial Workmen's Compensation Boards, the Board of Railway Commissioners for Canada and various other governmental authorities, from departmental correspondents and from press clippings. Table 6 shows the number of fatal industrial accidents reported to the Department during each year from 1930 to 1934 inclusive. The number of fatalities in each of the different industries is also shown as a percentage of the total number. Preliminary figures show 974 fatal industrial accidents in 1934.

**6.—Fatal Industrial Accidents in Canada, by Industries, 1930-34.**

| Industry.                                       | Numbers of Fatal Accidents. |              |            |            |                    | Percentages of Fatal Accidents. |              |              |              |                    |
|-------------------------------------------------|-----------------------------|--------------|------------|------------|--------------------|---------------------------------|--------------|--------------|--------------|--------------------|
|                                                 | 1930.                       | 1931.        | 1932.      | 1933.      | 1934. <sup>1</sup> | 1930.                           | 1931.        | 1932.        | 1933.        | 1934. <sup>1</sup> |
| Agriculture.....                                | 122                         | 163          | 154        | 111        | 150                | 7.5                             | 13.7         | 15.8         | 13.7         | 15.4               |
| Logging.....                                    | 175                         | 76           | 73         | 91         | 113                | 10.4                            | 6.4          | 7.5          | 11.3         | 11.6               |
| Fishing and trapping.....                       | 36                          | 40           | 30         | 36         | 45                 | 2.2                             | 3.4          | 3.1          | 4.5          | 4.6                |
| Mining, non-ferrous smelting and quarrying..... | 258                         | 158          | 123        | 112        | 142                | 16.0                            | 13.3         | 12.6         | 13.9         | 14.6               |
| Manufacturing.....                              | 196                         | 142          | 116        | 103        | 98                 | 11.8                            | 11.9         | 11.9         | 12.7         | 10.1               |
| Construction.....                               | 324                         | 217          | 124        | 65         | 114                | 19.4                            | 18.2         | 12.7         | 8.0          | 11.7               |
| Electric light and power.....                   | 42                          | 44           | 21         | 15         | 20                 | 2.5                             | 3.7          | 2.2          | 1.9          | 2.1                |
| Transportation and public utilities....         | 327                         | 205          | 196        | 161        | 162                | 19.7                            | 17.3         | 20.1         | 19.9         | 16.6               |
| Trade.....                                      | 58                          | 43           | 51         | 48         | 48                 | 3.4                             | 3.6          | 5.3          | 5.9          | 4.9                |
| Service.....                                    | 117                         | 97           | 83         | 63         | 82                 | 7.1                             | 8.2          | 8.5          | 7.8          | 8.4                |
| Miscellaneous.....                              | —                           | 3            | 3          | 3          | —                  | —                               | 0.3          | 0.3          | 0.4          | —                  |
| <b>Totals.....</b>                              | <b>1,655</b>                | <b>1,188</b> | <b>974</b> | <b>808</b> | <b>974</b>         | <b>100.0</b>                    | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b>       |

<sup>1</sup> Figures subject to revision.

**Causes of Fatal Accidents.**—The classification of fatal accidents in 1934 by causes shows that the largest number, 282, came under the category "by moving trains, vehicles, etc.". This includes all accidents due to cars or engines, including mine and quarry cars, and to automobiles and other power vehicles and horse-drawn vehicles, as well as accidents caused by moving implements, by moving watercraft and by aircraft. Next in order as a cause came "falls of persons", 166 in number, including those who fell from some elevation and those who fell into pits, shafts, holds of vessels, harbours, rivers, etc. "Dangerous substances" including electric current, explosives, hot and inflammable substances, gas fumes, boiler explosions, etc., caused 128 fatalities. Fatalities numbering 142 were caused by falling objects. Animals caused 42 fatalities, including 23 caused by horses. Sixteen fatalities were caused by working machines, 20 by prime movers, 30 by striking against or being struck by objects, 30 by handling of heavy or sharp objects, 20 by hoisting apparatus, 2 by tools, 4 by infection, 35 due to industrial diseases, 6 by shooting and violence, 17 by cave-ins, and 21 by lightning, frost, storms and sunstroke.

Numbers of industrial accidents, fatal and non-fatal, dealt with by the various provincial Workmen's Compensation Boards are included in the following section on Workmen's Compensation in Canada.



## Section 7.—Workmen's Compensation in Canada.

An account of the development of workmen's compensation legislation in Canada from employers' liability legislation was given at pp. 744-746 of the 1927-28 Year Book, while a summary of the 1932 legislation with regard to workmen's compensation appears in the general sketch of labour legislation in Canada at pp. 844-849 of the current edition. Details regarding the operation of the various Workmen's Compensation Boards of the provinces are given below.

**Operations of the Workmen's Compensation Boards.—Nova Scotia.**—The Workmen's Compensation Act was passed in 1915 but only became effective on Jan. 1, 1917. During the eighteen years between that date and Dec. 31, 1934, 128,202 accidents were reported to the Board, of which 112,904 were compensated as per Table 7. Prior to Jan. 1, 1920, medical aid was only furnished in special cases.

### 7.—Compensation Paid and Accidents Compensated by the Nova Scotia Workmen's Compensation Board, 1917-34.

(Estimates for outstanding claims not included.)

| Year.     | Compensation.        | Medical Aid. | Total.                 | Accidents Compensated. |
|-----------|----------------------|--------------|------------------------|------------------------|
|           | \$                   | \$           | \$                     | No.                    |
| 1917..... | 503,258              | 202          | 503,460                | 4,836                  |
| 1918..... | 826,740              | —            | 826,740                | 4,931                  |
| 1919..... | 629,156              | 491          | 629,647                | 4,499                  |
| 1920..... | 1,135,235            | 36,561       | 1,171,796              | 7,116                  |
| 1921..... | 705,752              | 36,296       | 742,048                | 4,903                  |
| 1922..... | 576,906              | 40,147       | 617,053                | 5,022                  |
| 1923..... | 808,560              | 56,484       | 865,044                | 6,248                  |
| 1924..... | 874,478              | 63,974       | 938,452                | 5,786                  |
| 1925..... | 638,787              | 68,740       | 707,527                | 5,340                  |
| 1926..... | 875,940              | 84,122       | 960,062                | 6,652                  |
| 1927..... | 1,052,303            | 88,978       | 1,141,281              | 6,871                  |
| 1928..... | 1,076,074            | 95,069       | 1,171,143              | 7,666                  |
| 1929..... | 936,210              | 117,632      | 1,053,842              | 9,479                  |
| 1930..... | 949,828 <sup>1</sup> | 129,399      | 1,079,227 <sup>1</sup> | 8,821                  |
| 1931..... | 951,256              | 106,578      | 1,057,834              | 6,357                  |
| 1932..... | 688,448              | 84,281       | 772,729                | 5,024                  |
| 1933..... | 570,701              | 69,575       | 640,276                | 5,168                  |
| 1934..... | 794,717              | 113,860      | 908,577                | 7,735                  |

<sup>1</sup>Revised since the publication of the 1933 Year Book.

**New Brunswick.**—The Workmen's Compensation Act of New Brunswick was passed in 1918. It extends to a wide range of industries, and is administered by a Board of three persons, levying assessments and paying benefits. For the sums paid out annually from 1920 as compensation and for medical aid see Table 8.

### 8.—Compensation Paid by the New Brunswick Workmen's Compensation Board, 1920-33.

| Year.     | Weekly Compensation. | Permanent Partial Disability. | Fatal.            |                       | Medical Aid.                      |                               | Permanent Total Disability Reserve. |
|-----------|----------------------|-------------------------------|-------------------|-----------------------|-----------------------------------|-------------------------------|-------------------------------------|
|           |                      |                               | Funeral Expenses. | Reserve for Pensions. | Doctors' Fees and Transportation. | Hospital and Nursing Service. |                                     |
|           | \$                   | \$                            | \$                | \$                    | \$                                | \$                            | \$                                  |
| 1920..... | 195,063              | 73,440                        | 1,799             | 128,158               | 39,324                            | 15,606                        | -                                   |
| 1921..... | 159,096              | 103,054                       | 3,661             | 189,945               | 56,631                            | 22,378                        | -                                   |
| 1922..... | 162,988              | 84,316                        | 2,906             | 124,088               | 76,046                            | 31,568                        | -                                   |
| 1923..... | 204,353              | 90,349                        | 3,573             | 130,339               | 83,530                            | 35,935                        | -                                   |
| 1924..... | 203,946              | 113,555                       | 3,425             | 162,740               | 87,261                            | 41,528                        | -                                   |
| 1925..... | 186,946              | 90,044                        | 2,784             | 144,285               | 84,897                            | 38,920                        | -                                   |
| 1926..... | 185,624              | 76,780                        | 2,033             | 93,838                | 73,149                            | 40,293                        | -                                   |
| 1927..... | 211,692              | 103,430                       | 2,427             | 88,299                | 79,481                            | 43,994                        | -                                   |
| 1928..... | 217,890              | 116,208                       | 3,141             | 127,490               | 80,212                            | 51,984                        | -                                   |
| 1929..... | 243,770              | 99,266                        | 3,388             | 137,667               | 85,238                            | 59,217                        | -                                   |
| 1930..... | 199,313              | 92,344                        | 2,682             | 116,055               | 77,722                            | 54,172                        | 6,237                               |
| 1931..... | 181,676              | 73,774                        | 1,581             | 72,481                | 79,021                            | 60,183                        | -                                   |
| 1932..... | 137,762              | 71,527                        | 1,403             | 33,280                | 68,712                            | 46,907                        | -                                   |
| 1933..... | 145,063              | 103,742                       | 2,126             | 63,649                | 88,304                            | 63,572                        | 20,521                              |

*Quebec.*—The Quebec Workmen's Compensation Commission was established in 1928 by authority of cc. 79 and 80 of the Statutes of that year. The Act was brought into force by proclamation on Mar. 22, 1928, operations of the Commission commencing as of Sept. 1, 1928. Under this Act, the Quebec Commission did not insure employers against their liability. On April 4, 1931, a new Act was enacted by the Quebec Legislature (21 Geo. V, c. 100), effective Sept. 1, 1931, providing for state insurance, practically along the same lines as the Workmen's Compensation Act of Ontario. This new Act was amended by 23 Geo. V, c. 98, enacted on Apr. 13, 1933. Table 9 shows the operations of the Quebec Commission from Sept. 1, 1928, to Dec. 31, 1933.

### 9.—Compensation Paid and Accidents Compensated by the Quebec Workmen's Compensation Commission, 1928-33.

| Year.                        | Claims. | Accidents Compensated. | Accident Cost. |
|------------------------------|---------|------------------------|----------------|
|                              | No.     | No.                    | \$             |
| 1928 (4 months).....         | 8,266   | 2,625                  | 209,764        |
| 1929.....                    | 25,610  | 21,377                 | 3,229,554      |
| 1930.....                    | 20,900  | 19,850                 | 3,792,346      |
| 1931 (8 months) Old Act..... | 12,534  | 13,204                 | 2,758,785      |
| 1931 (4 months) New Act..... | 12,734  | 12,717                 | 1,237,738      |
| 1932.....                    | 34,414  | 30,643                 | 3,048,055      |
| 1933.....                    | 30,462  | 26,723                 | 2,237,504      |

*Ontario.*—Under the system operated by the Ontario Workmen's Compensation Board in Schedule 1, where the liability is collective, 24 classes of industries pay various percentages of their pay rolls annually to the Board and escape individual civil liability for accidents and certain specified industrial diseases. The percentage of pay roll collected by the Board is graded according to the degree of hazard in the occupation and ranged in 1934 from 10 cents per \$100 of pay roll in blue-printing to \$13.50 per \$100 in transportation of freight by aeroplane. The average for all classes was \$1.16 per \$100 of pay rolls which amounted to \$335,257,000. Certain

other industries under Schedule 2, including municipal undertakings, railways, car shops, telegraphs, telephones, etc., are made individually liable to pay the rates of compensation fixed under the Act. Employees of the Dominion or of the province, killed or injured in the discharge of their duty, are by special legislation placed on the same footing as those of private employers of the second class.

Statistics of the benefits awarded and the accidents to workers reported during the first 20 years of the operation of the Act appear in Table 10; 49,302 accidents were paid for during the year 1934 including: 190 cases of death, 14 of permanent total disability, 1,705 of permanent partial disability, 23,238 of temporary disability and 24,155 in which medical aid only was provided. These latter are all under Schedule 1, as medical aid in Schedule 2 cases and Crown cases is furnished directly by the employer.

**10.—Benefits Awarded and Accidents Reported by the Ontario Workmen's Compensation Board, 1915-34.**

| Year.     | Benefits Awarded. |                     |                                          |                    | Accidents Reported. |                |        |        |
|-----------|-------------------|---------------------|------------------------------------------|--------------------|---------------------|----------------|--------|--------|
|           | Schedule 1.       |                     | Schedule 2<br>and Crown<br>Compensation. | Total<br>Benefits. | Schedule<br>1.      | Schedule<br>2. | Crown. | Total. |
|           | Compensation.     | Medical<br>Aid.     |                                          |                    |                     |                |        |        |
|           | \$                | \$                  | \$                                       | \$                 | No.                 | No.            | No.    | No.    |
| 1915..... | 692,389           | 1                   | 200,932                                  | 893,321            | 13,878              | 3,144          | 11     | 17,033 |
| 1916..... | 1,553,653         | 1                   | 451,710                                  | 2,005,363          | 21,269              | 4,806          | 17     | 26,092 |
| 1917..... | 2,286,955         | 83,514 <sup>2</sup> | 623,556                                  | 2,994,025          | 30,701              | 5,813          | 18     | 36,532 |
| 1918..... | 2,751,137         | 369,346             | 763,511                                  | 3,883,995          | 40,662              | 7,113          | 73     | 47,848 |
| 1919..... | 2,808,639         | 386,299             | 997,923                                  | 4,192,860          | 36,236              | 7,918          | 106    | 44,260 |
| 1920..... | 5,113,150         | 703,706             | 1,963,390                                | 7,780,245          | 46,177              | 7,222          | 1,452  | 54,851 |
| 1921..... | 3,858,017         | 662,794             | 1,668,452                                | 6,189,264          | 36,272              | 7,666          | 1,253  | 45,191 |
| 1922..... | 3,417,102         | 692,820             | 1,582,975                                | 5,692,897          | 42,139              | 7,124          | 1,148  | 50,411 |
| 1923..... | 4,036,170         | 788,906             | 1,348,786                                | 6,173,862          | 51,655              | 6,080          | 3,374  | 61,109 |
| 1924..... | 4,052,288         | 835,956             | 1,234,576                                | 6,122,820          | 49,558              | 4,916          | 4,201  | 58,675 |
| 1925..... | 3,635,530         | 875,836             | 1,054,077                                | 5,565,443          | 50,883              | 5,079          | 4,050  | 60,012 |
| 1926..... | 3,664,040         | 988,487             | 1,168,825                                | 5,821,352          | 57,032              | 4,942          | 3,942  | 65,916 |
| 1927..... | 3,930,418         | 1,062,860           | 1,091,378                                | 6,084,655          | 62,063              | 5,412          | 4,504  | 71,979 |
| 1928..... | 4,565,689         | 1,166,508           | 1,335,751                                | 7,067,948          | 69,011              | 5,815          | 4,572  | 79,398 |
| 1929..... | 5,346,621         | 1,385,525           | 1,280,012                                | 8,012,158          | 76,029              | 6,008          | 5,066  | 87,103 |
| 1930..... | 4,942,756         | 1,336,046           | 1,144,216                                | 7,423,018          | 61,490              | 4,486          | 3,291  | 69,267 |
| 1931..... | 3,917,045         | 1,060,763           | 1,043,584                                | 6,021,392          | 46,069              | 3,348          | 3,477  | 52,894 |
| 1932..... | 3,202,639         | 817,240             | 1,105,741                                | 5,125,621          | 35,264              | 2,474          | 3,732  | 41,470 |
| 1933..... | 2,298,788         | 667,582             | 732,699                                  | 3,699,069          | 33,227              | 1,890          | 2,925  | 38,042 |
| 1934..... | 2,745,239         | 841,738             | 912,730                                  | 4,499,707          | 44,853              | 2,244          | 7,628  | 54,730 |

<sup>1</sup> No provision for medical aid.

<sup>2</sup> Half year only.

*Manitoba.*—Under the Workmen's Compensation Act, effective Mar. 1, 1917, Part 1 of the Act, dealing with workmen in hazardous occupations, is administered by the Workmen's Compensation Board, which charges insurance rates according to the hazard of the industry, the sums received by the workman being in lieu of the rights of action previously existing. The province, the city of Winnipeg, and certain corporations operating public utilities are permitted by the law to practise self-insurance.

From the date of the coming into force of the Act to Dec. 31, 1933, the Board dealt with 89,957 compensable accidents and paid out \$12,137,105 for compensation and medical aid. Of the accidents in 1933, 2,655 involved medical aid costs only, 2,680 involved temporary and 160 permanent disability, while 10 resulted in death (Table 11).

### 11.—Compensation Paid and Accidents Compensated by the Manitoba Workmen's Compensation Board, 1917-33.

| Year.     | Compensation. | Medical Aid. | Total     | Accidents Compensated. |
|-----------|---------------|--------------|-----------|------------------------|
|           | \$            | \$           | \$        | No.                    |
| 1917..... | 289,870       | 23,002       | 312,872   | 1,323                  |
| 1918..... | 304,135       | 35,121       | 339,256   | 1,731                  |
| 1919..... | 285,772       | 40,748       | 326,520   | 1,805                  |
| 1920..... | 389,710       | 78,566       | 468,276   | 2,509                  |
| 1921..... | 527,102       | 114,118      | 641,210   | 2,688                  |
| 1922..... | 585,292       | 156,734      | 742,026   | 4,977                  |
| 1923..... | 624,581       | 161,805      | 786,386   | 4,933                  |
| 1924..... | 476,722       | 155,166      | 631,888   | 4,972                  |
| 1925..... | 538,781       | 178,814      | 717,595   | 5,404                  |
| 1926..... | 599,144       | 190,023      | 789,167   | 7,046                  |
| 1927..... | 605,957       | 208,815      | 814,772   | 7,066                  |
| 1928..... | 812,328       | 250,823      | 1,063,151 | 8,873                  |
| 1929..... | 893,991       | 259,830      | 1,153,821 | 10,449                 |
| 1930..... | 892,636       | 223,795      | 1,216,431 | 8,310                  |
| 1931..... | 608,596       | 159,291      | 767,887   | 6,671                  |
| 1932..... | 620,171       | 159,107      | 779,278   | 5,695                  |
| 1933..... | 446,943       | 139,626      | 586,569   | 5,505                  |

*Saskatchewan.*—The Workmen's Compensation (Accident Fund) Act became fully effective July 1, 1930, and covers practically all employees in the province except railway employees engaged in the running trades, casual workers, farm and ranch labourers, domestic and menial servants, janitors, retail store employees, and persons who cannot be classed as workmen.

The Act is administered by a Board of three and imposes compulsory collective liability on the employers covered. The schedule of benefits is similar to that provided by other compensation Acts. Table 12 shows the number of accidents and benefits paid to the end of 1933.

### 12.—Compensation Paid and Accidents Compensated by the Saskatchewan Workmen's Compensation Board, 1930-33.

| Year.                   | Compensation. | Medical Aid. | Total.  | Accidents Compensated. |
|-------------------------|---------------|--------------|---------|------------------------|
|                         | \$            | \$           | \$      | No.                    |
| 1930 <sup>1</sup> ..... | 131,338       | 28,434       | 159,772 | 2,639                  |
| 1931.....               | 308,662       | 100,748      | 409,410 | 3,969                  |
| 1932.....               | 255,933       | 73,398       | 329,331 | 2,844                  |
| 1933.....               | 224,738       | 58,099       | 282,838 | 2,389                  |

<sup>1</sup> Six months.

*Alberta.*—The Workmen's Compensation Act of 1918 became effective Aug. 1, 1918, as regards mining, and Jan. 1, 1919, in respect of almost all industries except agriculture, railroading and the operation of retail stores and offices. Railroading (except for the running trades) was brought within the scope of the Act in 1910, and a further amendment in 1928 left only conductors and trainmen exempt from the operations of the Act.

Table 13 shows the operations of the Board for the calendar years 1921 to 1933. Of the 8,160 accidents reported in 1933, 21 were fatal and 57 resulted in some permanent injury. The amounts shown below do not include sums transferred to the pension fund, which had assets amounting to \$2,842,089 on Dec. 31, 1933, nor do they include administration expenses nor sums set aside to cover estimated liabilities.



**13.—Compensation Paid and Accidents Compensated by the Alberta Workmen's Compensation Board, 1921-33.**

| Year.     | Compensation. | Medical Aid. | Total.  | Accidents Reported. | Accidents Compensated. |
|-----------|---------------|--------------|---------|---------------------|------------------------|
|           | \$            | \$           | \$      | No.                 | No.                    |
| 1921..... | 253,669       | 113,433      | 367,102 | 7,069               | 3,566                  |
| 1922..... | 265,326       | 134,252      | 399,578 | 7,518               | 3,314                  |
| 1923..... | 323,369       | 161,732      | 485,101 | 9,160               | 4,268                  |
| 1924..... | 241,090       | 127,397      | 368,487 | 7,383               | 3,627                  |
| 1925..... | 312,990       | 154,870      | 467,860 | 8,355               | 4,099                  |
| 1926..... | 298,404       | 124,138      | 422,542 | 8,930               | 4,629                  |
| 1927..... | 371,787       | 161,537      | 533,324 | 10,149              | 5,547                  |
| 1928..... | 456,526       | 207,602      | 664,128 | 13,400              | 6,636                  |
| 1929..... | 507,438       | 265,636      | 773,074 | 14,899              | 7,138                  |
| 1930..... | 498,015       | 264,780      | 762,795 | 12,607              | 6,091                  |
| 1931..... | 452,643       | 216,212      | 668,855 | 10,049              | 4,878                  |
| 1932..... | 407,284       | 203,745      | 611,029 | 8,974               | 4,607                  |
| 1933..... | 291,406       | 143,675      | 435,081 | 8,160               | 3,398                  |

*British Columbia.*—The Workmen's Compensation Act, effective Jan. 1, 1917, provides compulsory accident insurance in almost every industrial occupation carried on in the province, protecting in 1933 approximately 120,000 employers with a pay roll of almost \$110,000,000. Insurance rates levied against employers are graded according to the hazard of the industry. All employers under the Act are required in addition to deduct one cent per day or part thereof from the wages of employees and to remit this money to the Board to the credit of the medical aid fund, which provides all necessary medical and surgical and hospital expenses for injured employees. For figures see Table 14.

**14.—Compensation Paid and Accidents Compensated by the British Columbia Workmen's Compensation Board, 1917-33.**

| Year.     | Compensation. | Medical Aid. | Total.    | Claims (gross). |
|-----------|---------------|--------------|-----------|-----------------|
|           | \$            | \$           | \$        | No.             |
| 1917..... | 603,274       | 62,668       | 665,942   | 13,685          |
| 1918..... | 1,224,039     | 268,985      | 1,493,024 | 22,498          |
| 1919..... | 1,394,696     | 289,108      | 1,683,804 | 18,185          |
| 1920..... | 1,709,759     | 397,451      | 2,107,210 | 20,905          |
| 1921..... | 1,771,126     | 431,748      | 2,202,874 | 16,883          |
| 1922..... | 1,767,260     | 457,196      | 2,224,456 | 19,647          |
| 1923..... | 2,157,918     | 514,762      | 2,672,680 | 24,184          |
| 1924..... | 2,309,007     | 602,733      | 2,911,740 | 25,566          |
| 1925..... | 2,419,372     | 618,942      | 3,038,314 | 27,563          |
| 1926..... | 2,481,456     | 678,231      | 3,159,687 | 30,365          |
| 1927..... | 2,654,200     | 643,594      | 3,297,794 | 30,066          |
| 1928..... | 2,898,021     | 688,446      | 3,586,467 | 32,793          |
| 1929..... | 3,588,626     | 752,623      | 4,341,249 | 36,750          |
| 1930..... | 3,403,743     | 773,397      | 4,177,140 | 33,285          |
| 1931..... | 2,572,254     | 568,289      | 3,140,543 | 25,877          |
| 1932..... | 1,860,021     | 447,423      | 2,307,445 | 19,011          |
| 1933..... | 1,501,700     | 368,482      | 1,870,183 | 18,274          |

### Section 8.—Strikes and Lockouts.

Statistics of strikes and lockouts in Canada have been collected by the Dominion Department of Labour since its establishment in 1900. Table 15 shows the numbers of disputes, of employees involved in disputes, and the time loss in working days for each year from 1911 to 1934 and the totals for the period beginning 1901. The items in the columns headed "time loss in working days" in the tables following are calculated by multiplying the number of persons directly involved in strikes and lockouts by the number of working days they are so affected during the time the disputes are in existence. Tables 16 and 17 give detailed analyses, by provinces and by industries, for 1933 and 1934.

Summary tables of the figures with details as to strikes and lockouts during 1934 will be found in the *Labour Gazette* for February, 1935, pp. 105-129.

**Industrial Disputes in Recent Years.**—During 1933 and 1934 there were increases in the number of disputes, in the number of workers involved and also in the time loss as compared with any year during the period 1926 to 1932, when the figures were relatively low, largely because there were then no coal-mining disputes involving large numbers of workers for long periods. In the last two years there was a considerable increase in the number and importance of disputes in industries other than coal mining, including important strikes in clothing manufacturing, in logging, sawmilling and woodworking. The number of disputes in 1934 was 191 as compared with 125 in 1933, while the number of workers involved was 45,800 as compared with 26,558 in 1933, the time loss being 574,519 man working days as compared with 317,547 in 1933. Table 15 includes figures regarding coal mining and industries other than coal mining.

#### 15.—Strikes and Lockouts in Canada, calendar years 1911-34.

NOTE.—For the years 1901-10, see the 1933 Year Book, p. 763.

| Year. | Coal Mining.                                 |                             |                            | Industries other than Coal Mining.           |                             |                            | All Industries.               |                        |                             |                            |
|-------|----------------------------------------------|-----------------------------|----------------------------|----------------------------------------------|-----------------------------|----------------------------|-------------------------------|------------------------|-----------------------------|----------------------------|
|       | Number of Disputes in Existence during year. | Number of Workers Involved. | Time Loss in Working Days. | Number of Disputes in Existence during year. | Number of Workers Involved. | Time Loss in Working Days. | Numbers of Disputes—          |                        | Number of Workers Involved. | Time Loss in Working Days. |
|       |                                              |                             |                            |                                              |                             |                            | In Existence during the year. | Beginning in the year. |                             |                            |
| 1911  | 6                                            | 9,890                       | 1,513,320                  | 94                                           | 19,395                      | 307,764                    | 100                           | 99                     | 29,285                      | 1,821,084                  |
| 1912  | 2                                            | 2,243                       | 107,240                    | 179                                          | 40,617                      | 1,028,546                  | 181                           | 179                    | 42,860                      | 1,135,786                  |
| 1913  | 4                                            | 4,837                       | 562,025                    | 148                                          | 35,682                      | 474,229                    | 152                           | 143                    | 40,519                      | 1,036,254                  |
| 1914  | 3                                            | 2,500                       | 280,800                    | 60                                           | 7,217                       | 210,050                    | 63                            | 58                     | 9,717                       | 490,850                    |
| 1915  | 9                                            | 2,753                       | 11,907                     | 54                                           | 8,642                       | 83,135                     | 63                            | 62                     | 11,395                      | 95,042                     |
| 1916  | 8                                            | 11,270                      | 72,387                     | 112                                          | 15,268                      | 164,427                    | 120                           | 118                    | 26,538                      | 236,814                    |
| 1917  | 21                                           | 17,379                      | 584,890                    | 139                                          | 32,876                      | 538,625                    | 160                           | 158                    | 50,255                      | 1,123,515                  |
| 1918  | 46                                           | 22,920                      | 130,696                    | 184                                          | 56,823                      | 517,246                    | 230                           | 228                    | 79,743                      | 647,942                    |
| 1919  | 20                                           | 10,130                      | 383,659                    | 316                                          | 138,785                     | 3,017,283                  | 336                           | 332                    | 148,915                     | 3,400,942                  |
| 1920  | 35                                           | 12,128                      | 99,920                     | 287                                          | 48,199                      | 699,604                    | 322                           | 310                    | 60,327                      | 799,524                    |

## 15.—Strikes and Lockouts in Canada, calendar years 1911-34—concluded.

| Year.               | Coal Mining.                                 |                             |                            | Industries other than Coal Mining.           |                             |                            | All Industries.               |                        |                             |                            |
|---------------------|----------------------------------------------|-----------------------------|----------------------------|----------------------------------------------|-----------------------------|----------------------------|-------------------------------|------------------------|-----------------------------|----------------------------|
|                     | Number of Disputes in Existence during year. | Number of Workers Involved. | Time Loss in Working Days. | Number of Disputes in Existence during year. | Number of Workers Involved. | Time Loss in Working Days. | Numbers of Disputes—          |                        | Number of Workers Involved. | Time Loss in Working Days. |
|                     |                                              |                             |                            |                                              |                             |                            | In Existence during the year. | Beginning in the year. |                             |                            |
| 1921                | 10                                           | 1,456                       | 31,318                     | 158                                          | 26,801                      | 1,017,596                  | 168                           | 159                    | 28,257                      | 1,048,914                  |
| 1922                | 21                                           | 26,475                      | 798,548                    | 83                                           | 17,300                      | 730,113                    | 104                           | 89                     | 43,775                      | 1,528,661                  |
| 1923                | 23                                           | 20,814                      | 299,539                    | 63                                           | 13,447                      | 372,211                    | 86                            | 77                     | 34,261                      | 671,750                    |
| 1924                | 15                                           | 21,201                      | 1,089,484                  | 55                                           | 13,109                      | 205,570                    | 70                            | 64                     | 34,310                      | 1,295,054                  |
| 1925                | 17                                           | 18,672                      | 1,040,276                  | 70                                           | 10,277                      | 153,005                    | 87                            | 86                     | 28,949                      | 1,193,281                  |
| 1926                | 16                                           | 8,445                       | 35,193                     | 61                                           | 15,389                      | 231,408                    | 77                            | 75                     | 23,834                      | 266,601                    |
| 1927                | 20                                           | 16,653                      | 53,833                     | 54                                           | 5,646                       | 98,737                     | 74                            | 72                     | 22,299                      | 152,570                    |
| 1928                | 14                                           | 5,033                       | 88,000                     | 84                                           | 12,548                      | 136,212                    | 98                            | 96                     | 17,581                      | 224,212                    |
| 1929                | 8                                            | 3,045                       | 6,805                      | 82                                           | 9,901                       | 145,275                    | 90                            | 88                     | 12,946                      | 152,080                    |
| 1930                | 15                                           | 6,228                       | 24,183                     | 52                                           | 7,540                       | 67,614                     | 67                            | 67                     | 13,768                      | 91,797                     |
| 1931                | 9                                            | 2,129                       | 11,523                     | 79                                           | 8,609                       | 192,715                    | 88                            | 86                     | 10,738                      | 204,238                    |
| 1932                | 33                                           | 8,540                       | 132,766                    | 83                                           | 14,850                      | 122,234                    | 116                           | 111                    | 23,390                      | 255,000                    |
| 1933                | 21                                           | 3,028                       | 33,019                     | 104                                          | 23,530                      | 284,528                    | 125                           | 122                    | 26,558                      | 317,547                    |
| 1934                | 26                                           | 11,461                      | 91,459                     | 165                                          | 34,339                      | 483,060                    | 191                           | 189                    | 45,800                      | 574,519                    |
| Totals <sup>2</sup> | 479 <sup>1</sup>                             | 291,306 <sup>1</sup>        | 9,244,179                  | 3,894 <sup>1</sup>                           | 797,683 <sup>1</sup>        | 11,972,876                 | 4,371 <sup>1</sup>            | 4,244                  | 1,088,989 <sup>1</sup>      | 24,217,049                 |

<sup>1</sup>Figures for disputes extending over the end of a year are here counted more than once. <sup>2</sup>The totals are for the whole period of record, 1901-34.

Table 16 is a record of industrial disputes by provinces for the years 1933 and 1934. In 1933 the most important disputes were: in Ontario, in logging and in textile and clothing; in Quebec, in the clothing industry and in furniture manufacturing; in British Columbia, in logging; and in Nova Scotia in coal mining. In 1934 important disputes occurred in Ontario in clothing factories, also in fur, shoe and furniture factories, in British Columbia in logging, in Quebec in clothing factories, in Manitoba in metal mining and in clothing factories, and in Nova Scotia in coal mining.

## 16.—Strikes and Lockouts, showing Number of Workers Involved and Time Loss, by Provinces, calendar years 1933 and 1934.

| Province.            | 1933.            |                          |               |                | 1934.            |                          |               |                |
|----------------------|------------------|--------------------------|---------------|----------------|------------------|--------------------------|---------------|----------------|
|                      | No. of Disputes. | No. of Workers Involved. | Time Loss.    |                | No. of Disputes. | No. of Workers Involved. | Time Loss.    |                |
|                      |                  |                          | Working Days. | P.C. of Total. |                  |                          | Working Days. | P.C. of Total. |
| P.E. Island.....     | —                | —                        | —             | —              | 1                | 15                       | 15            | 0.0            |
| Nova Scotia.....     | 9                | 1,696                    | 17,520        | 5.5            | 22               | 9,468                    | 66,832        | 11.6           |
| New Brunswick...     | 3                | 103                      | 496           | 0.2            | 5                | 1,475                    | 15,300        | 2.7            |
| Quebec.....          | 22               | 9,583                    | 69,471        | 21.8           | 31               | 13,030                   | 131,698       | 22.9           |
| Ontario.....         | 48               | 11,134                   | 187,121       | 58.9           | 89               | 15,203                   | 170,807       | 29.7           |
| Manitoba.....        | 17               | 404                      | 1,073         | 0.3            | 10               | 1,635                    | 40,050        | 7.0            |
| Saskatchewan.....    | —                | —                        | —             | —              | 1                | 6                        | 276           | 0.1            |
| Alberta.....         | 11               | 1,235                    | 14,474        | 4.6            | 9                | 519                      | 5,754         | 1.0            |
| British Columbia     | 15               | 2,403                    | 27,392        | 8.7            | 22               | 4,249                    | 140,787       | 24.5           |
| Interprovincial..... | —                | —                        | —             | —              | 1                | 200                      | 3,000         | 0.5            |
| Totals.....          | 125              | 26,558                   | 317,547       | 100.0          | 191              | 45,800                   | 574,519       | 100.0          |

Table 17 shows strikes and lockouts by industries during 1933 and 1934, the most important during both years occurring in logging, mining, clothing manufacturing, sawmilling and woodworking.

17.—Strikes and Lockouts, by Industries, 1933 and 1934.

| Industry.                                        | 1933.               |                   |                    |                   |                    | 1934.               |                   |                    |                   |                    |
|--------------------------------------------------|---------------------|-------------------|--------------------|-------------------|--------------------|---------------------|-------------------|--------------------|-------------------|--------------------|
|                                                  | Number of Disputes. | Workers Involved. |                    | Time Loss.        |                    | Number of Disputes. | Workers Involved. |                    | Time Loss.        |                    |
|                                                  |                     | Number.           | Per cent of Total. | Man-Working Days. | Per cent of Total. |                     | Number.           | Per cent of Total. | Man-Working Days. | Per cent of Total. |
| <b>Agriculture</b> .....                         | 1                   | 1,200             | 4.5                | 1,500             | 0.5                | 1                   | 93                | 0.2                | 93                | 0.0                |
| <b>Logging</b> .....                             | 14                  | 5,383             | 20.5               | 105,190           | 33.1               | 17                  | 5,889             | 12.9               | 193,558           | 33.7               |
| <b>Fishing and Trapping</b> .....                | 1                   | 250               | 0.9                | 6,500             | 2.0                | 1                   | 50                | 0.1                | 250               | 0.0                |
| <b>Mining, etc.</b> <sup>1</sup> .....           | 22                  | 3,428             | 12.9               | 47,019            | 14.8               | 28                  | 12,834            | 28.0               | 118,159           | 20.6               |
| <b>Manufacturing</b> .....                       | 65                  | 15,549            | 58.6               | 150,594           | 47.4               | 112                 | 25,150            | 54.9               | 252,009           | 43.9               |
| Vegetable foods, etc.                            | 6                   | 88                | 0.3                | 423               | 0.1                | 6                   | 186               | 0.4                | 1,060             | 0.2                |
| Tobacco and liquors.....                         | -                   | -                 | -                  | -                 | -                  | -                   | -                 | -                  | -                 | -                  |
| Rubber products.....                             | -                   | -                 | -                  | -                 | -                  | -                   | -                 | -                  | -                 | -                  |
| Animal foods.....                                | -                   | -                 | -                  | -                 | -                  | 3                   | 123               | 0.3                | 2,820             | 0.5                |
| Boots and shoes (leather).....                   | 2                   | 125               | 0.5                | 705               | 0.2                | 17                  | 2,245             | 4.9                | 12,550            | 2.2                |
| Fur, leather and other animal products.....      | 9                   | 888               | 3.3                | 8,630             | 2.7                | 8                   | 476               | 1.0                | 3,473             | 0.6                |
| Textiles, clothing, etc.                         | 35                  | 12,933            | 48.7               | 108,210           | 34.1               | 40                  | 18,348            | 40.0               | 190,646           | 33.2               |
| Pulp and paper.....                              | -                   | -                 | -                  | -                 | -                  | 4                   | 372               | 0.8                | 4,210             | 0.7                |
| Printing and publishing.....                     | 1                   | 16                | 0.1                | 50                | 0.0                | 1                   | 84                | 0.2                | 1,200             | 0.2                |
| Other wood products.....                         | 8                   | 1,141             | 4.3                | 29,830            | 9.4                | 24                  | 2,776             | 6.1                | 30,937            | 5.4                |
| Metal products.....                              | 1                   | 150               | 0.6                | 1,800             | 0.6                | 2                   | 261               | 0.6                | 800               | 0.1                |
| Non-metallic minerals, chemicals, etc.           | 1                   | 8                 | 0.0                | 96                | 0.0                | -                   | -                 | -                  | -                 | -                  |
| Miscellaneous products.....                      | 2                   | 200               | 0.8                | 850               | 0.3                | 7                   | 279               | 0.6                | 4,308             | 0.8                |
| <b>Construction</b> <sup>1</sup> .....           | 12                  | 274               | 1.0                | 3,226             | 1.0                | 7                   | 454               | 1.0                | 2,272             | 0.4                |
| Building and structures.....                     | 9                   | 164               | 0.6                | 2,456             | 0.8                | 5                   | 312               | 0.7                | 2,096             | 0.4                |
| Railway.....                                     | -                   | -                 | -                  | -                 | -                  | -                   | -                 | -                  | -                 | -                  |
| Shipbuilding.....                                | 1                   | 20                | 0.1                | 40                | 0.0                | -                   | -                 | -                  | -                 | -                  |
| Bridge.....                                      | 2                   | 90                | 0.3                | 730               | 0.2                | 1                   | 42                | 0.1                | 126               | 0.0                |
| Highway.....                                     | -                   | -                 | -                  | -                 | -                  | 1                   | 100               | 0.2                | 50                | 0.0                |
| Canal, harbour, waterway.....                    | -                   | -                 | -                  | -                 | -                  | -                   | -                 | -                  | -                 | -                  |
| Other.....                                       | -                   | -                 | -                  | -                 | -                  | -                   | -                 | -                  | -                 | -                  |
| <b>Transportation and Public Utilities</b> ..... | 3                   | 322               | 1.2                | 875               | 0.3                | 10                  | 465               | 1.0                | 629               | 0.1                |
| Steam railways.....                              | -                   | -                 | -                  | -                 | -                  | -                   | -                 | -                  | -                 | -                  |
| Electric railways.....                           | -                   | -                 | -                  | -                 | -                  | -                   | -                 | -                  | -                 | -                  |
| Water transportation.....                        | 1                   | 300               | 1.1                | 750               | 0.3                | 10                  | 465               | 1.0                | 629               | 0.1                |
| Local transportation.....                        | 1                   | 13                | 0.1                | 25                | 0.0                | -                   | -                 | -                  | -                 | -                  |
| Telegrams and telephones.....                    | -                   | -                 | -                  | -                 | -                  | -                   | -                 | -                  | -                 | -                  |
| Electricity and gas.....                         | -                   | -                 | -                  | -                 | -                  | -                   | -                 | -                  | -                 | -                  |
| Other.....                                       | 1                   | 9                 | 0.0                | 100               | 0.0                | -                   | -                 | -                  | -                 | -                  |
| <b>Trade</b> .....                               | 4                   | 98                | 0.4                | 2,383             | 0.8                | 4                   | 116               | 0.3                | 778               | 0.1                |
| <b>Finance</b> .....                             | -                   | -                 | -                  | -                 | -                  | -                   | -                 | -                  | -                 | -                  |
| <b>Service</b> .....                             | 3                   | 54                | 0.2                | 260               | 0.1                | 11                  | 749               | 1.6                | 6,771             | 1.2                |
| Public administration <sup>1</sup> .....         | 1                   | 41                | 0.2                | 80                | 0.0                | -                   | -                 | -                  | -                 | -                  |
| Recreational.....                                | 1                   | 6                 | 0.0                | 30                | 0.0                | 4                   | 303               | 0.6                | 4,146             | 0.7                |
| Custom and repair.....                           | -                   | -                 | -                  | -                 | -                  | 2                   | 70                | 0.2                | 550               | 0.1                |
| Business and personal.....                       | 1                   | 7                 | 0.0                | 150               | 0.1                | 5                   | 376               | 0.8                | 2,075             | 0.4                |
| <b>Miscellaneous</b> .....                       | -                   | -                 | -                  | -                 | -                  | -                   | -                 | -                  | -                 | -                  |
| <b>Totals</b> .....                              | 125                 | 26,558            | 100.0              | 317,547           | 100.0              | 191                 | 45,890            | 100.0              | 574,519           | 100.0              |

<sup>1</sup>Non-ferrous smelting is included with Mining; erection of all large bridges is under Bridge Construction; water service is under Public Administration.

**Causes and Results of Industrial Disputes.**—During 1933 and 1934, as in previous years, most of the disputes (92 and 139 respectively) were in regard to wages, or wages and working conditions. In 1934 there were only 10 strikes against decrease in wages, whereas in 1933 there were 20. A number of disputes were in regard to trade unionism, 35 in 1934 and 21 in 1933, as compared with 26 in both 1932 and 1931. In both years slightly over half of the disputes were terminated by direct negotiation between the parties, over one-quarter by the return of workers or their replacement, and about one-eighth of the disputes by conciliation.



## Section 9.—Employment and Unemployment.

### Subsection 1.—Operations of the Employment Service of Canada.

**Employment Service of Canada.**—Under Sec. 3 of The Employment Offices Co-ordination Act (c. 57, R.S.C., 1927), an Act passed by the Dominion Parliament in May, 1918, the Minister of Labour is empowered:—

"(a) to aid and encourage the organization and co-ordination of employment offices and to promote uniformity of methods among them;

"(b) to establish one or more clearing houses for the interchange of information between employment offices concerning the transfer of labour and other matters;

"(c) to compile and distribute information received from employment offices and from other sources regarding prevailing conditions of employment".

The Act further provides that certain sums of money are to be appropriated annually and paid to the provinces on a basis proportionate to the amount that each expends on the maintenance of employment offices.

The desired uniformity and co-ordination of employment office activities throughout the various provinces are obtained by having the Dominion's payments contingent upon an agreement ensuring that the provinces, in the conduct of their employment offices, shall endeavour to fill situations in all trades and occupations for both men and women, and that no charge shall be made to employers or employees for this service. Each province agrees to maintain a provincial clearance system in co-operation with the interprovincial clearance system established by the Dominion Government, in order to secure the necessary mobility of labour as between localities in the same province or in different provinces. For the fiscal year 1934-35, agreements were concluded with all of the provinces except Prince Edward Island. Thus is formed the Employment Service of Canada—a chain of employment offices reaching from Halifax to Vancouver. At the time the Act came into force only 12 provincial employment offices were operated in Canada. This number was steadily increased until, at the close of 1919, due to the impetus given by the Employment Offices Co-ordination Act together with the requirements of the demobilization period, offices were functioning at 84 different centres. Subsequent contractions have reduced the Service to offices permanently located at 65 centres (on Dec. 31, 1934), distributed by provinces as follows: Nova Scotia, 3; New Brunswick, 4; Quebec, 7; Ontario, 26; Manitoba, 3; Saskatchewan, 9; Alberta, 5; and British Columbia, 8.

**Employment Service Council of Canada.**—An Order in Council, issued in 1918 in pursuance of the Act, provided for the formation of a body to be advisory to the Minister of Labour in the administration thereof. This body, known as the Employment Service Council of Canada, is composed of representatives of the Dominion Departments of Labour and of Pensions and National Health, the Provincial Governments, the Canadian Manufacturers' Association, the Canadian Construction Association, the Trades and Labour Congress of Canada, the Railway Association of Canada, the Railway Brotherhoods, the Canadian Lumbermen's Association, the Canadian Council of Agriculture and the returned soldiers. At the eleven meetings of the Council, the most recent of which was held on Aug. 21-22, 1930, various recommendations and suggestions relative to employment office administration were brought forward and presented to the Minister.

**Operations of Employment Offices.**—Statistics covering the work of the local offices are collected and tabulated by the Employment Service Branch of the Department of Labour. Table 18 shows the positions available, applications for

work and placements effected by the Service in each year since 1920 for the Dominion, and for the years 1933 and 1934 by provinces. During 1934 there were 724,365 applications for employment, 427,792 vacancies and 406,091 placements recorded, as compared with 674,221 applications, 369,685 vacancies and 352,097 placements in 1933. About 45 p.c. of the total placements were of a casual nature, many of these being the result of work given on a rotation basis by municipalities and provincial governments on various relief schemes throughout the year to persons who, otherwise, would have been unemployed.

**Reduced Railway Fares.**—In order to facilitate the movement of labour in cases where there were not enough workers in any one locality to fill the available vacancies, the Employment Service, by special arrangement with nearly all the members of the Canadian Passenger Association, has been granted the privilege of issuing certificates which entitle the bearers to purchase railway tickets at the reduced rate of 2.7 cents per mile. This rate is for a second class ticket and is applicable only to fares of not less than \$4. During 1933, 3,850 certificates were issued, 2,694 to persons proceeding to points within the same province as the despatching office and 1,156 to workers going to points in other provinces. During 1934, 7,961 certificates for special rates were granted, 5,972 to persons travelling to employment within the same province as the despatching office and 1,989 to persons for whom employment had been secured in other provinces.

**18.—Applications for Employment, Positions Offered and Placements Effected by the Employment Service of Canada, 1920-34, and by Provinces, 1933 and 1934.<sup>1</sup>**

| Province.        | Year.               | Applications Registered. |                | Vacancies Notified. |               | Placements Effected. |               |
|------------------|---------------------|--------------------------|----------------|---------------------|---------------|----------------------|---------------|
|                  |                     | Men.                     | Women.         | Men.                | Women.        | Men.                 | Women.        |
| <b>Canada</b>    | <b>Totals, 1920</b> | 480,735                  | 96,054         | 450,526             | 116,142       | 365,292              | 80,529        |
|                  | <b>Totals, 1921</b> | 438,836                  | 105,563        | 325,498             | 106,097       | 277,792              | 77,964        |
|                  | <b>Totals, 1922</b> | 443,875                  | 104,407        | 365,529             | 104,359       | 316,386              | 77,136        |
|                  | <b>Totals, 1923</b> | 473,483                  | 115,692        | 431,576             | 109,404       | 376,801              | 85,751        |
|                  | <b>Totals, 1924</b> | 402,593                  | 116,782        | 314,358             | 97,810        | 285,359              | 80,773        |
|                  | <b>Totals, 1925</b> | 439,022                  | 118,023        | 345,570             | 101,473       | 328,334              | 84,491        |
|                  | <b>Totals, 1926</b> | 417,965                  | 124,504        | 345,163             | 111,769       | 319,558              | 90,597        |
|                  | <b>Totals, 1927</b> | 422,022                  | 131,849        | 339,478             | 114,095       | 320,306              | 94,463        |
|                  | <b>Totals, 1928</b> | 454,525                  | 142,968        | 376,791             | 129,635       | 361,942              | 108,386       |
|                  | <b>Totals, 1929</b> | 397,527                  | 153,199        | 296,592             | 131,435       | 287,128              | 111,239       |
|                  | <b>Totals, 1930</b> | 463,103                  | 149,887        | 278,835             | 107,199       | 274,227              | 94,452        |
|                  | <b>Totals, 1931</b> | 685,460                  | 140,693        | 391,857             | 94,527        | 389,231              | 82,277        |
|                  | <b>Totals, 1932</b> | 512,695                  | 139,733        | 282,643             | 83,385        | 278,975              | 73,239        |
| Nova Scotia      | 1933                | 17,630                   | 4,490          | 17,201              | 3,533         | 17,264               | 3,214         |
|                  | 1934                | 11,122                   | 4,795          | 10,828              | 3,685         | 10,785               | 3,313         |
| New Brunswick    | 1933                | 8,327                    | 4,138          | 8,029               | 4,123         | 8,009                | 4,096         |
|                  | 1934                | 7,562                    | 4,607          | 6,962               | 4,575         | 6,864                | 4,551         |
| Quebec           | 1933                | 38,362                   | 36,038         | 10,011              | 23,522        | 9,565                | 16,772        |
|                  | 1934                | 50,594                   | 39,779         | 19,693              | 31,169        | 19,975               | 21,567        |
| Ontario          | 1933                | 264,539                  | 59,530         | 134,782             | 29,881        | 131,788              | 24,409        |
|                  | 1934                | 318,009                  | 68,760         | 172,025             | 34,071        | 168,646              | 26,721        |
| Manitoba         | 1933                | 50,767                   | 11,624         | 25,079              | 8,240         | 26,382               | 8,097         |
|                  | 1934                | 44,343                   | 11,227         | 26,782              | 8,051         | 27,982               | 7,962         |
| Saskatchewan     | 1933                | 27,953                   | 9,423          | 26,334              | 8,427         | 25,296               | 7,246         |
|                  | 1934                | 22,756                   | 9,228          | 21,171              | 7,899         | 20,424               | 7,037         |
| Alberta          | 1933                | 51,631                   | 7,816          | 24,289              | 4,659         | 24,109               | 4,508         |
|                  | 1934                | 48,271                   | 7,416          | 27,802              | 4,983         | 27,647               | 4,618         |
| British Columbia | 1933                | 71,832                   | 9,821          | 36,305              | 5,180         | 36,156               | 5,166         |
|                  | 1934                | 66,644                   | 9,252          | 42,644              | 5,452         | 42,577               | 5,422         |
| <b>Canada</b>    | <b>Totals, 1933</b> | <b>531,041</b>           | <b>143,180</b> | <b>282,120</b>      | <b>87,565</b> | <b>278,589</b>       | <b>73,508</b> |
|                  | <b>Totals, 1934</b> | <b>569,301</b>           | <b>155,064</b> | <b>327,907</b>      | <b>99,885</b> | <b>324,900</b>       | <b>81,191</b> |

<sup>1</sup>Figures by provinces for the years 1920-25 will be found at p. 703 of the 1926 Year Book, for 1926-28 at p. 731 of the 1930 Year Book, for 1929-30 at p. 773 of the 1931 Year Book and for 1931-32 at p. 768 of the 1933 Year Book.

### Subsection 2.—Unemployment as Reported by Trade Unions.

Monthly statistics on unemployment are compiled and published by the Employment Service Branch of the Dominion Department of Labour, based on returns received from 1,700 local trade unions having an aggregate membership of nearly 156,000 workers. "Unemployment" as here used means involuntary idleness, due to economic causes. Persons engaged in work other than their own trades, or idle because of illness, are not considered as unemployed, while unions involved in industrial disputes are excluded from the tabulations. As the number of unions making returns varies from month to month, with consequent variation in the membership upon which the percentages of unemployment are based, it should be understood that the figures for each month have reference only to the reporting organizations. Table 19 is a record of unemployment in trade unions, for the past 20 years, by provinces. The maximum of unemployment in 1934 was in January, when the percentage stood at 21.2; in 1933 the January figure of 25.5 p.c. constituted the maximum. In 1933 the minimum, reached in both September and October, was 19.8 p.c., while the 1934 low was 16.2 p.c. recorded in October. Employment among organized workers, as indicated by these statistics, was more active on the average in 1934 than 1933, the average of the monthly figures of unemployment for 1934 being 18.2 p.c., while for 1933 the corresponding figure was 22.3 p.c.

### 19.—Percentages of Unemployment in Trade Unions, by Provinces, half-yearly, 1915-32, and by months, 1933 and 1934.

NOTE.—For the percentages of unemployment for 12 months in 1921 and 1922, see p. 732 of the 1922-23 Year Book; for 12 months in 1923, p. 688 of the 1924 Year Book; for 12 months in 1924, p. 700 of the 1925 Year Book; for 12 months in 1925, p. 704 of the 1926 Year Book; for 12 months in 1926, p. 757 of the 1927-28 Year Book; for 12 months in 1927, p. 745 of the 1929 Year Book; for 12 months in 1928 and 1929, p. 733 of the 1930 Year Book; for 12 months in 1930, p. 774 of the 1931 Year Book; for 12 months in 1931, p. 651 of the 1932 Year Book, and for 12 months in 1932, p. 769 of the 1933 Year Book.

| Month.    | Year. | Nova<br>Scotia<br>and<br>P.E.I. | New<br>Brun-<br>swick. | Quebec. | Ontario. | Mani-<br>toba. | Saskat-<br>chewan. | Alberta. | British<br>Colum-<br>bia. | Canada. |
|-----------|-------|---------------------------------|------------------------|---------|----------|----------------|--------------------|----------|---------------------------|---------|
| Dec.....  | 1915  | 0.4                             | 0.7                    | 9.5     | 8.1      | 3.2            | 7.0                | 4.3      | 14.8                      | 7.9     |
| June..... | 1916  | 0.5                             | 0.9                    | 1.8     | 1.7      | 1.2            | 2.6                | 3.1      | 5.4                       | 2.1     |
| Dec.....  | 1916  | 0.4                             | 0.2                    | 3.7     | 1.6      | 1.0            | 1.6                | 1.7      | 2.4                       | 2.0     |
| June..... | 1917  | 0.2                             | 0.2                    | 2.5     | 0.9      | 0.6            | 0.3                | 0.8      | 1.8                       | 1.2     |
| Dec.....  | 1917  | 2.6                             | 4.1                    | 3.2     | 2.4      | 1.1            | 2.4                | 1.6      | 3.2                       | 2.5     |
| June..... | 1918  | 0.2                             | 0.3                    | 0.4     | 0.4      | 0.3            | 0.2                | 0.4      | 0.9                       | 0.4     |
| Dec.....  | 1918  | 2.0                             | 0.4                    | 2.2     | 2.9      | 1.3            | 2.2                | 2.1      | 4.0                       | 2.5     |
| June..... | 1919  | 2.7                             | 2.4                    | 4.0     | 1.8      | 1.2            | 2.5                | 1.7      | 3.4                       | 2.6     |
| Dec.....  | 1919  | 1.5                             | 2.0                    | 3.2     | 1.9      | 5.0            | 6.0                | 2.8      | 18.6                      | 4.3     |
| June..... | 1920  | 0.6                             | 0.4                    | 3.1     | 1.6      | 1.4            | 2.2                | 1.2      | 5.8                       | 2.1     |
| Dec.....  | 1920  | 6.9                             | 11.0                   | 19.6    | 12.3     | 7.8            | 10.1               | 9.2      | 11.6                      | 13.0    |
| June..... | 1921  | 14.3                            | 11.7                   | 20.7    | 6.7      | 8.0            | 6.8                | 9.4      | 24.4                      | 13.2    |
| Dec.....  | 1921  | 5.9                             | 6.9                    | 26.8    | 9.7      | 15.5           | 10.4               | 6.8      | 24.7                      | 15.1    |
| June..... | 1922  | 7.2                             | 3.5                    | 5.4     | 3.9      | 6.7            | 5.0                | 7.1      | 7.1                       | 5.3     |
| Dec.....  | 1922  | 3.2                             | 6.1                    | 7.8     | 4.7      | 7.8            | 4.1                | 5.1      | 13.3                      | 6.4     |
| June..... | 1923  | 2.2                             | 1.0                    | 5.7     | 1.6      | 5.6            | 1.3                | 4.5      | 4.0                       | 3.4     |
| Dec.....  | 1923  | 7.3                             | 3.6                    | 9.7     | 6.4      | 6.5            | 4.2                | 6.0      | 7.1                       | 7.2     |
| June..... | 1924  | 6.4                             | 5.2                    | 9.4     | 4.9      | 4.9            | 2.3                | 3.7      | 2.2                       | 5.8     |
| Dec.....  | 1924  | 4.7                             | 6.9                    | 22.4    | 8.1      | 8.9            | 4.2                | 5.0      | 10.2                      | 11.6    |
| June..... | 1925  | 3.4                             | 3.4                    | 10.2    | 3.8      | 4.3            | 2.4                | 10.8     | 4.1                       | 6.1     |
| Dec.....  | 1925  | 4.3                             | 3.0                    | 14.2    | 6.4      | 3.8            | 3.5                | 4.4      | 6.9                       | 7.9     |

**19.—Percentages of Unemployment in Trade Unions, by Provinces, half-yearly, 1915-32, and by months, 1933 and 1934—concluded.**

| Month.     | Year. | Nova<br>Scotia<br>and<br>P.E.I. | New<br>Brun-<br>swick. | Quebec. | Ontario. | Mani-<br>toba. | Saskat-<br>chewan. | Alberta. | British<br>Colum-<br>bia. | Canada. |
|------------|-------|---------------------------------|------------------------|---------|----------|----------------|--------------------|----------|---------------------------|---------|
| June.....  | 1926  | 3.8                             | 1.6                    | 8.9     | 1.9      | 2.6            | 0.8                | 4.9      | 2.6                       | 4.1     |
| Dec.....   | 1926  | 3.2                             | 2.2                    | 7.6     | 5.6      | 4.3            | 2.1                | 6.7      | 7.5                       | 5.9     |
| June.....  | 1927  | 1.8                             | 2.3                    | 4.0     | 3.1      | 2.6            | 1.1                | 4.6      | 2.7                       | 3.2     |
| Dec.....   | 1927  | 4.3                             | 1.5                    | 9.3     | 5.1      | 5.4            | 5.6                | 3.7      | 10.5                      | 6.6     |
| June.....  | 1928  | 0.5                             | 0.8                    | 5.6     | 2.4      | 2.1            | 1.1                | 3.3      | 3.6                       | 3.2     |
| Dec.....   | 1928  | 3.9                             | 0.9                    | 10.7    | 4.0      | 8.1            | 4.4                | 6.9      | 6.9                       | 6.6     |
| June.....  | 1929  | 3.3                             | 1.0                    | 2.9     | 2.5      | 3.1            | 2.8                | 4.3      | 2.6                       | 2.9     |
| Dec.....   | 1929  | 5.2                             | 2.4                    | 14.5    | 9.7      | 12.8           | 13.0               | 13.9     | 11.5                      | 11.4    |
| June.....  | 1930  | 3.3                             | 2.8                    | 17.5    | 7.4      | 9.2            | 8.9                | 14.3     | 8.4                       | 10.6    |
| Dec.....   | 1930  | 7.5                             | 8.7                    | 22.8    | 17.3     | 14.2           | 15.9               | 13.8     | 16.8                      | 17.0    |
| June.....  | 1931  | 7.2                             | 6.5                    | 20.0    | 16.2     | 14.1           | 13.5               | 21.7     | 15.6                      | 16.3    |
| Dec.....   | 1931  | 13.8                            | 9.6                    | 29.0    | 20.3     | 16.5           | 19.5               | 16.9     | 21.2                      | 21.1    |
| June.....  | 1932  | 9.6                             | 12.0                   | 27.1    | 23.4     | 18.1           | 14.4               | 23.4     | 22.3                      | 21.9    |
| Dec.....   | 1932  | 8.4                             | 16.5                   | 30.9    | 28.5     | 20.9           | 20.8               | 22.8     | 26.0                      | 25.5    |
| Jan.....   | 1933  | 22.7                            | 15.6                   | 26.9    | 28.7     | 23.6           | 22.7               | 22.7     | 21.6                      | 25.5    |
| Feb.....   | 1933  | 9.2                             | 17.1                   | 27.5    | 28.8     | 22.0           | 21.8               | 19.8     | 21.9                      | 24.3    |
| Mar.....   | 1933  | 22.7                            | 16.4                   | 27.3    | 26.8     | 20.3           | 20.5               | 25.3     | 23.8                      | 25.1    |
| April..... | 1933  | 21.3                            | 15.1                   | 25.7    | 26.5     | 20.9           | 17.5               | 28.1     | 22.6                      | 24.5    |
| May.....   | 1933  | 26.6                            | 14.2                   | 25.0    | 24.9     | 21.0           | 17.9               | 25.9     | 19.5                      | 23.8    |
| June.....  | 1933  | 13.8                            | 13.0                   | 26.2    | 23.3     | 19.4           | 14.9               | 24.5     | 18.6                      | 21.8    |
| July.....  | 1933  | 12.2                            | 11.0                   | 26.0    | 22.9     | 19.0           | 15.4               | 23.1     | 17.5                      | 21.2    |
| Aug.....   | 1933  | 12.6                            | 11.1                   | 22.6    | 21.7     | 17.9           | 14.3               | 22.0     | 19.9                      | 19.9    |
| Sept.....  | 1933  | 11.0                            | 10.4                   | 24.1    | 20.9     | 19.1           | 13.5               | 19.7     | 21.3                      | 19.8    |
| Oct.....   | 1933  | 12.5                            | 9.8                    | 25.1    | 20.3     | 19.4           | 13.3               | 16.5     | 21.7                      | 19.8    |
| Nov.....   | 1933  | 17.1                            | 10.7                   | 22.8    | 22.1     | 20.4           | 16.1               | 15.0     | 21.3                      | 20.4    |
| Dec.....   | 1933  | 11.2                            | 11.5                   | 23.2    | 24.9     | 20.3           | 17.2               | 17.6     | 19.8                      | 21.0    |
| Jan.....   | 1934  | 10.7                            | 9.4                    | 23.6    | 24.2     | 21.2           | 17.9               | 16.4     | 25.0                      | 21.2    |
| Feb.....   | 1934  | 10.8                            | 9.8                    | 21.9    | 22.5     | 21.6           | 18.3               | 17.1     | 21.2                      | 20.0    |
| Mar.....   | 1934  | 9.1                             | 10.7                   | 22.3    | 19.9     | 21.8           | 18.5               | 20.3     | 19.9                      | 19.5    |
| April..... | 1934  | 10.9                            | 9.6                    | 22.3    | 18.6     | 19.5           | 15.6               | 22.4     | 19.2                      | 19.1    |
| May.....   | 1934  | 11.8                            | 8.1                    | 23.6    | 15.9     | 17.8           | 14.2               | 24.3     | 18.4                      | 18.5    |
| June.....  | 1934  | 11.4                            | 7.3                    | 22.9    | 15.9     | 17.0           | 12.1               | 24.8     | 17.2                      | 18.0    |
| July.....  | 1934  | 9.9                             | 6.2                    | 24.1    | 16.3     | 16.1           | 9.3                | 24.1     | 16.2                      | 17.9    |
| Aug.....   | 1934  | 7.8                             | 6.1                    | 18.8    | 17.0     | 16.2           | 9.6                | 18.5     | 20.5                      | 16.5    |
| Sept.....  | 1934  | 7.3                             | 6.6                    | 21.2    | 16.7     | 14.6           | 9.0                | 15.3     | 18.1                      | 16.4    |
| Oct.....   | 1934  | 4.7                             | 6.7                    | 22.2    | 16.5     | 13.9           | 9.7                | 11.0     | 19.9                      | 16.2    |
| Nov.....   | 1934  | 5.3                             | 7.9                    | 25.7    | 16.3     | 16.3           | 11.7               | 10.7     | 21.3                      | 17.5    |
| Dec.....   | 1934  | 4.7                             | 7.2                    | 24.5    | 18.7     | 16.1           | 13.1               | 9.0      | 24.6                      | 18.0    |

**Subsection 3.—Employment as Reported by Employers.**

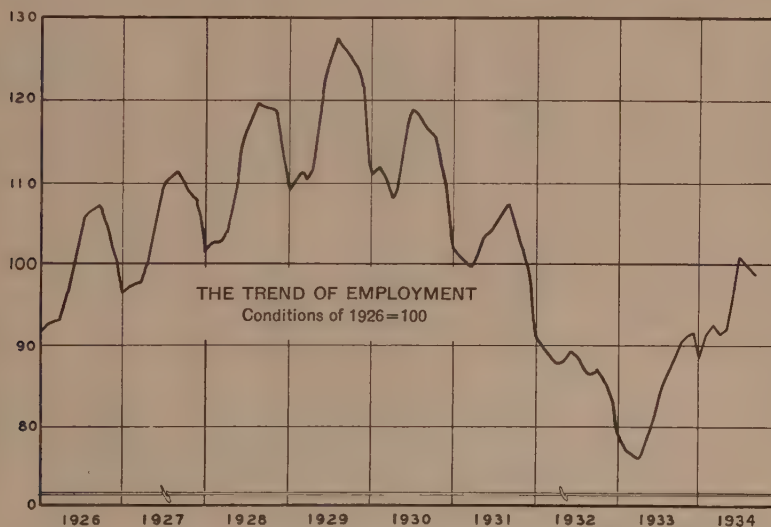
The Dominion Bureau of Statistics tabulates monthly reports of the numbers employed by firms having 15 or more persons on their staffs; the returns are representative of practically every industry except agriculture and the more specialized business and professional callings. During 1934 about 8,700 of these employers reported an average working force of 893,653 persons, varying from 821,131 on Jan. 1, to 941,165 at the beginning of July. The general recovery in industrial activity, in evidence from the second quarter of 1933, continued with considerable force in 1934. The fluctuations in the latter differed from those of the preceding year, but the gains then made were consolidated and extended, with the result that employment in 1934 was in greater volume than in either 1933 or 1932. A significant feature of the situation during 1934 was the widespread nature of the revival, in



which all five economic areas, the leading industrial cities and the principal industries shared to a greater or less degree.

Works undertaken for the relief of unemployment continued to be an important factor during 1934, when the number of man-days worked on a wage basis, as reported to the Dominion Unemployment Relief Commissioner by Dominion and provincial authorities, was 8,749,940; there were also 9,557,862 man-days relief work afforded in publicly operated camps where the unemployed were cared for and given useful work in return for subsistence and a small cash allowance. During 1933, the man-days worked on a wage basis numbered 1,643,111, and the number of man-days relief work afforded on a subsistence basis was 9,714,701.

The fluctuations in employment in the past nine years are illustrated in the following chart. This shows the generally upward movement that characterized industrial activity in the twenty months from the low point of employment in the depression on Apr. 1, 1933, to the close of 1934.



**Employment by Economic Areas.**—The recovery in industrial activity during 1934 extended to all five economic areas, but to a varying extent; the situation at the close of the year was decidedly better in each of the districts than it had been at the opening of 1934, and also than it was at the end of 1933. The greatest proportional gain between the 1934 low and high points occurred in Ontario, where the index, at its maximum of 109.9 on July 1, was 18.7 points higher than the minimum of 91.2 recorded on Jan. 1. Employment in all five economic areas was greater, on the average, in 1934 than in the preceding twelve months. Table 20 is a record of employment in the five economic areas, by months, in 1933 and 1934, with averages for preceding years since 1921.

**20.—Index Numbers of Employment as Reported by Employers in Economic Areas, as at the First of each Month, January, 1933, to December, 1934, with Yearly Averages since 1921.**

NOTE.—These indexes are calculated upon the average for the calendar year 1926 as 100. The relative weight shows the proportion of employees reported in the indicated economic area to the total reported by all employers making returns in Canada on Dec. 1, 1934.

| Year and Month.                                                                         | Maritime<br>Provinces. | Quebec.      | Ontario.     | Prairie<br>Provinces. | British<br>Columbia. | Canada.      |
|-----------------------------------------------------------------------------------------|------------------------|--------------|--------------|-----------------------|----------------------|--------------|
| <b>Averages, 1921.....</b>                                                              | <b>102.4</b>           | <b>82.2</b>  | <b>90.6</b>  | <b>94.0</b>           | <b>81.1</b>          | <b>88.8</b>  |
| <b>Averages, 1922.....</b>                                                              | <b>97.3</b>            | <b>81.4</b>  | <b>92.8</b>  | <b>92.6</b>           | <b>82.8</b>          | <b>89.0</b>  |
| <b>Averages, 1923.....</b>                                                              | <b>105.7</b>           | <b>90.7</b>  | <b>95.5</b>  | <b>94.8</b>           | <b>87.4</b>          | <b>95.8</b>  |
| <b>Averages, 1924.....</b>                                                              | <b>96.6</b>            | <b>91.3</b>  | <b>95.5</b>  | <b>92.1</b>           | <b>89.4</b>          | <b>93.4</b>  |
| <b>Averages, 1925.....</b>                                                              | <b>97.0</b>            | <b>91.7</b>  | <b>95.8</b>  | <b>92.0</b>           | <b>93.7</b>          | <b>93.6</b>  |
| <b>Averages, 1926.....</b>                                                              | <b>99.4</b>            | <b>93.4</b>  | <b>99.6</b>  | <b>99.5</b>           | <b>100.2</b>         | <b>99.6</b>  |
| <b>Averages, 1927.....</b>                                                              | <b>103.7</b>           | <b>104.0</b> | <b>105.6</b> | <b>105.3</b>          | <b>101.1</b>         | <b>104.6</b> |
| <b>Averages, 1928.....</b>                                                              | <b>106.6</b>           | <b>108.3</b> | <b>113.8</b> | <b>117.9</b>          | <b>106.4</b>         | <b>111.6</b> |
| <b>Averages, 1929.....</b>                                                              | <b>114.8</b>           | <b>113.4</b> | <b>123.1</b> | <b>126.3</b>          | <b>111.5</b>         | <b>119.0</b> |
| <b>Averages, 1930.....</b>                                                              | <b>118.3</b>           | <b>110.3</b> | <b>114.6</b> | <b>117.1</b>          | <b>107.9</b>         | <b>113.4</b> |
| <b>Averages, 1931.....</b>                                                              | <b>108.1</b>           | <b>100.9</b> | <b>101.2</b> | <b>111.5</b>          | <b>95.5</b>          | <b>102.5</b> |
| <b>Averages, 1932.....</b>                                                              | <b>92.2</b>            | <b>85.5</b>  | <b>88.7</b>  | <b>90.0</b>           | <b>80.5</b>          | <b>87.5</b>  |
| <b>1933.</b>                                                                            |                        |              |              |                       |                      |              |
| Jan. 1.....                                                                             | 80.1                   | 77.8         | 78.8         | 84.4                  | 69.7                 | 78.5         |
| Feb. 1.....                                                                             | 76.5                   | 75.7         | 78.9         | 80.4                  | 68.0                 | 77.0         |
| Mar. 1.....                                                                             | 76.8                   | 74.1         | 79.8         | 80.0                  | 67.7                 | 76.9         |
| April 1.....                                                                            | 78.3                   | 73.1         | 78.3         | 78.3                  | 68.8                 | 76.0         |
| May 1.....                                                                              | 80.3                   | 75.4         | 79.5         | 79.2                  | 72.2                 | 77.6         |
| June 1.....                                                                             | 82.8                   | 79.3         | 81.6         | 82.7                  | 76.2                 | 80.7         |
| July 1.....                                                                             | 89.9                   | 83.0         | 85.0         | 85.0                  | 81.8                 | 84.5         |
| Aug. 1.....                                                                             | 93.0                   | 84.8         | 86.6         | 90.5                  | 87.3                 | 87.1         |
| Sept. 1.....                                                                            | 91.5                   | 87.0         | 88.1         | 90.7                  | 89.2                 | 88.5         |
| Oct. 1.....                                                                             | 90.9                   | 89.1         | 89.6         | 98.7                  | 85.6                 | 90.4         |
| Nov. 1.....                                                                             | 90.2                   | 92.2         | 91.4         | 94.6                  | 84.0                 | 91.3         |
| Dec. 1.....                                                                             | 93.4                   | 92.4         | 93.3         | 89.3                  | 85.4                 | 91.8         |
| <b>Averages, 1933.....</b>                                                              | <b>85.3</b>            | <b>82.0</b>  | <b>84.2</b>  | <b>86.2</b>           | <b>78.0</b>          | <b>83.4</b>  |
| <b>1934.</b>                                                                            |                        |              |              |                       |                      |              |
| Jan. 1.....                                                                             | 97.0                   | 86.3         | 91.2         | 86.4                  | 80.4                 | 88.6         |
| Feb. 1.....                                                                             | 101.3                  | 88.5         | 95.3         | 84.7                  | 84.1                 | 91.4         |
| Mar. 1.....                                                                             | 103.2                  | 89.1         | 97.8         | 83.8                  | 85.6                 | 92.7         |
| April 1.....                                                                            | 95.1                   | 85.1         | 98.7         | 83.3                  | 86.6                 | 91.3         |
| May 1.....                                                                              | 98.3                   | 85.5         | 98.5         | 85.4                  | 88.4                 | 92.0         |
| June 1.....                                                                             | 98.4                   | 90.9         | 104.4        | 89.5                  | 89.1                 | 96.6         |
| July 1.....                                                                             | 100.4                  | 94.1         | 109.9        | 94.1                  | 94.1                 | 101.0        |
| Aug. 1.....                                                                             | 101.3                  | 94.9         | 106.0        | 93.0                  | 97.6                 | 99.9         |
| Sept. 1.....                                                                            | 101.8                  | 95.4         | 103.3        | 92.9                  | 96.2                 | 98.8         |
| Oct. 1.....                                                                             | 103.1                  | 96.0         | 104.8        | 95.7                  | 95.4                 | 100.0        |
| Nov. 1.....                                                                             | 104.9                  | 98.0         | 103.6        | 96.5                  | 94.1                 | 100.2        |
| Dec. 1.....                                                                             | 106.9                  | 96.4         | 101.7        | 94.3                  | 92.9                 | 98.9         |
| <b>Averages, 1934.....</b>                                                              | <b>101.0</b>           | <b>91.7</b>  | <b>101.3</b> | <b>90.0</b>           | <b>90.4</b>          | <b>96.0</b>  |
| Relative weights of employment in economic areas, as at Dec. 1, 1934 <sup>1</sup> ..... | 8.2                    | 28.5         | 42.2         | 12.8                  | 8.3                  | 100.0        |

<sup>1</sup> Since the average for the calendar year 1926, including figures up to Dec. 31, 1926, is the base used in computing these indexes, the average index here given for the 12 months Jan. 1-Dec. 1, 1926, generally shows a slight variation from 100. <sup>2</sup> Percentages of Dominion total.

**Employment by Cities.**—Separate tabulations are made for the eight leading industrial centres, of which Montreal, Toronto, Ottawa, Hamilton, Windsor\*, Winnipeg and Vancouver reported improvement in 1934, while in the eighth—Quebec city—the index averaged the same as in 1933. It is of significance that the recovery in the cities has generally been at a slower rate than in the Dominion as a whole. This is partly accounted for by the concentration of single homeless unemployed men in publicly-maintained construction camps outside the municipi-

\*Includes adjacent "Border Cities".

palities. The unusually large gains in industries ordinarily operated in the rural areas, such as mining, logging, lumbering and canning, also contributed to the disparity in the increase in the cities as compared with the Dominion as a whole. Still other factors are the forces, legislative and other, which operate to maintain wages in the cities at a relatively higher level than in towns and villages, thus tending to hasten recovery in the smaller centres at the expense of the larger units of population, where taxes, rents, etc., are necessarily higher. Table 21 gives monthly indexes in the cities in 1933 and 1934, with yearly averages since 1922.

**21.—Index Numbers of Employment as Reported by Employers in Leading Cities, as at the First of each Month, January, 1933, to December, 1934, with Yearly Averages since 1922.**

NOTE.—These indexes are calculated upon the average for the calendar year 1926 as 100. The relative weight shows the proportion of employees reported in the indicated city to the total reported by all employers making returns in Canada on Dec. 1, 1934.

| Year and Month.                                                          | Montreal. | Quebec. | Toronto. | Ottawa. | Hamilton. | Windsor. <sup>2</sup> | Winnipeg. | Vancouver. |
|--------------------------------------------------------------------------|-----------|---------|----------|---------|-----------|-----------------------|-----------|------------|
| Averages, 1922.....                                                      | 86.0      | —       | 96.1     | —       | —         | —                     | 93.9      | 81.5       |
| Averages, 1923.....                                                      | 92.7      | —       | 98.0     | 107.2   | 94.6      | —                     | 90.6      | 82.5       |
| Averages, 1924.....                                                      | 93.0      | 99.6    | 94.3     | 102.3   | 86.0      | —                     | 86.5      | 86.2       |
| Averages, 1925.....                                                      | 94.2      | 97.9    | 95.7     | 100.1   | 88.0      | 85.1                  | 89.5      | 92.6       |
| Averages, 1926 <sup>1</sup> .....                                        | 99.7      | 99.1    | 99.6     | 100.0   | 99.3      | 99.9                  | 99.2      | 99.9       |
| Averages, 1927.....                                                      | 103.0     | 111.3   | 105.7    | 107.7   | 103.1     | 86.2                  | 104.1     | 100.7      |
| Averages, 1928.....                                                      | 108.2     | 119.9   | 112.1    | 115.8   | 108.2     | 137.3                 | 110.1     | 104.3      |
| Averages, 1929.....                                                      | 115.3     | 124.2   | 121.3    | 120.7   | 128.4     | 153.2                 | 112.3     | 109.2      |
| Averages, 1930.....                                                      | 111.8     | 125.3   | 116.3    | 123.1   | 113.9     | 128.6                 | 107.6     | 109.8      |
| Averages, 1931.....                                                      | 102.5     | 122.2   | 107.7    | 119.5   | 101.3     | 88.3                  | 97.1      | 104.5      |
| Averages, 1932.....                                                      | 88.1      | 101.8   | 95.2     | 99.3    | 83.7      | 78.4                  | 86.6      | 88.5       |
| 1933.                                                                    |           |         |          |         |           |                       |           |            |
| Jan. 1.....                                                              | 77.5      | 92.6    | 86.5     | 85.3    | 70.7      | 63.9                  | 80.0      | 82.5       |
| Feb. 1.....                                                              | 76.1      | 88.9    | 84.7     | 85.7    | 70.4      | 67.2                  | 77.8      | 81.2       |
| Mar. 1.....                                                              | 75.8      | 92.3    | 84.4     | 85.5    | 70.8      | 70.5                  | 78.0      | 80.5       |
| April 1.....                                                             | 76.4      | 92.7    | 85.0     | 85.3    | 70.9      | 79.0                  | 78.0      | 79.0       |
| May 1.....                                                               | 79.5      | 93.7    | 85.6     | 87.2    | 69.4      | 80.6                  | 77.0      | 79.2       |
| June 1.....                                                              | 80.6      | 96.8    | 86.5     | 91.1    | 75.6      | 78.9                  | 79.4      | 81.9       |
| July 1.....                                                              | 81.5      | 99.4    | 87.7     | 91.5    | 77.2      | 80.5                  | 80.3      | 83.4       |
| Aug. 1.....                                                              | 82.4      | 99.5    | 86.9     | 92.7    | 77.5      | 80.9                  | 81.7      | 85.2       |
| Sept. 1.....                                                             | 84.4      | 99.7    | 88.4     | 93.1    | 77.7      | 76.2                  | 82.2      | 87.4       |
| Oct. 1.....                                                              | 87.3      | 98.3    | 90.9     | 93.2    | 75.4      | 77.6                  | 82.3      | 85.9       |
| Nov. 1.....                                                              | 86.4      | 94.7    | 91.5     | 95.5    | 79.5      | 76.7                  | 81.5      | 85.1       |
| Dec. 1.....                                                              | 84.5      | 92.9    | 92.0     | 95.4    | 80.0      | 78.2                  | 83.3      | 84.9       |
| Averages, 1933                                                           | 81.0      | 95.1    | 87.5     | 90.2    | 74.6      | 75.9                  | 80.2      | 83.0       |
| 1934.                                                                    |           |         |          |         |           |                       |           |            |
| Jan. 1.....                                                              | 78.0      | 86.5    | 90.0     | 95.8    | 77.1      | 76.5                  | 81.1      | 82.2       |
| Feb. 1.....                                                              | 81.1      | 89.6    | 89.7     | 98.4    | 80.7      | 90.9                  | 79.5      | 83.9       |
| Mar. 1.....                                                              | 82.6      | 93.2    | 91.1     | 96.7    | 81.0      | 97.7                  | 79.7      | 84.1       |
| April 1.....                                                             | 82.1      | 95.4    | 92.7     | 97.6    | 83.0      | 102.9                 | 79.7      | 84.8       |
| May 1.....                                                               | 82.9      | 96.3    | 92.9     | 100.8   | 83.9      | 109.3                 | 81.2      | 85.9       |
| June 1.....                                                              | 86.3      | 97.9    | 93.9     | 102.4   | 86.7      | 107.1                 | 81.9      | 86.3       |
| July 1.....                                                              | 86.7      | 96.1    | 94.1     | 102.4   | 87.5      | 100.6                 | 82.7      | 89.8       |
| Aug. 1.....                                                              | 86.4      | 99.4    | 92.9     | 103.4   | 87.8      | 100.7                 | 84.0      | 91.5       |
| Sept. 1.....                                                             | 86.6      | 99.9    | 94.3     | 100.9   | 84.9      | 91.0                  | 85.2      | 91.8       |
| Oct. 1.....                                                              | 87.0      | 97.5    | 96.5     | 100.8   | 84.4      | 86.7                  | 86.5      | 90.5       |
| Nov. 1.....                                                              | 87.3      | 96.5    | 97.2     | 98.6    | 86.3      | 76.1                  | 86.4      | 89.0       |
| Dec. 1.....                                                              | 86.7      | 92.4    | 97.1     | 96.0    | 86.1      | 77.9                  | 87.1      | 89.0       |
| Averages, 1934                                                           | 84.5      | 95.1    | 93.5     | 99.5    | 84.1      | 93.1                  | 82.9      | 87.4       |
| Relative weights,<br>by cities, as at<br>Dec. 1, 1934 <sup>3</sup> ..... | 13.9      | 1.3     | 12.7     | 1.4     | 3.0       | 1.1                   | 4.0       | 3.0        |

<sup>1</sup> Since the average for the calendar year 1926, including figures up to Dec. 31, 1926, is the base used in computing these indexes, the average index here shown for the 12 months Jan. 1-Dec. 1, 1926, generally shows a slight variation from 100. <sup>2</sup> Includes adjacent "Border Cities". <sup>3</sup> Percentages of Dominion total.

**Employment by Industries.**—An analysis of the returns by industries shows widespread improvement in 1934 as compared with the preceding year. Manufacturing, logging, mining, construction and maintenance, services and trade recorded the most important gains, while among the chief industrial groups only communications showed a decline in comparison with the statistics for 1933. Within the manufacturing division, there were especially pronounced advances in the lumber, rubber, textile, clay, glass and stone, electrical apparatus, iron and steel, non-ferrous metal and miscellaneous manufactures. Table 22 gives index numbers of employment by main industrial groups.

**22.—Index Numbers of Employment as Reported by Employers, by Industrial Groups, as at the First of each Month, January, 1933, to December, 1934, with Yearly Averages since 1921.**

NOTE.—These indexes are calculated upon the average for the calendar year 1926 as 100. The relative weight shows the proportion of the employees reported in the indicated industry to the total reported by all employers making returns in Canada on Dec. 1, 1934.

| Year and Month.                                                    | Manu-<br>factur-<br>ing. | Log-<br>ging. | Mining.      | Com-<br>muni-<br>cations. | Trans-<br>porta-<br>tion. | Con-<br>struc-<br>tion and<br>Main-<br>tenance. | Ser-<br>vices. | Trade.       | All<br>Indus-<br>tries. |
|--------------------------------------------------------------------|--------------------------|---------------|--------------|---------------------------|---------------------------|-------------------------------------------------|----------------|--------------|-------------------------|
| <b>Averages, 1921.....</b>                                         | 87.7                     | 103.0         | 98.0         | 90.2                      | 94.1                      | 71.1                                            | 83.6           | 92.7         | 88.8                    |
| <b>Averages, 1922.....</b>                                         | 88.3                     | 85.1          | 99.5         | 86.4                      | 97.8                      | 76.7                                            | 81.9           | 90.8         | 89.0                    |
| <b>Averages, 1923.....</b>                                         | 96.6                     | 114.2         | 106.2        | 87.6                      | 100.3                     | 80.9                                            | 87.9           | 92.1         | 95.8                    |
| <b>Averages, 1924.....</b>                                         | 92.4                     | 116.7         | 105.3        | 93.7                      | 99.1                      | 80.3                                            | 93.8           | 92.5         | 93.4                    |
| <b>Averages, 1925.....</b>                                         | 93.0                     | 105.4         | 99.8         | 95.5                      | 96.6                      | 84.9                                            | 95.4           | 95.1         | 93.6                    |
| <b>Averages, 1926<sup>1</sup>.....</b>                             | 99.6                     | 99.5          | 99.7         | 99.6                      | 99.7                      | 99.2                                            | 99.5           | 99.2         | 99.6                    |
| <b>Averages, 1927.....</b>                                         | 103.4                    | 109.3         | 107.0        | 103.8                     | 102.5                     | 109.0                                           | 106.2          | 107.4        | 104.6                   |
| <b>Averages, 1928.....</b>                                         | 110.1                    | 114.5         | 114.4        | 108.2                     | 105.9                     | 118.8                                           | 118.1          | 116.1        | 111.6                   |
| <b>Averages, 1929.....</b>                                         | 117.1                    | 125.8         | 120.1        | 120.6                     | 109.7                     | 129.7                                           | 130.3          | 126.2        | 119.0                   |
| <b>Averages, 1930.....</b>                                         | 109.0                    | 108.0         | 117.8        | 119.8                     | 104.6                     | 129.8                                           | 131.6          | 127.7        | 113.4                   |
| <b>Averages, 1931.....</b>                                         | 95.3                     | 60.1          | 107.7        | 104.7                     | 95.8                      | 131.4                                           | 124.7          | 123.6        | 102.5                   |
| <b>Averages, 1932.....</b>                                         | 84.4                     | 42.6          | 99.2         | 93.5                      | 84.7                      | 86.0                                            | 113.6          | 116.1        | 87.5                    |
| <b>1933.</b>                                                       |                          |               |              |                           |                           |                                                 |                |              |                         |
| Jan. 1.....                                                        | 74.4                     | 74.5          | 96.9         | 87.5                      | 78.3                      | 58.5                                            | 102.2          | 119.6        | 78.5                    |
| Feb. 1.....                                                        | 75.0                     | 67.3          | 94.0         | 85.7                      | 75.0                      | 56.2                                            | 104.2          | 109.4        | 77.0                    |
| Mar. 1.....                                                        | 75.8                     | 57.1          | 94.6         | 85.6                      | 74.1                      | 56.5                                            | 102.9          | 107.3        | 76.9                    |
| April 1.....                                                       | 76.0                     | 35.6          | 91.4         | 84.5                      | 74.2                      | 54.7                                            | 102.5          | 107.6        | 76.0                    |
| May 1.....                                                         | 76.8                     | 35.1          | 89.9         | 83.7                      | 75.9                      | 60.8                                            | 99.9           | 108.6        | 77.6                    |
| June 1.....                                                        | 80.0                     | 40.7          | 91.4         | 83.2                      | 79.0                      | 67.8                                            | 106.2          | 109.1        | 80.7                    |
| July 1.....                                                        | 83.0                     | 49.5          | 93.1         | 84.0                      | 80.5                      | 78.2                                            | 111.5          | 111.8        | 84.5                    |
| Aug. 1.....                                                        | 85.2                     | 48.9          | 97.4         | 83.6                      | 81.2                      | 88.4                                            | 111.8          | 110.5        | 87.1                    |
| Sept. 1.....                                                       | 86.8                     | 48.3          | 100.4        | 83.8                      | 82.5                      | 88.4                                            | 113.8          | 111.8        | 88.5                    |
| Oct. 1.....                                                        | 86.7                     | 64.7          | 105.8        | 82.5                      | 82.7                      | 97.0                                            | 108.1          | 115.0        | 90.4                    |
| Nov. 1.....                                                        | 86.5                     | 110.3         | 109.7        | 81.1                      | 81.4                      | 94.6                                            | 107.9          | 115.6        | 91.3                    |
| Dec. 1.....                                                        | 84.4                     | 166.5         | 105.5        | 81.0                      | 79.8                      | 94.6                                            | 108.8          | 119.1        | 91.8                    |
| <b>Averages, 1933.....</b>                                         | <b>80.9</b>              | <b>66.5</b>   | <b>97.5</b>  | <b>83.9</b>               | <b>79.0</b>               | <b>74.6</b>                                     | <b>106.7</b>   | <b>112.1</b> | <b>83.4</b>             |
| <b>1934.</b>                                                       |                          |               |              |                           |                           |                                                 |                |              |                         |
| Jan. 1.....                                                        | 80.0                     | 168.8         | 106.8        | 78.4                      | 76.3                      | 88.1                                            | 109.8          | 122.3        | 88.6                    |
| Feb. 1.....                                                        | 84.2                     | 174.0         | 109.4        | 76.8                      | 76.2                      | 98.0                                            | 108.7          | 111.6        | 91.4                    |
| Mar. 1.....                                                        | 86.5                     | 153.3         | 108.9        | 76.7                      | 78.0                      | 100.8                                           | 109.3          | 112.5        | 92.7                    |
| April 1.....                                                       | 88.1                     | 104.9         | 103.3        | 76.8                      | 76.9                      | 95.8                                            | 111.8          | 116.1        | 91.3                    |
| May 1.....                                                         | 90.2                     | 80.5          | 103.6        | 76.9                      | 78.5                      | 95.8                                            | 111.7          | 115.6        | 92.0                    |
| June 1.....                                                        | 93.2                     | 75.0          | 106.2        | 78.0                      | 80.3                      | 116.7                                           | 115.4          | 116.5        | 96.6                    |
| July 1.....                                                        | 93.8                     | 86.3          | 107.0        | 80.1                      | 82.6                      | 140.6                                           | 119.7          | 119.1        | 101.0                   |
| Aug. 1.....                                                        | 94.2                     | 84.5          | 110.3        | 81.2                      | 83.6                      | 129.0                                           | 123.0          | 116.5        | 99.9                    |
| Sept. 1.....                                                       | 94.3                     | 85.6          | 112.4        | 82.5                      | 83.6                      | 118.1                                           | 125.5          | 117.1        | 98.8                    |
| Oct. 1.....                                                        | 94.4                     | 113.4         | 117.9        | 81.3                      | 84.8                      | 117.0                                           | 116.2          | 120.0        | 100.0                   |
| Nov. 1.....                                                        | 92.8                     | 171.9         | 121.2        | 80.7                      | 83.9                      | 111.0                                           | 114.9          | 121.3        | 100.2                   |
| Dec. 1.....                                                        | 91.3                     | 198.6         | 122.9        | 79.8                      | 80.1                      | 100.3                                           | 115.2          | 126.0        | 98.9                    |
| <b>Averages, 1934.....</b>                                         | <b>90.2</b>              | <b>124.7</b>  | <b>110.8</b> | <b>79.1</b>               | <b>80.3</b>               | <b>109.3</b>                                    | <b>115.1</b>   | <b>117.9</b> | <b>96.0</b>             |
| Relative weights, by industries, as at Dec. 1, 1934 <sup>2</sup> . | 49.3                     | 6.0           | 6.0          | 2.3                       | 10.2                      | 13.0                                            | 2.6            | 10.6         | 100.0                   |

<sup>1</sup> Since the average for the calendar year 1926, including figures up to Dec. 31, 1926, is the base used in computing these indexes, the average index here given for the 12 months Jan. 1-Dec. 1, 1926, generally shows a slight variation from 100. <sup>2</sup> Percentages of Dominion total.



#### Subsection 4.—Unemployment Relief.

The assistance rendered by the Dominion Government under The Unemployment Relief Act, 1930, The Unemployment and Farm Relief Act, 1931, and The Relief Act, 1932, is fully set out in the Canada Year Books for the years 1931, 1932, and 1933 respectively. The recapitulation appearing at the end of this statement shows the Dominion's disbursements under those statutes as at Jan. 31, 1935.

**The Relief Act, 1933.**—The Relief Act, 1933, which received Royal Assent on Mar. 30, 1933, was enacted at the fourth session of the 17th Parliament. The administration of the Act was, by Order in Council, vested in the Minister of Labour.

Pursuant to the terms of the agreements entered into between the Dominion and the provinces, the Dominion continued under the 1933 Act to contribute to the expenditures of the provinces for direct relief, the contribution to organized municipalities being  $33\frac{1}{3}$  p.c., with equal contributions from the province and municipality concerned. In the case of unorganized territory, the Dominion continued to pay 50 p.c. of the provincial expenditures for direct relief. In the four western provinces, the Dominion also continued to contribute to the care of homeless unemployed persons, the contribution of the Dominion being 20 cents per day per individual cared for in camps and urban centres, and \$5 per month for each individual placed on a farm.

Under the agreements contributions were also made by the Dominion for approved work in connection with the construction of the Trans-Canada Highway and also for provincial roads and undertakings and work carried out by municipalities. Relief works in the National Parks were continued by the Department of the Interior, while the Department of National Defence continued to operate camps throughout the Dominion for the care of single homeless unemployed men.

The extent of the Dominion's expenditures under The Relief Act, 1933, as at Jan. 31, 1935, is indicated in the recapitulation of relief expenditures shown in Table 23 at the end of this summary.

**The Relief Act, 1934.**—At the fifth session of the 17th Parliament, The Relief Act, 1934, which received the Royal Assent on April 20, 1934, was enacted. The administration of the Act was, by Order in Council, vested in the Minister of Labour.

Under this statute the Dominion continued contributing to the direct relief expenditures of the provinces and municipalities to July 31, 1934, on a similar basis to that in effect under the Relief Act, 1933.

The agreements with the provinces under the Relief Act, 1934, provide that from July 31, to Mar. 31, 1935, the Dominion's contribution for the relief of necessitous persons be made in the form of monthly grants-in-aid. In addition to the monthly grants-in-aid, provision is made for carrying to completion with

Dominion assistance such undertakings under the 1933 agreements as had not been completed by Mar. 31, 1934, and which the province concerned has requested should be so completed. Provision is also made for continued Dominion assistance to construction on the Trans-Canada Highway.

As outlined in the Canada Year Book, 1933, agreements were completed under the provisions of the Relief Act, 1932, with all the provinces except Prince Edward Island, providing for a non-recoverable expenditure of one-third of an amount not to exceed \$600 per family for the purpose of providing a measure of relief to self-sustaining families who would otherwise be in receipt of direct relief, by placing such families on the land. It was provided that the remaining two-thirds of the expenditure should be contributed by the province and the municipality concerned. The agreements covered a period of two years and expired on Mar. 31, 1934.

Under the provisions of the Relief Act, 1934, agreements, effective from April, 1934, to Mar. 31, 1936, providing continuity of settlement with the agreements which expired Mar. 31, 1934, were entered into with all the provinces excepting Prince Edward Island and British Columbia. Provision is made in the new agreements for an additional non-recoverable contribution by the Dominion, on the recommendation of the province and with the approval of the Governor in Council, of one-third of an amount not exceeding \$100 in the case of a settler who may not be self-supporting at the end of the two-year period, and for whose subsistence expenditure during the third year of settlement is deemed necessary. This additional amount for subsistence during the third year applies where necessary both to those settled under the 1932 agreements and those settled under the 1934 agreements.

Reports received from the provinces indicate that as at Jan. 31, 1935, there have been approved and settled under both the 1932 and 1934 agreements 4,002 settler families, while the total number of individuals settled under the scheme aggregate 21,030.

In the Prairie Provinces the Dominion undertook again to provide for the placement of single homeless unemployed persons on farms and contributed to those provinces in this respect \$5 per month for each individual so placed. In addition the Dominion has agreed, under the 1934 Act, to continue contributing to certain special measures in the dried-out areas of the Prairie Provinces.

Continued operation of camps for single homeless persons by the Department of National Defence at various points throughout Canada, also the special relief works carried out in the National Parks by the Department of Interior for the care of single homeless persons and unemployed residents of the parks, are other measures being carried out by the Dominion under the provisions of the Relief Act, 1934.

Table 23 sets forth the Dominion's disbursements under relief legislation from 1930 to Jan. 31, 1935.

## 23.—Recapitulation of Dominion Disbursements under Relief Legislation as at Jan. 31, 1935.

| Province, etc.                          | 1930 Act.         | 1931 Act.         | 1932 Act.         | 1933 Act.         | 1934 Act.                         |                                      | Total.             |
|-----------------------------------------|-------------------|-------------------|-------------------|-------------------|-----------------------------------|--------------------------------------|--------------------|
|                                         |                   |                   |                   |                   | On Expenditures to Mar. 31, 1934. | On Expenditures after Mar. 31, 1934. |                    |
|                                         | \$                | \$                | \$                | \$                | \$                                | \$                                   | \$                 |
| P. E. Island.....                       | 95,199            | 135,096           | 25,099            | 87,158            | 12,135                            | 13,903                               | 368,590            |
| Nova Scotia.....                        | 836,180           | 1,084,249         | 539,816           | 1,183,955         | 77,589                            | 411,225                              | 4,133,013          |
| New Brunswick.....                      | 503,690           | 767,493           | 222,050           | 511,964           | 76,448                            | 215,647                              | 2,297,292          |
| Quebec.....                             | 3,454,742         | 5,480,649         | 4,131,988         | 3,325,587         | 4,395,576                         | 5,270,629                            | 26,059,170         |
| Ontario.....                            | 4,692,650         | 11,100,761        | 7,891,526         | 9,878,806         | 4,429,042                         | 7,477,286                            | 45,470,072         |
| Manitoba.....                           | 1,632,926         | 3,359,055         | 1,742,965         | 2,183,776         | 191,673                           | 1,518,000                            | 10,628,395         |
| Saskatchewan.....                       | 1,918,311         | 3,008,287         | 1,150,707         | 806,845           | 269,327                           | 1,472,980                            | 8,626,457          |
| Sask. Relief Commission.....            | —                 | 5,372,971         | 4,455,533         | 1,813,565         | 149,398                           | 575,598                              | 11,867,066         |
| Alberta.....                            | 1,286,432         | 3,051,242         | 1,301,925         | 1,201,675         | 313,510                           | 1,081,107                            | 8,235,891          |
| British Columbia.....                   | 1,376,317         | 3,954,424         | 3,226,996         | 2,577,570         | 872,117                           | 2,001,404                            | 14,008,828         |
| Dept. of Public Works.....              | —                 | 1,726,733         | 6,904             | —                 | —                                 | —                                    | 1,733,637          |
| Dept. of National Defence.....          | —                 | 70,936            | 423,525           | 6,204,981         | —                                 | 5,608,704                            | 12,308,147         |
| Dept. of the Interior (inc. Yukon)..... | 56,995            | 875,804           | 591,399           | 1,119,309         | —                                 | 421,929                              | 3,065,435          |
| Dept. of Railways and Canals.....       | —                 | 1,772,726         | —                 | 51,942            | —                                 | —                                    | 1,824,668          |
| Dept. of Justice.....                   | —                 | 83,181            | —                 | —                 | —                                 | —                                    | 83,181             |
| Dept. of Agriculture.....               | —                 | 7,000             | 3,000             | —                 | —                                 | —                                    | 10,000             |
| Dept. of Trade and Commerce.....        | —                 | —                 | —                 | 43,505            | —                                 | —                                    | 43,505             |
| Dept. of Finance.....                   | —                 | —                 | —                 | 37,428            | —                                 | —                                    | 37,428             |
| Nat. Battlefields Com.....              | —                 | 24,809            | —                 | —                 | —                                 | —                                    | 24,809             |
| Board of Railway Commissioners.....     | 500,000           | 500,000           | —                 | —                 | —                                 | —                                    | 1,000,000          |
| C. P. R.....                            | 863,550           | 209,197           | —                 | —                 | —                                 | —                                    | 1,072,747          |
| C. N. R.....                            | 882,412           | —                 | —                 | —                 | —                                 | —                                    | 882,412            |
| Transportation of Unemployed.....       | —                 | 45,066            | 11,513            | 16,216            | —                                 | 1,329                                | 74,124             |
| Agr. Stabilization Fund.....            | —                 | —                 | —                 | 42,968            | —                                 | —                                    | 42,968             |
| Miscellaneous.....                      | —                 | 1,833             | 3,244             | —                 | —                                 | 5,050                                | 10,127             |
| Administration.....                     | 43,062            | 85,203            | 67,576            | 84,495            | —                                 | 68,538                               | 348,874            |
| <b>Totals.....</b>                      | <b>18,142,466</b> | <b>42,716,715</b> | <b>25,795,766</b> | <b>30,671,745</b> | <b>10,786,815</b>                 | <b>26,143,329</b>                    | <b>154,256,836</b> |

## Subsection 5.—Employment and Unemployment Statistics of the Census.

In the 1933 edition of the Year Book pp. 775-780 were devoted to an examination of the preliminary figures of unemployment as reported at June 1, 1931, for that date and for the preceding twelve months. The final results of this enquiry are available in Vol. 6 of the Census Publications, which may be obtained from the King's Printer, Ottawa, at a price of 75 cents for the paper-bound volume.

Tables 24 and 25, supplementing information given by provinces at pp. 775-780 of the 1933 Year Book, summarize by industries the statistics of those actually unemployed at the date of the Census, and of time lost during the twelve months preceding that date. It will be noted in Table 25 that the unemployment was most serious in forestry, fishing and trapping, in construction and in the unspecified group, including largely general labourers.

**24.—Wage-Earners, 10 Years of Age and Over, and Numbers Not at Work on June 1, 1931, According to Industrial Group and Sex, and Percentages of Total Wage-Earners Not at Work in Each Group.**

| Industrial Group.             | Totals, Wage-Earners. |                  |                | Numbers Not at Work. |                |               | Percentages Not at Work. |              |             |
|-------------------------------|-----------------------|------------------|----------------|----------------------|----------------|---------------|--------------------------|--------------|-------------|
|                               | Total.                | Male.            | Female.        | Total.               | Male.          | Female.       | Total.                   | Male.        | Female.     |
| Agriculture .....             | 198,592               | 196,675          | 1,917          | 30,816               | 30,587         | 229           | 15.52                    | 15.55        | 11.35       |
| Forestry, fishing, trapping.. | 57,844                | 57,550           | 294            | 21,451               | 21,379         | 72            | 37.08                    | 37.15        | 24.49       |
| Mining.....                   | 68,962                | 68,610           | 352            | 22,028               | 21,981         | 47            | 31.94                    | 32.04        | 13.35       |
| Manufacturing.....            | 606,617               | 496,865          | 109,752        | 101,996              | 88,422         | 13,574        | 16.81                    | 17.80        | 12.37       |
| Electric light and power....  | 18,938                | 17,471           | 1,467          | 1,816                | 1,760          | 56            | 9.59                     | 10.07        | 3.82        |
| Construction.....             | 217,105               | 215,505          | 1,600          | 73,719               | 73,542         | 177           | 33.96                    | 34.13        | 11.06       |
| Transportation.....           | 283,675               | 260,429          | 23,246         | 39,485               | 38,021         | 1,461         | 13.92                    | 14.60        | 6.28        |
| Trade.....                    | 281,107               | 204,763          | 76,344         | 31,053               | 23,209         | 7,844         | 11.05                    | 11.33        | 10.27       |
| Finance.....                  | 82,963                | 58,102           | 24,861         | 5,240                | 3,612          | 1,628         | 6.32                     | 6.22         | 6.55        |
| Service.....                  | 585,413               | 281,118          | 304,295        | 50,769               | 29,469         | 21,300        | 8.67                     | 10.48        | 7.00        |
| Unspecified.....              | 168,881               | 165,172          | 3,709          | 91,585               | 90,091         | 1,494         | 54.23                    | 54.54        | 40.28       |
| <b>Totals.....</b>            | <b>2,570,097</b>      | <b>2,022,260</b> | <b>547,837</b> | <b>469,958</b>       | <b>422,076</b> | <b>47,882</b> | <b>18.29</b>             | <b>20.87</b> | <b>8.74</b> |

**25.—Wage-Earners, 10 Years of Age and Over, Numbers and Percentages Losing Time, and Total and Average Weeks Lost during the Period June 1, 1930 to June 1, 1931, According to Industrial Group and Sex.**

| Industrial Group.                       | Totals, Wage-Earners. |                  |                | Numbers Losing Time. |                |                | Percentages Losing Time. |              |              |
|-----------------------------------------|-----------------------|------------------|----------------|----------------------|----------------|----------------|--------------------------|--------------|--------------|
|                                         | Total.                | Male.            | Female.        | Total.               | Male.          | Female.        | Total.                   | Male.        | Female.      |
| Agriculture.....                        | 198,592               | 196,675          | 1,917          | 65,392               | 64,905         | 487            | 32.93                    | 33.00        | 25.40        |
| Forestry, fishing and trapping.....     | 57,844                | 57,550           | 294            | 39,273               | 39,134         | 139            | 67.89                    | 68.00        | 47.28        |
| Mining, quarrying, oil and salt wells.. | 68,962                | 68,610           | 352            | 45,148               | 45,047         | 101            | 65.47                    | 65.66        | 28.69        |
| Manufacturing.....                      | 606,617               | 496,865          | 109,752        | 287,633              | 237,713        | 49,920         | 47.42                    | 47.84        | 45.48        |
| Electric light and power.....           | 18,938                | 17,471           | 1,467          | 4,605                | 4,458          | 147            | 24.32                    | 25.52        | 10.02        |
| Construction.....                       | 217,105               | 215,505          | 1,600          | 152,593              | 152,193        | 400            | 70.29                    | 70.62        | 25.00        |
| Transportation and communication.....   | 283,675               | 260,429          | 23,246         | 97,377               | 93,089         | 4,288          | 34.33                    | 35.74        | 18.45        |
| Trade.....                              | 281,107               | 204,763          | 76,344         | 73,474               | 52,894         | 20,580         | 26.14                    | 25.83        | 26.96        |
| Finance, insurance..                    | 82,963                | 58,102           | 24,861         | 9,755                | 6,580          | 3,175          | 11.76                    | 11.32        | 12.77        |
| Service.....                            | 585,413               | 281,118          | 304,295        | 125,022              | 68,374         | 56,648         | 21.36                    | 24.32        | 18.62        |
| Unspecified.....                        | 168,881               | 165,172          | 3,709          | 127,207              | 125,356        | 1,851          | 75.32                    | 75.89        | 49.91        |
| <b>Totals...</b>                        | <b>2,570,097</b>      | <b>2,022,260</b> | <b>547,837</b> | <b>1,027,479</b>     | <b>889,743</b> | <b>137,736</b> | <b>39.98</b>             | <b>44.00</b> | <b>25.14</b> |

| Industrial Group.                          | Totals, Weeks Lost. |                   |                  | Average Numbers of Weeks Lost by— |              |             |                           |              |              |              |              |              |
|--------------------------------------------|---------------------|-------------------|------------------|-----------------------------------|--------------|-------------|---------------------------|--------------|--------------|--------------|--------------|--------------|
|                                            | Total.              |                   |                  | All Wage-Earners.                 |              |             | Wage-Earners Losing Time. |              |              |              |              |              |
|                                            |                     |                   |                  | Total.                            | Male.        | Female.     | Total.                    | Male.        | Female.      | Total.       | Male.        | Female.      |
| Agriculture .....                          | 1,623,357           | 1,610,002         | 13,355           | 8.17                              | 8.19         | 6.97        | 24.83                     | 24.81        | 27.42        | 24.83        | 24.81        | 27.42        |
| Forestry, fishing and trapping.....        | 959,877             | 956,497           | 3,380            | 16.59                             | 16.62        | 11.50       | 24.44                     | 24.44        | 24.32        | 24.44        | 24.44        | 24.32        |
| Mining, quarrying, oil and salt wells..... | 1,069,485           | 1,067,118         | 2,367            | 15.51                             | 15.55        | 6.72        | 23.69                     | 23.69        | 23.44        | 23.69        | 23.69        | 23.44        |
| Manufacturing.....                         | 5,966,708           | 5,028,908         | 937,800          | 9.84                              | 10.12        | 8.54        | 20.74                     | 21.16        | 18.79        | 20.74        | 21.16        | 18.79        |
| Electric light and power.....              | 89,281              | 86,627            | 2,654            | 4.71                              | 4.96         | 1.81        | 19.39                     | 19.43        | 18.07        | 19.39        | 19.43        | 18.07        |
| Construction.....                          | 3,975,059           | 3,965,829         | 9,230            | 18.31                             | 18.40        | 5.77        | 26.05                     | 26.06        | 23.08        | 26.05        | 26.06        | 23.08        |
| Transportation and communication.....      | 2,100,065           | 2,029,152         | 70,913           | 7.40                              | 7.79         | 3.05        | 21.57                     | 21.80        | 16.54        | 21.57        | 21.80        | 16.54        |
| Trade.....                                 | 1,603,293           | 1,175,643         | 427,650          | 5.70                              | 5.74         | 5.60        | 21.82                     | 22.23        | 20.78        | 21.82        | 22.23        | 20.78        |
| Finance, insurance.....                    | 237,682             | 166,361           | 71,321           | 2.86                              | 2.86         | 2.87        | 24.37                     | 25.28        | 22.46        | 24.37        | 25.28        | 22.46        |
| Service.....                               | 2,930,232           | 1,635,937         | 1,294,295        | 5.01                              | 5.82         | 4.25        | 23.44                     | 23.93        | 22.85        | 23.44        | 23.93        | 22.85        |
| Unspecified.....                           | 3,951,238           | 3,885,032         | 66,206           | 23.40                             | 23.52        | 17.85       | 31.06                     | 30.99        | 35.77        | 31.06        | 30.99        | 35.77        |
| <b>Totals.....</b>                         | <b>24,506,280</b>   | <b>21,607,109</b> | <b>2,899,171</b> | <b>9.54</b>                       | <b>10.68</b> | <b>5.29</b> | <b>23.85</b>              | <b>24.28</b> | <b>21.05</b> | <b>23.85</b> | <b>24.28</b> | <b>21.05</b> |



## Section 10.—Old Age Pensions.

**The Old Age Pensions Act, 1927.**—Legislation respecting Old Age Pensions (R.S.C., 1927, c. 156) was adopted by the Dominion Parliament in 1927. Under the provisions of this statute the Dominion Government reimbursed each province participating in the Dominion scheme to the extent of one-half of the provincial expenditure for old age pensions. An amendment passed at the 1931 session of Parliament (c. 42, Statutes of 1931) provided that the Dominion contribution to the provinces be increased from 50 p.c. to 75 p.c. of the provincial disbursements for old age pensions pursuant to a provincial statute authorizing and providing for the payment of such pensions to the persons and under the conditions specified in the Act and the regulations made thereunder. Following the enactment of the amendment to the Dominion Act, the Dominion Old Age Pensions Regulations were revised and agreements negotiated with the provinces whereby the Dominion contribution of 75 p.c. of provincial disbursements was made effective from Nov. 1, 1931; the provinces have since been reimbursed on this basis.

Sec. 5 of the Act provides that before any such agreement is made with the province, the scheme for the administration of pensions proposed to be adopted by the province shall be approved by the Governor in Council, and that no change in such scheme shall be made without the consent of the Governor in Council.

Sec. 8 reads as follows:—

- (1) Provision shall be made for the payment of a pension to every person who, at the date of the proposed commencement of the pension:—
- (a) is a British subject, or, being a widow, was such before her marriage;
  - (b) has attained the age of seventy years;
  - (c) has resided in Canada for the twenty years immediately preceding the date aforesaid;
  - (d) has resided in the province in which the application for pension is made for the five years immediately preceding the said date;
  - (e) is not an Indian as defined by the Indian Act;
  - (f) is not in receipt of an income of as much as three hundred and sixty-five dollars (\$365) a year, and
  - (g) has not made any voluntary assignment or transfer of property for the purpose of qualifying for a pension.
- (2) The receipt of a pension shall not by itself constitute a disqualification from voting at any provincial or municipal election.

Sec. 9 provides that the maximum pension payable shall be \$240 yearly, subject to reduction by the amount of the income of the pensioner in excess of \$125 a year. The pension authority may accept a transfer of the pensioner's interest in a dwelling house in which he resides, in which case the value of the dwelling will not be computed in calculating the amount of pension payable. The pension authority is entitled to recover out of the estate of any deceased pensioner the amount of pension payments with interest at 5 p.c., subject to the limitation that no claims shall be made for such recovery out of any part of the estate which passes by will or intestacy to any other pensioner or to any other person who has contributed, since the grant of the pension or for the last three years during which the pension has been paid, to the pensioner's support.

Secs. 10, 12, 13 and 14 provide for the distribution of the pension burden among the provinces where the pensioner has resided during the 20 years immediately preceding the grant of the pension. Sec. 11 provides for a reduction of pension where a pensioner has resided for a portion of the 20 years in a province with which no agreement is in force. Sec. 15 provides for a suspension of the pension where a pensioner has transferred his residence to some place out of Canada. It is provided by Sec. 16 that a pension shall not be subject to alienation or transfer by the pensioner or to seizure in satisfaction of any claim against him.

The Governor in Council was empowered by Sec. 19 of the Act to make regulations pursuant to this section. Existing regulations were revised and approved by an Order in Council dated Feb. 1, 1932.

During 1933 the provinces of Prince Edward Island and Nova Scotia entered into agreements with the Dominion Government whereby old age pensions became payable in Prince Edward Island as from July 1, 1933, and in Nova Scotia as from Mar. 1, 1934. The Dominion Old Age Pensions Act is now operative in seven of the nine provinces, namely—Alberta, British Columbia, Manitoba, Nova Scotia, Ontario, Prince Edward Island and Saskatchewan, as well as in the Northwest Territories.

The New Brunswick Legislature, at its 1930 session, passed an Old Age Pensions Act, to come into force on a day to be fixed by proclamation. The Gold Commissioner of Yukon was given authority, by a Yukon Territorial Council Ordinance passed in 1927, to enter into an agreement with the Dominion Government for the purpose of obtaining the benefit of the Old Age Pensions Act for residents in the territory. No proposed scheme of administration for adoption in Yukon has been submitted for the approval of the Governor in Council. At present Quebec is the only province which has not enacted old age pensions legislation and, under the terms of the Dominion Act, is therefore ineligible to enter into agreement with the Dominion Government to obtain the benefit of the provisions of the Dominion Act.

Table 26 is a financial summary of old age pensions in Canada as at the end of the calendar year 1934. The total payments in the last quarter of that year were \$5,825,099.

**26.—Financial Summary of Old Age Pensions in Canada, by Provinces, as at Dec. 31, 1934.**

| Item.                                                                                                      | Alberta.<br>—<br>Act<br>effective<br>Aug. 1,<br>1929. | British<br>Columbia.<br>—<br>Act<br>effective<br>Sept. 1,<br>1927. | Manitoba.<br>—<br>Act<br>effective<br>Sept. 1,<br>1928. | Nova<br>Scotia.<br>—<br>Act<br>effective<br>Mar. 1,<br>1934. | Ontario.<br>—<br>Act<br>effective<br>Nov. 1,<br>1929. |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------|
| Total numbers of pensioners as at Dec. 31, 1934.....                                                       | 6,947                                                 | 8,893                                                              | 9,995                                                   | 11,970                                                       | 48,899                                                |
| Average monthly pensions.....\$                                                                            | 17.69                                                 | 19.29                                                              | 18.61                                                   | 14.40                                                        | 18.42                                                 |
| Percentages of pensioners to total population <sup>1</sup> .....                                           | 0.90                                                  | 1.23                                                               | 1.37                                                    | 2.27                                                         | 1.37                                                  |
| Percentages of persons over 70 years of age to total population <sup>1</sup> .....                         | 2.16                                                  | 3.37                                                               | 2.81                                                    | 5.02                                                         | 4.31                                                  |
| Percentages of pensioners to population over 70 years of age <sup>1</sup> .....                            | 41.80                                                 | 36.43                                                              | 48.52                                                   | 45.29                                                        | 31.78                                                 |
| Total amounts of pensions paid by provinces from inception of Old Age Pensions Act to Dec. 31, 1934.....\$ | 5,259,775                                             | 9,469,554                                                          | 10,044,150                                              | 1,538,865                                                    | 45,363,652                                            |
| Dominion Government's shares of expenditure.....\$                                                         | 3,581,407                                             | 6,071,793                                                          | 6,559,038                                               | 1,154,149                                                    | 30,061,366                                            |

| Item.                                                                                                      | Prince<br>Edward<br>Island.<br>—<br>Act<br>effective<br>July 1,<br>1933. | Saskat-<br>chewan.<br>—<br>Act<br>effective<br>May 1,<br>1928. | Northwest<br>Terri-<br>tories.<br>—<br>Order in<br>Council<br>effective<br>Jan. 25,<br>1929. | Total.     |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------|
| Total numbers of pensioners as at Dec. 31, 1934.....                                                       | 1,496                                                                    | 9,904                                                          | 7                                                                                            | 98,111     |
| Average monthly pensions.....\$                                                                            | 9.91                                                                     | 16.30                                                          | 18.98                                                                                        | —          |
| Percentages of pensioners to total population <sup>1</sup> .....                                           | 1.68                                                                     | 1.02                                                           | 0.07                                                                                         | —          |
| Percentages of persons over 70 years of age to total population <sup>1</sup> .....                         | 6.38                                                                     | 2.10                                                           | 0.89                                                                                         | —          |
| Percentages of pensioners to population over 70 years of age <sup>1</sup> .....                            | 26.34                                                                    | 48.71                                                          | 7.86                                                                                         | —          |
| Total amounts of pensions paid by provinces from inception of Old Age Pensions Act to Dec. 31, 1934.....\$ | 225,181                                                                  | 9,195,300                                                      | 7,775                                                                                        | 81,104,253 |
| Dominion Government's shares of expenditure.....\$                                                         | 168,886                                                                  | 6,020,614                                                      | 7,775                                                                                        | 53,625,027 |

<sup>1</sup>Percentage figures based on estimated population for 1934, furnished by Dominion Bureau of Statistics.

## Section 11.—The Co-operative Movement in Canada.

A general article on "The Co-operative Movement in Canada" appeared at pp. 704-720 of the 1925 edition of the Year Book under the three sub-headings of "Consumers' Co-operation", "Co-operative Credit", and "Producers' Co-operation".\* Because of the pressure upon space, this article is not reprinted here, but a digest of the latest available material on each of these three sub-divisions of co-operation follows, the presentation of producers' co-operation being confined to that among agricultural producers.

### Subsection 1.—Consumers' Co-operation.

The co-operative store was first introduced into Canada by miners who had had experience of co-operation in the United Kingdom. The first co-operative store was opened at Stellarton, N.S., in 1861, and continued to do business until 1916. Many similar ventures were afterwards commenced, but a considerable number failed through their neglect to build up adequate reserve funds. In 1909 the Co-operative Union of Canada was formed, with six affiliated societies and 1,595 members; since October, 1909, it has published a monthly, *The Canadian Co-operator*, from which the following statistics (Table 27) showing the growth of consumers' co-operation in the societies affiliated with the Co-operative Union have been taken.†

\*The article referred to above was prepared for the Year Book by Miss Margaret Mackintosh, M.A., of the Department of Labour, Ottawa.

†For details regarding the Co-operative Union of Canada and its activities, see the 1925 Year Book, pp. 708-709.

### 27.—Statistics of Co-operative Societies Affiliated with the Co-operative Union of Canada, 1909-33.

NOTE.—No data are available for the year 1916.

| Year.    | Societies. | Members.            | Share and<br>Loan<br>Capital. | Reserve<br>Funds. | Stock<br>in Trade. | Other<br>Assets. | Sales.    | Net<br>Profits. | Purchase<br>Dividends<br>Paid. |
|----------|------------|---------------------|-------------------------------|-------------------|--------------------|------------------|-----------|-----------------|--------------------------------|
|          | No.        | No.                 | \$                            | \$                | \$                 | \$               | \$        | \$              | \$                             |
| 1909.... | 6          | 1,595               | 38,460                        | 11,090            | 53,820             | 40,882           | 347,064   | —               | 22,828                         |
| 1910.... | 9          | 2,605               | 97,965                        | 19,994            | 123,946            | 85,572           | 569,311   | 36,596          | 28,235                         |
| 1911.... | 12         | 3,788               | 143,781                       | 25,070            | 168,895            | 102,903          | 789,292   | 44,535          | 47,338                         |
| 1912.... | 17         | 5,000               | 178,126                       | 31,806            | 191,122            | 172,658          | 1,194,065 | 88,782          | 67,256                         |
| 1913.... | 17         | 5,822               | 166,051                       | 42,498            | 205,300            | 183,220          | 1,424,985 | 78,399          | 63,442                         |
| 1914.... | 14         | 5,810               | 166,307                       | 36,219            | 181,867            | 129,022          | 1,133,081 | 73,490          | 63,881                         |
| 1915.... | 8          | 3,239               | 143,319                       | 21,118            | 94,672             | 109,911          | 657,006   | 53,270          | 47,995                         |
| 1917.... | 13         | 4,673               | 248,253                       | 27,941            | 205,899            | 145,732          | 1,264,247 | 91,079          | 82,287                         |
| 1918.... | 12         | 4,746               | 301,368                       | 38,257            | 252,821            | 169,545          | 1,488,541 | 123,363         | 115,969                        |
| 1919.... | 15         | 6,306               | 360,834                       | 47,463            | 370,676            | 205,222          | 2,132,726 | 156,870         | 138,216                        |
| 1920.... | 20         | 7,427               | 394,471                       | 40,419            | 368,090            | 206,625          | 1,465,253 | 165,904         | 157,424                        |
| 1921.... | 14         | 5,919               | 374,996                       | 39,001            | 280,968            | 243,397          | 1,190,765 | 154,713         | 144,512                        |
| 1922.... | 12         | 6,552               | 450,996                       | 94,781            | 251,855            | 286,223          | 2,166,196 | 157,321         | 138,762                        |
| 1923.... | 7          | 4,646               | 381,656                       | 97,591            | 232,294            | 286,847          | 2,249,380 | 172,972         | 140,991                        |
| 1924.... | 14         | 7,047               | 516,909                       | 94,856            | 271,713            | 445,071          | 2,675,852 | 212,493         | 183,986                        |
| 1925.... | 16         | 7,308               | 512,808                       | 151,791           | 351,732            | 484,042          | 2,792,872 | 158,140         | 118,945                        |
| 1926.... | 20         | 7,804               | 616,431                       | 208,449           | 426,937            | 660,930          | 3,358,162 | 230,535         | 165,062                        |
| 1927.... | 24         | 8,914               | 673,827                       | 228,504           | 554,101            | 778,508          | 4,481,574 | 283,777         | 227,733                        |
| 1928.... | 33         | 74,836              | 3,905,813                     | 2,523,646         | 1,103,323          | 13,305,918       | 8,147,967 | 1,057,581       | 252,976                        |
| 1929.... | 41         | 10,648 <sup>1</sup> | 769,755                       | 484,864           | 663,476            | 1,006,628        | 5,030,560 | 238,302         | 238,302                        |
| 1930.... | 38         | 10,462              | 693,561                       | 362,127           | 617,538            | 1,124,572        | 4,826,642 | 243,884         | 195,178                        |
| 1931.... | 37         | 8,404               | 595,617                       | 460,798           | 461,022            | 1,069,167        | 3,667,240 | 193,348         | 161,435                        |
| 1932.... | 38         | 11,278              | 723,386                       | 590,427           | 490,344            | 1,270,479        | 4,007,473 | 145,121         | 117,710                        |
| 1933.... | 45         | 10,735              | 680,524                       | 537,548           | 1,019,233          | 3,487,770        | 3,477,483 | 413,626         | 83,942                         |

<sup>1</sup> The decrease in membership is accounted for by the withdrawal of the United Farmers of Canada, Saskatchewan Section, Ltd., and the United Grain Growers, Ltd., the non-inclusion of the latter society being also mainly responsible for the decreases in the figures shown in the remaining columns.

The progress shown by the returns from the societies affiliated with the Co-operative Union does not represent the whole growth of the consumers' co-operative movement in Canada. Although the societies affiliated with the Co-operative Union are among the oldest and best established, there is a larger number of consumers' co-operative societies outside the Union than within it, the great majority of these being in the western provinces. In 1926, the Manitoba Co-operative League was organized to link up the co-operative societies in that province, and a similar organization was formed in Alberta in 1923. In Saskatchewan a conference of representatives of co-operative societies has been held annually since 1923.

### Subsection 2.—Co-operative Credit in Quebec.

A form of co-operation which has achieved great success is that which provides short-term credit for small farmers and industrial workers in the province of Quebec. In 1900, what are known as "Les Caisses Populaires", or People's Banks, were begun with the establishment, by the late Alphonse Desjardins, of La Caisse Populaire at Lévis. M. Desjardins adopted the principles of lending money only for approved purposes to carefully selected members in a restricted area, of limited liability, of withdrawable shares of small amount payable by instalments, and of distribution of profits. These banks are for the most part established in agricultural districts. Loans are made to purchase agricultural implements at cash prices, to increase farm live stock, to improve farm buildings, to tide over a period of depression, to pay off a merchant and for various similar purposes. The loans, though comprised within the term "short credit", are for longer periods than are usual in ordinary commercial transactions because agricultural operations necessarily extend over longer periods than those of trade. They may be for 12, 15, or even 24 months, because they must give time for the farmer to realize on his products.

Details of organization may be found in the Statistical Year Book of Quebec, in the 1933 edition of which may be found statistics of the system as a whole, together with complete information of the working of each individual bank, including such details as number of members and depositors, rates of interest paid, loans made and profits realized, classification of size of loans, receipts and expenses and a résumé of chief operations from 1915 to 1932.

Table 28 shows the progress of these banks by quinquennial years from 1915 to 1930 and annually since then.

28.—Progress of Co-operative People's Banks in Quebec, 1915-33.

| Year.     | Banks Reporting. | Members. | Depositors. | Borrowers. | Loans Granted. | Value of Loans Granted. | Profits Realized. |
|-----------|------------------|----------|-------------|------------|----------------|-------------------------|-------------------|
|           | No.              | No.      | No.         | No.        | No.            | \$                      | \$                |
| 1915..... | 91               | 23,614   | 13,696      | 6,728      | 8,983          | 1,483,160               | 89,893            |
| 1920..... | 113              | 31,752   | 26,238      | 9,213      | 15,390         | 4,341,544               | 311,323           |
| 1925..... | 122              | 33,279   | 33,527      | 9,384      | 13,682         | 3,909,790               | 449,531           |
| 1930..... | 179              | 45,767   | 44,940      | 14,278     | 18,857         | 3,724,537               | 645,096           |
| 1931..... | 174              | 43,641   | 43,207      | 13,240     | 16,203         | 2,998,046               | 594,235           |
| 1932..... | 168              | 40,933   | 40,201      | 12,363     | 13,283         | 2,157,886               | 531,765           |
| 1933..... | 162              | 36,470   | 37,683      | 10,784     | 11,407         | 1,682,551               | 452,220           |



**Subsection 3.—Agricultural Co-operation in Canada in 1933.\***

Co-operative organization forms an integral part of the economic fabric of Canadian agriculture. The activities of the larger organizations such as the wheat pools, live-stock and fruit co-operatives have reached a high stage of development, and have received world-wide recognition. In addition to these are hundreds of comparatively small organizations which are working quietly and effectively to serve local areas.

Available statistics show 687 co-operative associations actively engaged in business in 1933. Approximately 100 community halls which were listed in former reports are not included in this summary of farmers' business organizations. The 687 associations have 2,585 branches which combined make a total of 3,272 places of business engaged in the marketing of farm products and the purchase of supplies for farmers. The shareholders and members financially interested number 342,692 and patrons reported total 373,650. Combined assets total \$104,232,049 with plant and equipment valued at \$37,164,607. The total actual investment of member shareholders in capital stock amounts to \$8,686,504 and reserves and surplus total \$39,560,830. Sales of farm products for the year under review amounted to \$125,126,594. The sales value of supplies handled totalled \$7,318,734, and other receipts \$131,398, which, combined, means a total business of \$132,576,726.

Available records indicate that the most important early activity of farmers in the field of co-operation in Canada was directed toward the marketing of farm products. Such bodies to-day outnumber farmers' purchasing associations by 10 to 1. In comparing the volume of business, marketing associations transact twenty times the business handled by purchasing agencies. Membership in the co-operative marketing associations is given as 292,854 persons compared with 28,266 members in purchasing organizations.

Within the marketing group the grain and seed co-operatives which include the wheat pools of Western Canada have the largest membership and investment, and exceed all other commodity groups in volume of business, which is estimated at \$94,912,237 for the year under review. A membership of 169,475 grain growers contributed to this business through 2,146 co-operative marketing agencies. Mainly through deductions from the selling price of their grain, these members have invested a sum of \$36,186,498 in their business and in addition have paid up \$3,342,929 in share capital. Combined assets total \$88,881,252.

Eighty-two dairy co-operatives with 112 depots in Canada reported a membership of 27,499 with assets valued at \$3,695,217. Paid-up share capital amounts to \$1,674,534 with reserves of \$610,455. Sales of dairy products totalled \$10,126,259 for the year under review.

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\* Statistics contained in this review are based on records received by the Economics Branch, Department of Agriculture, in 1934, covering the business year of 1933.

The records for 57 live-stock shipping and marketing associations show a combined membership of 40,877. Financing of these associations is mainly by membership fees and commissions. Assets are comparatively low with value of plant and equipment amounting to \$567,451. This accommodated a business of \$9,044,302. The live-stock co-operatives undertake very little processing of their product. Their main activity is the assembling of live stock in cars at producing points for shipment to central markets.

A large part of the fruit and vegetable crop is marketed through 114 co-operative agencies with a combined membership of 10,875 fruit growers. Assets for all companies total \$3,129,724, which are supported by reserves of \$700,873. Sales of fruits and vegetables during the year amounted to \$6,098,283 which, together with supplies purchased and other receipts, gave a total business of \$7,241,931.

Poultry producers have organized in each of the provinces to sell their products co-operatively. There were 25 associations with 196 places of business which reported a membership of 33,479 members. Assets amount to \$408,528 with reserves of \$165,088. Sales for the year amounted to \$2,041,452.

Practically all the wool marketed co-operatively in Canada is handled by the Canadian Co-operative Wool Growers Ltd. The company operates in each province through the medium of 18 sheep-breeders' and wool-growers' associations. The co-operative stores, grades and markets the wool received from its 6,500 patrons. In addition, it carries on advertising and educational work and handles materials and supplies for its members. The quantity of wool handled by the co-operative during the year amounted to 4,240,000 pounds.

In Ontario and Quebec, the honey producers are organized co-operatively with a combined membership of approximately 1,600 members. The Ontario Honey Producers Co-operative Ltd. markets approximately 4 million pounds of honey annually. Three tobacco co-operatives in Ontario, two in the province of Quebec and one in British Columbia report a total membership of 1,009 and sales of approximately a quarter of a million dollars for 1933. The *Producteurs de Sucre et Sirop d'Erable de Québec*, with a membership of 1,982, is organized on a co-operative basis. During the year under review the sales value of maple products marketed by this association amounted to \$287,260.

Available statistics show 327 associations are organized for the purpose of purchasing farm supplies and merchandise on the co-operative plan. These consumer associations, of which over one-half are established in the province of Saskatchewan, have a combined membership of 28,266. The sales value of supplies purchased during the year, by associations organized exclusively for the handling of supplies, amounted to \$5,584,675. In five of the provinces co-operative wholesale buying societies purchase goods for their shareholder associations.

For further information see Table 29.

29.—Farmers' Co-operative Business Organizations in Canada, 1933.<sup>1</sup>  
PROVINCIAL GROUPING.

| Province or Function and Commodity. | Places of Business. <sup>2</sup> |              | Shareholders.  | Patrons.       | Total Assets.      | Value of Plant.   | General Liabilities. | Paid-up Share Capital. | Reserves and Surplus. | Sales of farm Products. | Sales of Supplies. | Other Receipts. | Total Volume of Business. |
|-------------------------------------|----------------------------------|--------------|----------------|----------------|--------------------|-------------------|----------------------|------------------------|-----------------------|-------------------------|--------------------|-----------------|---------------------------|
|                                     | No.                              | No.          |                |                |                    |                   |                      |                        |                       |                         |                    |                 |                           |
| Prince Edward Island.....           | 14                               | 63           | 10,988         | 9,497          | 120,084            | 41,303            | 119,249              | 14,337                 | -13,502               | 1,129,799               | 153,705            | -               | 1,283,504                 |
| Nova Scotia.....                    | 50                               | 180          | 5,203          | 8,029          | 1,217,943          | 535,090           | 694,655              | 363,911                | 158,977               | 1,198,366               | 586,110            | 41,087          | 1,825,563                 |
| New Brunswick.....                  | 22                               | 39           | 3,974          | 10,074         | 266,221            | 69,781            | 1,984,050            | 73,492                 | 73,492                | 1,418,692               | 338,839            | -               | 757,531                   |
| Quebec.....                         | 127                              | 137          | 11,508         | 11,508         | 3,060,768          | -                 | 1,394,229            | 2,057,077              | 440,110               | 2,775,821               | -                  | -               | 2,775,821                 |
| Ontario.....                        | 110                              | 121          | 35,491         | 43,729         | 2,567,149          | 1,189,003         | 3,297,584            | 1,057,077              | 415,843               | 8,722,454               | 2,017,188          | 22,060          | 11,554,527                |
| Manitoba.....                       | 45                               | 248          | 44,442         | 40,729         | 3,784,382          | 565,888           | 22,535,658           | 991,509                | 24,498,842            | 50,625,082              | 4,040,865          | 14,348          | 9,177,667                 |
| Saskatchewan.....                   | 198                              | 1,393        | 125,600        | 133,900        | 48,018,206         | 18,595,652        | 22,535,658           | 270,653                | 10,066,056            | 26,964,528              | 1,666,444          | 19,603          | 52,311,129                |
| Alberta.....                        | 40                               | 487          | 17,896         | 62,213         | 22,965,122         | 7,555,169         | 12,611,413           | 1,727,755              | 879,464               | 6,934,006               | 731,077            | 5,198           | 27,700,803                |
| British Columbia.....               | 75                               | 57           | 11,910         | 13,402         | 3,718,577          | 1,238,178         | 1,111,358            | 1,727,755              | 879,464               | 6,934,006               | 1,244,144          | 16,244          | 8,194,394                 |
| Interprovincial.....                | 6                                | 497          | 36,180         | 40,556         | 18,213,517         | 7,410,573         | 12,169,586           | 3,274,586              | 2,769,345             | 16,872,567              | 140,362            | 12,558          | 17,025,787                |
| <b>Totals, Canada.....</b>          | <b>687</b>                       | <b>3,272</b> | <b>342,692</b> | <b>373,650</b> | <b>104,232,049</b> | <b>37,164,607</b> | <b>55,992,518</b>    | <b>8,686,504</b>       | <b>39,560,830</b>     | <b>125,126,594</b>      | <b>7,318,734</b>   | <b>131,398</b>  | <b>132,576,726</b>        |

FUNCTIONAL AND COMMODITY GROUPING.

|                                  |                            |       |         |         |             |             |            |            |            |                       |                       |           |             |                       |
|----------------------------------|----------------------------|-------|---------|---------|-------------|-------------|------------|------------|------------|-----------------------|-----------------------|-----------|-------------|-----------------------|
| Marketing—                       | Dairy products.....        | 82    | 112     | 27,499  | 41,653      | 3,695,217   | 1,284,946  | 1,410,228  | 1,674,534  | 610,455               | 10,126,259            | 177,138   | 24,397      | 10,327,704            |
|                                  | Fruits and vegetables..... | 102   | 114     | 10,875  | 9,221       | 3,129,724   | 1,378,792  | 1,584,692  | 844,159    | 700,873               | 6,098,283             | 1,081,278 | 62,370      | 7,241,931             |
|                                  | Live stock.....            | 57    | 283     | 40,877  | 49,949      | 892,235     | 567,451    | 180,495    | 688,644    | 43,086                | 8,757,187             | 280,162   | 6,963       | 9,041,302             |
|                                  | Poultry.....               | 25    | 196     | 33,479  | 22,688      | 408,528     | 41,875     | 205,372    | 38,068     | 165,088               | 2,041,452             | 1,933     | 2,043,385   |                       |
|                                  | Seed and grain.....        | 31    | 2,146   | 169,475 | 168,957     | 88,881,252  | 32,889,811 | 49,351,820 | 3,342,929  | 36,186,498            | 94,795,694            | 116,048   | 94,912,237  |                       |
|                                  | Wool.....                  | 1     | 18      | 2,124   | 6,500       | 297,584     | 79,278     | 45,310     | 115,110    | 137,164               | 746,806               | 495       | 815,163     |                       |
|                                  | Honey.....                 | 2     | 2       | 1,006   | 612         | 102,515     | 8,507      | 61,876     | 35,238     | 5,401                 | 237,715               | 22,091    | 259,806     |                       |
|                                  | Tobacco.....               | 6     | 6       | 1,009   | 860         | 669,397     | 16,711     | 342,904    | 106,046    | 220,447               | 262,652               | —         | 262,652     |                       |
|                                  | Maple sugar.....           | 1     | 1       | 1,982   | 1,982       | 300,372     | 178,388    | 56,844     | 65,140     | 65,140                | 287,260               | —         | 287,260     |                       |
|                                  | Miscellaneous.....         | 28    | 28      | 3,928   | 3,902       | 1,939,112   | 31,197     | 1,359,556  | 289,631    | 289,925               | 1,276,820             | —         | 1,276,820   |                       |
|                                  | Totals, Marketing.....     | 335   | 2,906   | 292,854 | 306,324     | 100,315,936 | 36,298,568 | 54,720,646 | 7,171,203  | 38,424,087            | 124,630,218           | 1,734,059 | 107,073     | 126,471,350           |
|                                  | Purchasing.....            | 327   | 330     | 28,266  | 45,651      | 3,018,685   | 471,649    | 784,458    | 1,117,097  | 1,124,933             | 498,376               | 5,584,675 | 19,717      | 6,100,768             |
|                                  | Miscellaneous.....         | 24    | 24      | 1,572   | 1,075       | 73,826      | 20,410     | 12,580     | 36,495     | 24,751                | { distributed above } | —         | 4,608       | { distributed above } |
| United Farmers Co-operative..... | 1                          | 12    | 20,000  | 20,000  | 823,602     | 373,980     | 474,834    | 361,709    | —12,941    | { distributed above } | —                     | —         | —           |                       |
| Totals, Canada.....              | 687                        | 3,272 | 342,692 | 373,650 | 104,232,049 | 37,164,607  | 55,992,518 | 8,686,504  | 39,560,830 | 125,126,594           | 7,318,734             | 131,398   | 132,576,726 |                       |

<sup>1</sup> Preliminary, subject to revision.

<sup>2</sup> Exclusive of approximately 100 community halls listed in former reports.

## Section 12.—Labour Legislation in Canada in 1933 and 1934.

A summary of labour legislation in force in Canada on Dec. 31, 1928, was given in the Canada Year Book for 1929 at pp. 755-762. The Year Book for each subsequent year contained a summary of the labour laws enacted in the previous year. Labour laws enacted in Canada in 1933 and 1934 are published in the Reports on Labour Legislation in Canada for those years issued by the Department of Labour. A summary of the principal enactments is given below.

**Dominion Labour Legislation.** The Relief Act, 1933, empowered the Governor General in Council to enter into agreements with the provinces respecting relief measures; to make loans to, and guarantee payment of money by provinces or public corporations and undertakings; when Parliament is not in session to take the necessary measures to maintain peace, order, and good government and to maintain the credit and financial position of the Dominion or of any province. In particular, the Governor in Council might provide for special relief in the National Parks and elsewhere and assist financially in the sale of primary products. The amount payable for direct relief was limited to \$20,000,000 for the year ending Mar. 31, 1934. The Relief Act, 1934, was generally similar to the 1933 Statute but did not provide for defraying the cost of the distribution of natural products. Provision was also made for the payment of the Dominion's proportion of any direct relief accounts in excess of the aforementioned \$20,000,000 received subsequent to the expiration of the Act of 1933 on Mar. 31, 1934, and up to July, 1935.

In 1934, Parliament revised the law relating to shipping. The new Canada Shipping Act, which will come into force on Proclamation, incorporates numerous sections of the old Act, the Merchant Shipping Act of the United Kingdom and the Safety of Life at Sea and Load Line Conventions Act, 1931. Sections added to the Canada Shipping Act to put into effect draft conventions of the International Labour Conference have also been included. Among these were sections added in 1933 to implement the draft conventions regarding the protection of workers loading and unloading ships and the marking of the weight on heavy packages. These sections had not been put in force. The draft conventions covering Seamen's Articles of Agreement and the Repatriation of Seamen have been enacted for the first time.

The Technical Education Act, 1934, extends for five years the time within which the unexpended portion of the ten million dollars appropriated under the Act of 1919 may remain available for those provinces which have not yet used up their share of the money.

An amendment to the Criminal Code amends the law on picketing by providing that attending at or near any premises in order merely to obtain or communicate information, shall not be deemed to be watching or besetting within the meaning of the section. This clause was enacted in Canada in 1876, but was omitted from the Criminal Code in 1892.

**Provincial Labour Legislation.**—Provision for the protection of miners in New Brunswick was made for the first time in 1933 by an amendment to the Mining Act which establishes an eight-hour day for underground workmen and forbids the employment of boys under 16 below ground. A person in charge of a working face must be at least 18 years of age and must have a miner's certificate. Inspection is provided for and regulations may be made for the safety of persons employed.



In Saskatchewan, new safety regulations for coal mines were issued in 1933. In 1934, a Mines Regulation Act was passed relating to other mines including quarries and oil and gas wells.

In 1934 the Industrial Establishments Act of Quebec was amended to cover shops, and the section prohibiting the employment of children under 14 now applies not only to factories and shops but also to theatres, hotels, restaurants, telegraph offices and to messenger services. The normal working day of women and persons under 18 in industrial establishments must now end at 6 p.m. instead of 9 p.m. Hours for women and young persons under 18, in shops in cities and towns of over 10,000 population, may not exceed 60 per week except during the two weeks preceding New Year's Day and when permitted by the inspector. Working hours must fall between 7 a.m. and 11 p.m. except on the days preceding Christmas Day, New Year's Day, and Easter Sunday, when work must cease at 10 p.m. Where the inspector permits overtime in factories or shops, the maximum working hours for women and young persons are 65 instead of 72 as formerly.

The Ontario Factory, Shop and Office Building Act was amended in 1934 to reduce the maximum working week of 60 hours for men in bakeshops to 56 hours. Overtime and Sunday work are restricted. Except by special permit, employees working more than 9 hours during any work period or in any consecutive 24 hours, must be given at least 24 hours rest before resuming work.

The Quebec Hours of Work Act, 1933, authorizes the Lieutenant-Governor in Council to fix hours for workers in industries not subject to competition from other countries or provinces. Working hours may not be less than 6 per day or 33 per week, so that as far as possible work may be assured for two or more shifts. Exemptions may be allowed for preparatory, complementary or urgent work. Two orders have been issued under the Act fixing a 40-hour week or two shifts of 36 hours each for the building trades in the Montreal and Quebec districts and in the Eastern Townships.

The British Columbia Hours of Work Act, 1934, which came into force on June 14, 1934, revises a somewhat similar statute of 1933. The new law, like the Female Minimum Wage Act, 1934, is administered by the Board of Industrial Relations appointed under the Male Minimum Wage Act. The Act, like its predecessor, provides for an 8-hour day and 48-hour week in industrial undertakings, and empowers the Lieutenant-Governor in Council to add to or withdraw from the Act the whole or any branch of any industry, trade or occupation.

Under a 1934 amendment to the Saskatchewan Fire Departments Two-Platoon Act, a weekly rest of 24 hours may be given to fire department employees in cities of 10,000 or more, if a by-law to that effect is approved by the electors.

In Manitoba the One Day's Rest in Seven Act was amended in 1934 to apply to all hotels and restaurants.

The Public Vehicle Act of Prince Edward Island was amended in 1933 to forbid drivers of commercial vehicles being employed as such for more than 10 hours in 24.

Amendments to the Manitoba Fair Wage Act of 1916 widen the scope of the Act to include not only provincial public works but also private building and construction work of more than \$100 value in towns with a population exceeding 2,000. Work done by an owner or tenant, if not with a view to sale or rental, is not within the scope of the Act. The Lieutenant-Governor in Council may extend the territory to which the Act applies.

A new Male Minimum Wage Act was passed in British Columbia in 1934 to apply to adult male employees in any industry or occupation except farm labourers and domestic servants. The Act, which provides for a Board of Industrial Relations, is drafted along the lines of the Women's Minimum Wage Acts of the various provinces and empowers the Board to fix minimum wages, with special provision for certain classes of employees, such as young or handicapped workers.

A new British Columbia Female Minimum Wage Act replaces the Act of 1918 and is administered by the Board of Industrial Relations. A new clause stipulates that, where a minimum wage has been fixed for female employees, no person may employ, on work usually done by such employees, any male person over 18 years of age at a wage less than the fixed minimum, except male apprentices whose indentures have been approved by the Board; nor may boys under 18 be employed at such work at less wages.

The Women's Minimum Wage Act of Quebec was amended in 1933 to provide that employers might be required by Order in Council to keep registers of the names, ages and places of residence of their female employees and information as to their wages and working hours. An Order in Council of this sort was issued during the year. In 1934, the Act was amended to prohibit any male worker being employed on work ordinarily performed by women at a less wage than that fixed for the female employees.

The Ontario Minimum Wage Act was amended in 1934 to provide that where a minimum wage is established, the number of hours per week for which such wage is paid may not exceed 48 in municipalities with a population of over 50,000 or 50 in municipalities of from 10,000 to 50,000, or 54 in other municipalities. If the prevailing weekly hours in any industry or employment are less than the above hours, the former are to be considered the maximum for which the minimum wage shall be paid. Where a male employee replaces a female at any class of work for which a minimum wage is established, he must be paid not less than the minimum.

A 1933 amendment to the Manitoba Minimum Wage Act forbids any person over 18 years of age being employed in any class of employment at a lower rate than the minimum, if any, established for boys under 18. In 1934 the Act was amended to include male employees as well as women and boys. The Act or regulations may be extended by Order in Council to industries not expressly provided for by the Act. Where the regulations fix a minimum wage in any class of industry, no person of 18 years or over may be employed at less than 25 cents per hour unless the Minimum Wage Board has provided for a different rate.

In 1934, the Saskatchewan Minimum Wage Act was amended to provide that, with the approval of the Lieutenant-Governor in Council, the Minimum Wage Board may apply the Act to male employees in any shop or factory which the Act covers.

In 1934, laws were enacted in Quebec, New Brunswick and Ontario to regulate labour conditions in the lumbering industry. The New Brunswick Forest Operations Commission Act provides for a commission with power to fix minimum wages yearly and on the application of an employer or of not less than five employees to hear disputes as to wages and board, store charges and living conditions in the lumber camps. Recommendations of the Commission, if approved by the Minister, must be carried out by the parties to the dispute, failure to do so constituting an offence against the Act.

The Quebec Forest Operations Commission Act provides for a commission to which every timber-limit holder, before commencing operations, must submit details concerning wages, hours of labour, sanitary conditions, terms of hiring, food supplies and prices charged therefor, living accommodation, deductions from wages for medical and other services, fines and any other information required. The Commission may conduct investigations and make inspections. A statement of the wages to be paid must be posted at the camp and any employee paid lower wages may claim the difference before a court.

Under the Ontario Woodmen's Employment Act, an inspector may be appointed to investigate working and living conditions in lumber camps. The operators are to be held responsible for conditions whether they have let contracts for certain work or not.

The Quebec Collective Labour Agreements Extension Act, 1934, empowers the Lieutenant-Governor in Council, on the recommendation of the Minister of Labour, to extend the terms of a collective agreement as to wages and hours between one or more employers and one or more trade unions so as to bind all employers and employees in the same trade or industry in a specified district. On petition for its extension by one of the parties to an agreement, the Minister must give thirty days notice of the petition in the *Quebec Official Gazette*. If there is no valid objection, and if he deems the agreement to have a preponderant importance and significance for the establishment of conditions of labour in the industry in the region concerned, he may recommend, to the Lieutenant-Governor in Council, its extension. An agreement thus made obligatory governs all individual labour contracts in the industry but if an individual contract is more to the advantage of the employed it is to have effect unless prohibited by the collective agreement. The Lieutenant-Governor in Council may refuse to apply the provisions of the Act to any industry liable in his opinion to suffer from the competition of foreign countries or other provinces. Nothing in the Act may be deemed to compel an employer or employee to become or not to become a member of an association of his industry or trade.

The Quebec Workmen's Compensation Act was amended in 1933 to prohibit compensation being paid for the first seven days of disability unless it continues for at least three weeks. The minimum weekly payment to a widow or invalid widower with one or more children was reduced from \$12.50 to \$10 and the same reduction was made in the minimum compensation for total disability. Diseases due to mining and quarrying operations were deleted from the schedule of compensable diseases, *viz.*, ankylostomiasis, miners' phthisis, stone workers' or grinders' phthisis, silicosis and pneumoconiosis. The Quebec Silicosis Act, 1931, and the sections on silicosis added to the Mining Act in the same year were repealed in 1933.

Amendments of 1933 to the Workmen's Compensation Act of Ontario authorized the Workmen's Compensation Board to lower the assessment of any employer who reduced the accident hazard to a minimum by installing safety devices and whose accident record has been good. Workmen disabled from silicosis are to be compensated on the same basis as workmen suffering from other industrial diseases, but where silicosis is complicated with tuberculosis the basis of compensation for total disability is now fixed at 50 p.c. instead of 66 $\frac{2}{3}$  p.c. of average earnings.

In 1934, dermatitis (venenata) due to employment in any process involving the use of acids and alkalis or acids and oils, was added to the schedule of compensable industrial diseases in the Saskatchewan Workmen's Compensation (Accident Fund) Act.



The Nova Scotia Workmen's Compensation Act was amended in 1934 to require that, in reckoning compensation in disability cases, average earnings may not be rated below \$10 per week where the workman's weekly wages would have amounted to at least \$10 if he had worked six days a week. Medical aid is not to be supplied for more than 30 days during a period of 60 days from the date of disability. Formerly, the workman was entitled to medical aid only during the period of 30 days from the date of disability.

During the period under review all the provinces except Nova Scotia and Prince Edward Island made statutory provision for continued co-operation with the Dominion Government in dealing with unemployment. In Nova Scotia and Prince Edward Island, laws enacted in 1931 continued to be effective for that purpose.

An amendment of 1933 to the British Columbia Forest Act authorized the Minister of Lands, as from Nov. 1, 1932, to grant to any municipality or organization charged with the care of unemployed or needy persons a permit entitling the holder to cut timber free of stumpage or royalty to be sold as cordwood, on condition that only persons who are unemployed and in need of relief shall be employed in the cutting and that the proceeds of the sale shall be used for unemployment relief.

Designed first to provide only for the settlement of unemployed coal miners on the land, the Nova Scotia Miners' Land Settlement Act, 1932, now the Nova Scotia Land Settlement Act, was extended in 1933 to unemployed persons who have been engaged in manufacturing or transportation. The Land Settlement Board is given power to provide for the training and re-establishment of the unemployed and their dependants and to aid in settling suitable men on farms.

In Quebec, Ontario, Saskatchewan and British Columbia, legislation enacted in 1933 ratifies agreements between the Government of Canada and the Governments of these provinces for the relief of selected families by placing them on suitable farms. One-third of the expense, not to exceed \$600 per family, is to be borne by the Dominion Government, the remainder by the province and the participating municipalities in the proportions agreed upon between them.

The Alberta Department of Trade and Industry Act, 1934, which came into force on Oct. 18, 1934, provides for a Department of the Government to inquire into conditions in any trade or industry which appear to be detrimental to the trade or the public; to promote conferences of those engaged or employed in any such trade so as to remedy harmful conditions; to promote trade associations for the same purpose and to collect information regarding the various trades of the province and its resources. The Act applies to wholesale and retail dealers, druggists, printers, restaurant keepers, dry cleaners, barbers, hairdressers, and plumbing, heating and sanitary engineers. Other trades may be brought under the Act by Order in Council on petition to that effect. Provision is made for the formulating of codes, setting up standards of ethics and practices, including standards of minimum wages and hours of labour, for any trade which, if approved by 66 p.c. of the persons engaged in, or by persons holding 66 p.c. of the capital invested in that trade, may be made binding on all persons carrying on the trade. If the representatives of a trade fail to agree on a code or if a code is not approved as required, the Minister, with the assistance of an advisory Board, may draw up a code which may be made binding on all persons engaged in the trade by Order in Council. Inquiries may be made into wages and conferences arranged between



employers and employees for the purpose of effecting an agreement as to minimum wages in any trade for which a code is proposed. If no agreement is reached, the Lieutenant-Governor in Council may fix a minimum wage for any class of employees in any district. An employer may not interfere with the free selection of representatives by any association or in any lawful activity of such association. Part III of the Act, which deals with coal mining and distribution, declares invalid any agreement as to wages whereby the remuneration of any person depends on the profits of the industry, unless the agreement is approved by the Minister.

### Section 13.—Legislation Respecting Combinations in Restraint of Trade.

A general article on Canadian legislation concerning trade combinations and monopolies against the public interest will be found at pp. 765-770 of the 1927-28 Year Book under the heading "Legislation Respecting Combinations in Restraint of Trade". The article outlines the provisions of the Combines Investigation Act and reviews the principal cases dealt with under the Act up to Mar. 31, 1927. A brief statement of the provisions against combines as contained in the Criminal Code,\* the Customs Tariff,† the Excise Act‡ and the Patent Act§ is included. A further section of the article summarizes former Canadian legislation for the investigation of combines, including the Combines Investigation Act of 1910 and the Combines and Fair Prices Act of 1919.

**The Combines Investigation Act.**—The Combines Investigation Act (R.S.C., 1927, c. 26) is designed, as its full title indicates, "to provide for the investigation of combines, monopolies, trusts and mergers", and declares to be unlawful only such combines as "have operated or are likely to operate to the detriment or against the interest of the public, whether consumers, producers or others". The statute provides that an inquiry shall be made by the Registrar on receipt of an application signed by any six British subjects resident in Canada, or if the Registrar has reason to believe that a combine exists, or if the Minister of Labour so directs. If after preliminary inquiry sufficient evidence is disclosed to justify further investigation, this may be conducted by the Registrar or by a special Commissioner appointed by the Governor in Council. Full authority is given the Registrar or the Commissioner to examine witnesses on oath and compel the production of records and documents.

The remedies provided by the Act are those of publicity and penalty. The proceedings are conducted in private, unless otherwise ordered by the Minister, but the report of any commissioner is required to be published within fifteen days of its receipt by the Minister. Whenever in the opinion of the Minister an offence has been committed, he may remit the report and the evidence to the Attorney General of the province concerned. The penalty section of the statute provides that any person who is a party or privy to, or knowingly assists in, the formation or operation of a combine is guilty of an indictable offence and liable to a penalty not exceeding \$10,000 or to two years imprisonment, or, if a corporation, to a fine not exceeding \$25,000. Provision is also made in the Act for the reduction

\* R.S.C., 1927, c. 146, ss. 496-498.

† R.S.C., 1927, c. 44, s. 15.

‡ R.S.C., 1927, c. 60, s. 27.

§ R.S.C., 1927, c. 150, s. 40

or removal of the customs duty on any article of commerce, among the manufacturers or dealers in which there exists a combine, the operation of which is facilitated by the tariff. Similarly, the Exchequer Court may revoke a patent if there is evidence to show that the holder of such patent has made use of his exclusive rights to limit production or competition unduly, to enhance prices unreasonably, or to restrain or injure trade.

The constitutional validity of the Combines Investigation Act was given final confirmation by the Judicial Committee of the Privy Council in a decision delivered in January, 1931. This judgment confirmed the unanimous decision of the Supreme Court of Canada, given in April, 1929, after a reference for determination of this question had been made to the Court by the Dominion Government. Both courts upheld also the constitutional validity of Section 498 of the Criminal Code, relating to combinations in restraint of trade.

**Combine Cases in 1933.**—Members of a combine found to exist among manufacturers of baskets and other wood-veneer containers for fruits, vegetables and meats were indicted at Hamilton and pleaded guilty in January, 1933. The accused were fined \$100 each.

An extensive investigation into an alleged combine of importers of British anthracite coal was completed by the Registrar early in 1933. Some seventy witnesses were examined in hearings held at Montreal, Quebec, Toronto and Ottawa. The evidence and report of this investigation were remitted to the Attorney General of Quebec, who instituted prosecutions under the Act against the leading importers. In December, 1933, five firms were convicted and sentenced to pay fines totalling \$30,000. An appeal from this judgment was heard in 1934 and was followed by prosecutions of a second group of importers.

An inquiry into an alleged combine of buyers of Ontario flue-cured tobacco was concluded in 1933 and was made public in the early part of 1934. The investigation related principally to allegations that agreements among buyers had prevented competitive bidding and had caused prices paid to growers to be unreasonably low. No arrangement among buyers in contravention of the Act was found, although it was indicated that growers were found to be at a serious disadvantage in bargaining with the buyers of their product.

The annual report of the Registrar of the Combines Investigation Act, dealing at greater length with the above subjects and referring also to other inquiries, is published as a section of the Annual Report of the Department of Labour.

### Section 14.—Mothers' Allowances.

Six of the nine provinces of Canada provide for the payment of allowances to mothers who are widowed or without adequate means of support. The province of Manitoba was the first to make such provision in 1916, and the example has been followed by the other western provinces and by Ontario and Nova Scotia. The Mothers' Allowances Act, 1930, of New Brunswick has not been proclaimed in effect.

All the mothers' allowances acts stipulate that the mother must be a resident of the province at the time of making application and a widow or, in all the pro-

vinces but New Brunswick and Nova Scotia, a wife, whose husband is physically or mentally incapacitated. The section in the Alberta Act bringing the wife of a physically disabled man within its scope has, however, not been proclaimed.

In British Columbia, Ontario and Saskatchewan, deserted wives are paid an allowance, and in British Columbia and Saskatchewan, the wives of inmates of penal institutions are eligible. Under all the statutes except those of Alberta and Saskatchewan, the mother must be a British subject or the widow or wife of a British subject. Allowances may be paid to a foster-mother under certain conditions in all the provinces but Alberta.

In New Brunswick, Nova Scotia and Ontario, allowances are payable in respect of two or more dependent children, but in Ontario, in special cases, an allowance may be paid for one child and in New Brunswick and Nova Scotia, an allowance is payable for one child under 16 if there is an invalid child over 16 years of age. In the other provinces, allowances are payable in respect of one or more dependent children, but in Manitoba, under the regulations, no allowance is payable in respect of an only child or an only child under 15 years of age unless the mother is temporarily or permanently unable to care for the child. A dependent child is a child under 16 years of age in British Columbia, New Brunswick, Nova Scotia, Ontario and Saskatchewan. In Alberta, a boy under 14 or a girl under 15 is deemed to be dependent. In Manitoba, only children under 15 are regarded as dependent unless they are invalids.

In Alberta, British Columbia, Manitoba and Ontario, the cost of the allowances is divided between the province and the municipalities concerned. In Ontario, however, the Provincial Treasury bears the whole cost of allowances payable to persons resident in the provisional judicial districts (northern Ontario) of the province and not in cities. In Saskatchewan, New Brunswick and Nova Scotia, the whole cost is carried by the province.

**Rates of Allowances.**—In British Columbia, the Act provides for a maximum monthly allowance of \$42.50 for a dependent mother with one child, and an additional \$7.50 for each other child under 16 years of age. In New Brunswick and Nova Scotia, a maximum allowance of \$60 per month is fixed by statute. In the other provinces, the provincial authority administering the Act has power to fix the rate of the allowance. In Ontario, the maximum for a mother and two children is \$40 in a city, \$35 in a town and \$30 in a rural district, with an additional \$5 for every child above two in each case up to a maximum allowance for a family of \$80 per month. In Saskatchewan, minimum and maximum monthly payments of \$8 and \$30 were established by Order in Council in 1931.

In Manitoba, the maximum allowance for a mother and two children is \$50 with a maximum of \$89 for a family of seven or more children. In Alberta, a mother of a single child is granted not more than \$20 a month and a mother of one child under the stipulated age is given a maximum allowance of \$25. On this basis, adjustments are made for other cases.

The statement below shows the expenditure on mothers' allowances in the provincial fiscal years ended 1933.

## MOTHERS' ALLOWANCES IN CANADA, PROVINCIAL FISCAL YEARS ENDED 1933.

| Province.                                  | Number Assisted.   |                    | Benefits Paid. |
|--------------------------------------------|--------------------|--------------------|----------------|
|                                            | Families.          | Children.          |                |
|                                            | No.                | No.                | \$             |
| Alberta (year ended Mar. 31).....          | 1,675              | 4,000 <sup>2</sup> | 438,570        |
| British Columbia (year ended Mar. 31)..... | 1,514              | 3,274              | 779,639        |
| Manitoba (year ended April 30).....        | 1,078              | 3,374              | 352,053        |
| Nova Scotia (year ended Sept. 30).....     | 1,138              | 3,487              | 341,929        |
| Ontario (year ended Oct. 31).....          | 7,653              | 19,359             | 2,801,872      |
| Saskatchewan (year ended April 30).....    | 2,511 <sup>1</sup> | 6,733 <sup>1</sup> | 403,915        |

<sup>1</sup> Approximately.    <sup>2</sup> As of April 30, 1933.

## PART II.—WAGES AND COST OF LIVING.

## Section 1.—Wage Rates.\*

Statistics of rates of wages and hours of labour have been collected for recent years by the Dominion Department of Labour, and are published in a series of bulletins supplementary to the *Labour Gazette*. Report No. 1 of this series was issued in March, 1921. The records upon which the statistics are based begin in most cases with the year 1901. Index numbers have been calculated to show the general movement of wage rates; the series covers six groups of occupations back to 1901, and common factory labour, miscellaneous factory trades and lumbering back to 1911. The index numbers are based upon wage rates in 1913 as 100.

The accompanying table of index numbers (Table 1) shows the relative changes from year to year. A downward movement appeared in most of the groups in 1921 and 1922, after the peak had been reached in 1920. The index numbers for 1923 and 1924 showed on the whole a slightly upward trend, but while there were slight increases during 1925 in some groups, a substantial decline in coal miners' wages reduced the average. In 1926 slight increases took place in the wages paid by the building, metal and printing trades, electric railways and factory trades. In 1927 general increases took place in all the six groups included in the average, as well as in the other three groups; wage increases in the building trades and on the steam railways were the outstanding features of the year. In 1928, except steam railways which was stationary and common factory labour which declined fractionally, all groups showed an upward movement, a substantial increase appearing in building trades. In 1929 all groups except coal mining were higher, the building trades showing the greatest increase. In 1930 building trades showed a substantial increase, lumbering a decrease and other groups fractional increases. In 1931 all groups

\*See pp. 774-783 of the 1927-28 Year Book for an article on the "Wages Statistics of the Census of 1921" and pp. 797-799 of the 1933 Year Book for "Earnings in the Census Year 1931".



were down except printing which showed a slight advance and coal mining which was unchanged. In 1932 all groups were down, the decreases being greatest in lumbering, building trades and steam railways. In 1933 all groups were down substantially, but in 1934 increases appeared in coal mining, factory labour and lumbering, with decreases in the other groups.

Rates of wages and hours of labour in 1934 in various trades in the largest cities of the five economic areas of Canada will be found in Table 2. The attention of those specially interested in the subject of wages and hours is directed to the valuable detailed study, "Wages and Hours of Labour in Canada, 1929, 1933 and 1934", published by the Department of Labour as a supplement to the *Labour Gazette*, January, 1935.

### 1.—Index Numbers of Rates of Wages for Various Classes of Labour in Canada, 1913-34.

NOTE.—Rates of wages in 1913=100. Index numbers for 1901-12 were given at p. 674 of the 1932 Year Book.

| Year.     | Average. <sup>1</sup> | Building Trades. | Metal Trades. | Printing Trades. | Electric Railways. | Steam Railways. | Coal Mining. | Common Factory Labour. | Miscellaneous Factory Trades. | Logging and Saw-milling. |
|-----------|-----------------------|------------------|---------------|------------------|--------------------|-----------------|--------------|------------------------|-------------------------------|--------------------------|
| 1913..... | 100.0                 | 100.0            | 100.0         | 100.0            | 100.0              | 100.0           | 100.0        | 100.0                  | 100.0                         | 100.0                    |
| 1914..... | 101.3                 | 100.8            | 100.5         | 102.4            | 101.0              | 101.4           | 101.9        | 101.0                  | 103.2                         | 94.7                     |
| 1915..... | 101.4                 | 101.5            | 101.5         | 103.6            | 97.8               | 101.7           | 102.3        | 101.0                  | 106.2                         | 89.1                     |
| 1916..... | 105.8                 | 102.4            | 106.9         | 105.8            | 102.2              | 105.9           | 111.7        | 110.4                  | 115.1                         | 109.5                    |
| 1917..... | 119.9                 | 109.9            | 128.0         | 111.3            | 114.6              | 124.6           | 130.8        | 129.2                  | 128.0                         | 130.2                    |
| 1918..... | 143.9 <sup>2</sup>    | 125.9            | 155.2         | 123.7            | 142.9              | 158.0           | 157.8        | 152.3                  | 146.8                         | 150.5                    |
| 1919..... | 165.3                 | 148.2            | 180.1         | 145.9            | 163.2 <sup>2</sup> | 183.9           | 170.5        | 180.2                  | 180.2                         | 169.8                    |
| 1920..... | 197.9 <sup>2</sup>    | 180.9            | 209.4         | 184.0            | 194.2              | 221.0           | 197.7        | 215.3                  | 216.8                         | 202.7                    |
| 1921..... | 191.2                 | 170.5            | 186.8         | 193.3            | 192.1              | 195.9           | 208.3        | 190.6                  | 202.0                         | 152.6                    |
| 1922..... | 182.5 <sup>2</sup>    | 162.5            | 173.7         | 192.3            | 184.4              | 184.4           | 197.8        | 183.0                  | 189.1                         | 158.7                    |
| 1923..... | 183.3                 | 166.4            | 174.0         | 188.9            | 186.2              | 186.4           | 197.8        | 181.7                  | 196.1                         | 170.4                    |
| 1924..... | 183.7                 | 169.7            | 175.5         | 191.9            | 186.4              | 186.4           | 192.4        | 183.2                  | 197.6                         | 183.1                    |
| 1925..... | 180.1 <sup>2</sup>    | 170.4            | 175.4         | 192.8            | 187.8              | 186.4           | 167.6        | 186.3                  | 195.5                         | 178.7                    |
| 1926..... | 180.8 <sup>2</sup>    | 172.1            | 177.4         | 193.3            | 188.4              | 186.4           | 167.4        | 187.3                  | 196.7                         | 180.8                    |
| 1927..... | 184.8 <sup>2</sup>    | 179.3            | 178.1         | 195.0            | 189.9              | 198.4           | 167.9        | 187.7                  | 199.4                         | 182.8                    |
| 1928..... | 187.4 <sup>2</sup>    | 185.6            | 180.1         | 198.3            | 194.1              | 198.4           | 168.9        | 187.1                  | 200.9                         | 184.3                    |
| 1929..... | 192.7                 | 197.5            | 184.6         | 202.3            | 198.6              | 204.3           | 168.9        | 187.8                  | 202.1                         | 185.6                    |
| 1930..... | 194.4                 | 203.2            | 186.6         | 203.3            | 199.4              | 204.3           | 169.4        | 188.2                  | 202.3                         | 183.9                    |
| 1931..... | 191.8 <sup>2</sup>    | 195.7            | 182.9         | 205.1            | 198.6 <sup>2</sup> | 199.2           | 169.4        | 183.4                  | 197.3                         | 163.0                    |
| 1932..... | 181.4 <sup>2</sup>    | 178.2            | 174.7         | 194.2            | 191.1 <sup>2</sup> | 183.9           | 164.0        | 173.6                  | 184.3                         | 141.3                    |
| 1933..... | 172.6                 | 158.0            | 169.2         | 184.3            | 182.7              | 179.7           | 161.9        | 168.1                  | 175.7                         | 121.7                    |
| 1934..... | 170.9                 | 154.8            | 168.0         | 183.5            | 182.4              | 173.7           | 162.9        | 170.8                  | 180.5                         | 145.1                    |

<sup>1</sup> Simple average of the six succeeding columns. <sup>2</sup> Revised since the publication of the 1933 Year Book.

## 2.—Rates of Wages and Hours of Labour in Various Trades and of Unskilled Factory Labour in Certain Cities of Canada, 1931.

NOTE.—Corresponding figures for 1920-26 will be found at pp. 720-721 of the 1926 Year Book and for later years in subsequent issues.

| Occupation.                              | Halifax.              |                       | Montreal.             |                       | Toronto.              |                       | Winnipeg.             |                       | Vancouver.            |                       |
|------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                                          | Wages<br>per<br>Hour. | Hours<br>per<br>Week. | Wages<br>per<br>Hour. | Hours<br>per<br>Week. | Wages<br>per<br>Hour. | Hours<br>per<br>Week. | Wages<br>per<br>Hour. | Hours<br>per<br>Week. | Wages<br>per<br>Hour. | Hours<br>per<br>Week. |
|                                          | \$                    |                       | \$                    |                       | \$                    |                       | \$                    |                       | \$                    |                       |
| 1. Building Trades—                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Bricklayers....                          | .97½                  | 44                    | .40-.70               | 40-50                 | .75-.90               | 40-44                 | 1.00                  | 44                    | 1.00                  | 40                    |
| Carpenters....                           | .55                   | 44                    | .30-.60               | 40-55                 | .60-.80               | 40-44                 | .75                   | 44                    | .62½-.87½             | 40-44                 |
| Electrical workers.....                  | .80                   | 44                    | .50-.65               | 40-48                 | .85-1.00              | 40                    | .85-.90               | 44                    | .75-1.00              | 40-44                 |
| Painters.....                            | .50                   | 44                    | .30-.60               | 40-50                 | .50-.75               | 44                    | .70                   | 44                    | .62½-.80              | 40-44                 |
| Plasterers.....                          | .70                   | 44                    | .67                   | 40                    | .75-1.00              | 40                    | 1.00                  | 44                    | 1.00                  | 40                    |
| Plumbers.....                            | .75                   | 44                    | .50-.75               | 40-54                 | .85                   | 40                    | .90                   | 44                    | .75-1.00              | 40-44                 |
| Sheet-metal workers.....                 | .55-.70               | 44                    | .50-.60               | 40-50                 | .75                   | 40                    | .70-.85               | 44                    | .65-.90               | 40-44                 |
| Stonecutters....                         | .70                   | 44                    | .65-.70               | 40                    | .87½                  | 40                    | .90                   | 44                    | 1.00                  | 40                    |
| Labourers.....                           | .30-.40               | 44-54                 | .15-.40               | 40-60                 | .40-.60               | 40-48                 | .37½-.42½             | 44-48                 | .35-.50               | 40-44                 |
| 2. Electric Railways—                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Conductors and motormen <sup>2</sup> ... | .55 <sup>2</sup>      | 60                    | .51                   | 54 <sup>2</sup>       | .60                   | 44                    | .51                   | 42                    | 59.9                  | 48                    |
| Linemen.....                             | .50-.70               | 44                    | .41-.51               | 40                    | .72-.78               | 44                    | .78½                  | 44                    | .62-.87½              | —                     |
| Shop and barn men.....                   | .40-.70               | 44-56                 | .34-.58               | 40                    | .54-.81               | 44                    | .38½-.64              | 44                    | .46-.75               | 44-48                 |
| Electricians....                         | .65-.70               | 44                    | .51-.61               | 40                    | .60-.79               | 44-48                 | .52-.64               | 39-42                 | .70-.75               | 44                    |
| Trackmen and labourers....               | .35-.50               | 44                    | .31                   | 48                    | .50-.60               | 48                    | .38½                  | 44                    | .50-.59               | 44-48                 |
| 3. Unskilled factory labour..            | .32-.45               | 40-55                 | .18-.50               | 44-60                 | .25-.50               | 44-50                 | .30-.55               | 44-55                 | .40-.62               | 44-50                 |
| 4. Printing Trades—                      | Wages<br>per<br>week. |                       | Wages<br>per<br>week. |                       | Wages<br>per<br>week. |                       | Wages<br>per<br>week. |                       | Wages<br>per<br>week. |                       |
| Compositors, machine and hand, news...   | 32.00                 | 48                    | 36.00-44.00           | 48                    | 45.50                 | 46½                   | 40                    | 46                    | 43.20                 | 45                    |
| Compositors, machine and hand, job....   | 25.00-35.00           | 44-48                 | 30.00-40.00           | 44-48                 | 33.00-40.00           | 44-48                 | 35.20                 | 44-48                 | 40.50                 | 44-48                 |
| Pressmen, news                           | 34.00                 | 48                    | 33.00-43.00           | 48                    | 44.50                 | 48                    | 39.00                 | 44-48                 | 43.20                 | 48                    |
| Pressmen, job..                          | 31.00                 | 44-48                 | 30.00-36.00           | 44-48                 | 33.00-40.00           | 44-48                 | 35.20                 | 44-48                 | 40.50                 | 44-48                 |
| Bookbinders...                           | 27.00-36.00           | 44-48                 | 27.00-33.75           | 48                    | 33.00-40.00           | 44-48                 | 33.00-39.00           | 44-48                 | 38.00-45.00           | 44-48                 |
| Bindery girls...                         | 11.00                 | 44-48                 | 12.50-15.00           | 48                    | 12.50-18.00           | 44-48                 | 12.00-18.00           | 44-48                 | 14.00-20.25           | 44-48                 |

<sup>1</sup>For statistics of the wages and hours of employees of steam railways and wages of employees in and about coal mines in Canada, see pp. 751-752 of the 1930 Year Book, where the rates, etc., for the past seven or eight years to 1929, are given. Except for a 10 p.c. reduction in Nova Scotia in coal mines in 1932, these rates were unchanged down to December, 1932. In editions of the Year Book prior to 1933 a table showing the wages and hours of common labour in factories for certain cities has also been given in this section. This has been omitted to conserve space, but the information can be found at p. 41 of "Wages and Hours of Labour in Canada", published as a supplement to the *Labour Gazette* for January, 1935. For the five cities of Table 2 it is included under sub-heading 3 of the stub.

<sup>2</sup>Final maximum rate after annual increase; one-man cars at Halifax.

<sup>3</sup>One day off if possible.

## Section 2.—Wages and Hours of Labour under Provincial Minimum Wage Legislation.

Seven of the provinces of Canada have in effect legislation providing for minimum wages for female employees in certain industries and occupations through boards or commissions which establish and enforce the minimum rates, and there is also legislation for the restriction of hours of labour. In Alberta, Manitoba, Ontario and Quebec the minimum rates for female employees are applicable to

males in certain respects. Minimum wage legislation for female employees became effective in the various provinces as follows: British Columbia and Manitoba in 1918; Saskatchewan in 1919; Alberta and Ontario in 1920; Quebec in 1926, the statute having been passed in 1919; Nova Scotia in 1930, the statute having been passed in 1920. In New Brunswick a statute was passed in 1930 to come into force on proclamation but has not yet been proclaimed.

Hours of labour are regulated in some of the provinces by the Minimum Wage Boards and in others under the factory acts, etc.

Minimum wage rates for males separately had been established prior to 1934 to a slight extent only in British Columbia since 1925, and in Manitoba since 1931. During 1934, however, provision was made for this and rates were established for comparatively large numbers of male workers in British Columbia, Manitoba, Quebec and New Brunswick. A supplement to the *Labour Gazette* for January, 1935, on Wages and Hours of Labour in Canada 1929, 1933 and 1934 contains an appendix giving information as to minimum wages for males as well as for females in some detail.

Information as to minimum wage rates on Dominion Government contracts for the manufacture and supply of equipment, stores, etc., appears in the paragraphs on Fair Wages in the section on the Dominion Department of Labour at pp. 804-805.

### Subsection 1.—Minimum Wages for Females.

The accompanying table gives information as to minimum rates of wages and as to hours under the orders of the various boards and commissions in effect at the end of 1934.

The information here given is intended to afford merely a statistical summary of the minimum wages and restricted hours of labour in the provinces and industries affected, and while some of the more significant details have been given in footnotes, it has been found impossible to include the information in such form as to indicate any more than the general conditions under these provisions.

For complete information it is necessary to refer to the orders as issued by the various provincial boards. These have been given in summary form in the *Labour Gazette* from time to time as issued. In some provinces these orders include regulations as to employment conditions, sanitary conditions, etc. The boards have power to issue licences for lower rates of pay for handicapped workers and to meet special conditions in the nature of emergencies.

In this table the figures for adult learners and for minors and apprentices are shown in a range covering both classes. There is considerable variation in the rates for such classes in the various industries and the time allowed for such periods varies considerably, from a few weeks to two years and upwards. The number of learners and apprentices is usually restricted to 25 p.c. of the employees.

The hours of labour shown in Table 3 are those for which the minimum rates are payable, or the maximum hours of work (except under special conditions, provision for overtime pay, etc.) established by the minimum wage boards or provided for under other legislation, such as factory acts.

### 3.—Minimum Wage Rates for Female Employees in Canada Under

NOTE.—The regulations governing hours of work in the various provinces are as follows: *Nova Scotia*, Hours for which minimum rates payable to be not less than 44 or more than 50 per week; *Quebec*, Rates payable in printing, etc., and in textile trades for recognized regular working period up to 55 hours; in stores hours usually worked if less than prescribed in orders; *Ontario*, Rates payable for hours stated in orders or

| Industry.                               | Nova Scotia. <sup>1</sup> |                        |                 | Quebec. <sup>2</sup>          |                        |                 | Ontario. <sup>3</sup>     |                          |                 |
|-----------------------------------------|---------------------------|------------------------|-----------------|-------------------------------|------------------------|-----------------|---------------------------|--------------------------|-----------------|
|                                         | Wages per Week.           |                        | Hours per Week. | Wages per Week. <sup>2b</sup> |                        | Hours per Week. | Wages per Week.           |                          | Hours per Week. |
|                                         | Adults, Experienced       | Minors, Learners, etc. |                 | Adults, Experienced           | Minors, Learners, etc. |                 | Adults, Experienced       | Minors, Learners, etc.   |                 |
|                                         | \$                        | \$                     |                 | \$                            | \$                     |                 | \$                        | \$                       |                 |
| 1 Manufacturing.....                    | 10.00-11.00               | 6.00-10.00             | 44-50           | 9.00-12.50                    | 6.00-11.00             | 44-55           | 10.00-12.50               | 6.00-11.00 <sup>10</sup> | 48-54           |
| 2 Fruit and vegetable canning, etc..... | -                         | -                      | -               | -                             | -                      | -               | 0.18-0.25 <sup>8</sup>    | 0.15-0.20 <sup>8</sup>   | -               |
| 3 Laundering, dry cleaning, etc.....    | 10.00-11.00               | 6.00-10.00             | 44-50           | 0.18-0.20 <sup>8</sup>        | 0.13-0.20 <sup>8</sup> | -               | 11.00-12.50               | 7.00-11.00               | 48-54           |
| 4 Retail stores.....                    | 10.00-11.00               | 6.00-10.00             | 44-50           | 9.00-12.50                    | 6.00-11.00             | 48-54           | 8.00-12.50                | 6.00-11.00               | 48-54           |
| 5 Hotels, restaurants, etc.....         | 10.00-11.00               | 8.00-10.00             | 44-50           | -                             | -                      | -               | 0.20-0.26 <sup>8</sup>    | -                        | -               |
| 6 Hairdressing, etc.....                | -                         | -                      | -               | -                             | -                      | -               | 12.00-12.50 <sup>12</sup> | 6.00-10.00               | 48              |
| 7 Theatres and amusement places.....    | -                         | -                      | -               | -                             | -                      | -               | 11.00-12.50 <sup>9</sup>  | -                        | 48-54           |
| 8 Offices.....                          | -                         | -                      | -               | -                             | -                      | -               | 8.00-12.50 <sup>11</sup>  | 6.00-11.00               | 48-54           |
| 9 Telephone operators...                | 10.00-11.00               | 6.00-10.00             | 44-50           | -                             | -                      | -               | 7.00-12.50                | 5.00-11.00               | 48-54           |

<sup>1</sup>According to locality and population.

<sup>2</sup>According to locality, population and industry; the higher rates apply in Montreal and district.

<sup>3</sup>All rates according to locality and population.

<sup>4</sup>Rates generally apply throughout province. "Brickyards and Seasonal and Casual Employment in Industries not covered by other Regulations"—\$12.00 per week of 48 hours or 30 cents an hour for all employees. An Order in Council published Nov. 24, 1934, and effective one month later makes it obligatory on all employers of workers over 18 years, except farm and private domestic workers, to pay a wage of \$12.00 per week of 48 hours, or 25 cents per hour, in any city and certain named municipalities adjacent to Winnipeg, and in any summer resort during June, July, August and September; and \$10.00 per week or 21 cents per hour elsewhere in the province (unless lower rate permitted by regulations or exemption under the Act).

<sup>5</sup>Cities only, but Board may extend any order to every part of province. On Jan. 11, 1935, experienced rates reduced by \$1.00 per week except mail-order houses where reduction was 50 cents (minors and learners rates decreased in some cases).

<sup>6</sup>Apply to centres with more than 600 population, and to Banff, Lake Louise, Waterton Lakes Park and Jasper, except in "canning, etc." where rates given apply throughout province.

<sup>7</sup>Rates apply throughout the province; provision also made for Washing, Curing, Packing, etc. (except Canning) of fish" as follows: experienced—\$15.50 per week (48 hours) or 32 $\frac{3}{4}$  cents per hour; minors, learners, etc.—\$12.75-\$14.75 per week.

<sup>8</sup>Per hour.

<sup>9</sup>Or 25 to 30 cents per hour.

<sup>10</sup>"Custom Millinery Trades" not in factories: minors, learners, etc.—\$5.00-\$10.00 per week.

<sup>11</sup>These rates apply to all elevator operators.

<sup>12</sup>"Tailoring and Millinery Establishments", minors, learners, etc.—\$5.00-\$10.00 per week; in bag factories experienced adults for some work, \$11.00 per week.



## Orders of Provincial Minimum Wage Boards, as at Dec. 31, 1934.

for hours normally worked if less than prescribed in orders; *Manitoba*, 50 hours in tailoring, millinery, paint, broom and seed packing establishments; *Saskatchewan*, In case of retail stores hours may be increased to 56 per week between Dec. 15 and Dec. 31; *Alberta*, 48 per week except in retail stores where 52 hours apply, and in hotels, restaurants, etc., where 56 hours apply; *British Columbia*, Hours of Work Act.

| Manitoba. <sup>4</sup>   |                          |                 | Saskatchewan. <sup>5</sup> |                        |                 | Alberta. <sup>6</sup> |                          |                 | British Columbia. <sup>7</sup> |                           |                 |
|--------------------------|--------------------------|-----------------|----------------------------|------------------------|-----------------|-----------------------|--------------------------|-----------------|--------------------------------|---------------------------|-----------------|
| Wages per Week.          |                          | Hours per Week. | Wages per Week.            |                        | Hours per Week. | Wages per Week.       |                          | Hours per Week. | Wages per Week.                |                           | Hours per Week. |
| Adults, Experienced.     | Minors, Learners, etc.   |                 | Adults, Experienced.       | Minors, Learners, etc. |                 | Adults, Experienced.  | Minors, Learners, etc.   |                 | Adults, Experienced.           | Minors, Learners, etc.    |                 |
| \$                       | \$                       |                 | \$                         | \$                     |                 | \$                    | \$                       |                 | \$                             | \$                        |                 |
| 12.00 <sup>12</sup>      | 7.00-11.00 <sup>12</sup> | 48-50           | 14.00                      | 9.50-11.50             | 48              | 12.50                 | 6.00-11.00 <sup>13</sup> | 48              | 14.00                          | 7.00-13.00                | 48 1            |
| -                        | -                        | -               | -                          | -                      | -               | 12.50                 | 9.00-10.00               | 48              | 0.27 <sup>8</sup>              | 0.25 <sup>8</sup>         | - 2             |
| 12.00 <sup>13</sup>      | 9.00-11.00 <sup>13</sup> | 50              | 14.00                      | 9.50-11.50             | 48              | 12.50                 | 9.50-11.50               | 48              | 13.50                          | 8.00-12.00                | 48 3            |
| 12.00                    | 6.00-11.00               | 48              | 15.00                      | 7.00-13.50             | 49-51           | 12.50                 | 7.50-11.00               | 52              | 12.75                          | 7.50-12.00                | 48 4            |
| 9.60-12.00 <sup>14</sup> | 9.60 <sup>14</sup>       | 48              | 11.00-13.00                | 11.00                  | 49              | 12.50 <sup>16</sup>   | 9.00-11.00 <sup>16</sup> | 48-56           | 14.00 <sup>21</sup>            | 12.00 <sup>21</sup>       | 48 5            |
| 12.00                    | 8.00-11.00               | 48              | 15.00                      | 9.00-13.00             | 48              | 14.00 <sup>20</sup>   | 6.00-12.00 <sup>20</sup> | 48              | 14.25 <sup>23</sup>            | 10.00-13.00 <sup>23</sup> | 48 6            |
| 12.00 <sup>15</sup>      | -                        | 48              | -                          | -                      | -               | 14.00 <sup>19</sup>   | -                        | 48              | 14.25                          | 10.00-13.00 <sup>22</sup> | 48 7            |
| 12.50 <sup>17</sup>      | 8.00-11.50 <sup>17</sup> | 44              | -                          | -                      | -               | 14.00                 | 7.50-12.00               | 48              | 15.00                          | 11.00-14.00               | 48 8            |
| -                        | -                        | -               | -                          | -                      | -               | 14.00                 | 7.50-12.00               | 48              | 15.00 <sup>24</sup>            | 11.00-13.00               | 48 9            |

<sup>13</sup>Winnipeg and St. Boniface only.

<sup>14</sup>Higher rates apply to Winnipeg and district and to summer resorts during June, July, August and September. Part-time rates: experienced—25 cents per hour; inexperienced 20 cents per hour.

<sup>15</sup>Or 35 cents per hour, Winnipeg, St. Boniface and St. James only; no minors to be employed.

<sup>16</sup>For 7-day week: experienced—\$14.50; apprentices—\$10.50-\$13.00.

<sup>17</sup>Winnipeg, St. Boniface and St. James only.

<sup>18</sup>Millinery shops—\$4.00-\$10.00.

<sup>19</sup>Ushers in theatres, motion picture houses and music halls, cloakroom attendants in cabarets and dance halls, if working 28 hours to 48 hours per week \$14.00; hourly rate 50 cents.

<sup>20</sup>"Personal Services" order includes also garages and operation of elevators.

<sup>21</sup>"Public Housekeeping" order includes chambermaids in lodging houses, elevator operators, also janitresses except in apartment buildings of less than 12 suites.

<sup>22</sup>Ushers in theatres, music halls, lecture halls, etc., \$14.25 for 36 to 48 hours per week, \$10.80 for 18 to 36 hours.

<sup>23</sup>"Personal Services" includes, also, attendants at garages and service stations, drivers of motor cars and other vehicles.

<sup>24</sup>"Telephone and Telegraph".

<sup>25</sup>\$12.50 in Toronto; \$12.00 in Ottawa, Hamilton, London, Windsor; shoeshine parlours in Toronto, \$12.50, 50 hours.

<sup>26</sup>In some industries, instead of a graduated scale of wages according to experience, stipulated percentages of the female workers in each establishment must receive the full minimum rate while the remainder may work at lower minimum rates provided.

### Subsection 2.—Minimum Wages for Male Employees.

In Quebec, Ontario, Manitoba, Alberta and British Columbia, the minimum wage legislation provides that in certain respects males may not be employed at rates lower than the minimum rates set for females, as set forth in the section on labour legislation. In the following provinces other provisions for minimum wage rates for males have been made.

During 1934, under new legislation, minimum wages for males have been established in various provinces to some extent, and the previous legislation in British Columbia has been amplified. Information on this appears in the section on labour legislation on pp. 844-849.

In New Brunswick, in October, 1934, under the authority of the Forest Operations and Commission Act, the Commission fixed a minimum wage in lumbering of \$32 per month and board, net, or its equivalent in case of piecework, except in booming and sorting for which the minimum rate was set at 20 cents per hour, net.

In Quebec, under the Forest Operations Commission Act, 1934, all holders of licences to cut timber on public lands, or contractors, must submit a report on wages, hours, supplies, etc. The Commission has issued regulations recommending that at least \$30 net per month should be paid, or its equivalent in case of piecework.

Under the Quebec Collective Agreements Extension Act (section on labour legislation), the wages and hours in agreements have been extended and made compulsory for all employees as follows: in the industries and districts covered by the building trades in various parts of the province; granite and stone quarrying throughout the province; bakeries in Three Rivers; fur workers, Montreal and district; longshoremen, Montreal; and shoe manufacturing throughout the province. Particulars have been given in various issues of the *Labour Gazette* during 1934, and in a supplement to the *Labour Gazette* for January, 1935. Since that time an agreement for the mens and boys clothing industry throughout the province has been similarly extended, (see *Labour Gazette*, March, 1935).

In Manitoba minimum rates at \$8 per week for the first six months, \$9 for the second six months and \$10 after the first year have been set for boys under 18 years of age in Winnipeg and district and in Brandon, in manufacturing industries, in garages and gasoline filling stations and in retail stores; also for Winnipeg and district only in laundries, etc., in hotels and restaurants, etc. For messenger boys and bell boys \$8 per week was set, part-time work at 15 cents per hour. Minimum rates for men, over 18 years, at \$12 per week, or 25 cents per hour, in Winnipeg and district and \$10 per week, or 21 cents per hour, elsewhere, were set up for hotels, restaurants, etc., and in November, 1934, these rates were extended to men in any industry not already covered except farming, market gardening and domestic service. All rates are on the basis of the 48-hour week, with restrictions as to overtime.

The Fair Wages Act of Manitoba, 1916, as amended in 1934, provides for the observance of the schedules of wages and hours established for Provincial Government contracts on private contracts for building, repairs, etc., in the Greater Winnipeg Water District or any city or town having a population of over 2,000.

In British Columbia minimum rates have been established under the new Male Minimum Wage Act, 1934, in logging, sawmilling and woodworking, at 35 cents, 37½ and 40 cents per hour, varying according to class of work and locality; in construction at 45 cents in cities and 40 cents elsewhere; in baking, mercantile establishments and barbering at 40 cents, all on the basis of the 8-hour day and 48-hour week, with certain exceptions and special provisions.

### Section 3.—Cost of Living of Wage Earners.

An index number of the cost of living in working-men's families has been computed by the Department of Labour since 1913, and is published monthly in the *Labour Gazette*. This index is specifically designed for the purpose of measuring the trends of the cost of living for certain wage-earning classes with a somewhat lower standard of living than that which is measured by the Bureau of Statistics index number of retail prices, shown on pp. 869-873 of the present volume. The former wage-earners index is used extensively in negotiations as to wage rates and in the settlement of industrial disputes. An abridgment of this index is presented in Table 4.

#### 4.—Changes in the Cost of Living in Canada from 1914 to 1934.<sup>1</sup>

(Average prices in 1913=100.)

| Month and Year. | Food. | Fuel and Light. | Rent. | Clothing. | Sundries. | All Items. |
|-----------------|-------|-----------------|-------|-----------|-----------|------------|
| Dec. 1914       | 108   | 98              | 97    | 103       | 100       | 103        |
| Dec. 1915       | 111   | 96              | 94    | 115       | 110       | 107        |
| Dec. 1916       | 138   | 109             | 95    | 136       | 122       | 124        |
| Dec. 1917       | 167   | 125             | 102   | 158       | 134       | 143        |
| Dec. 1918       | 186   | 146             | 111   | 185       | 151       | 162        |
| Dec. 1919       | 201   | 148             | 122   | 210       | 164       | 176        |
| Dec. 1920       | 202   | 200             | 142   | 232       | 173       | 190        |
| Dec. 1921       | 150   | 172             | 150   | 177       | 173       | 161        |
| Dec. 1922       | 142   | 177             | 155   | 162       | 174       | 157        |
| Dec. 1923       | 146   | 172             | 158   | 164       | 171       | 159        |
| Dec. 1924       | 144   | 162             | 158   | 159       | 169       | 156        |
| Dec. 1925       | 157   | 166             | 158   | 159       | 166       | 160        |
| Dec. 1926       | 152   | 162             | 156   | 157       | 166       | 157        |
| Dec. 1927       | 152   | 158             | 156   | 155       | 166       | 157        |
| Dec. 1928       | 154   | 157             | 157   | 157       | 166       | 158        |
| Dec. 1929       | 161   | 157             | 158   | 156       | 166       | 160        |
| Dec. 1930       | 138   | 156             | 160   | 148       | 165       | 151        |
| Dec. 1931       | 107   | 152             | 158   | 127       | 163       | 135        |
| Dec. 1932       | 96    | 145             | 141   | 114       | 161       | 125        |
| Mar. 1933       | 91    | 145             | 141   | 112       | 160       | 122        |
| June 1933       | 93    | 142             | 131   | 107       | 160       | 120        |
| Sept. 1933      | 99    | 141             | 131   | 113       | 156       | 122        |
| Dec. 1933       | 100   | 142             | 129   | 113       | 157       | 123        |
| Jan. 1934       | 102   | 142             | 129   | 113       | 157       | 123        |
| Feb. 1934       | 104   | 142             | 129   | 113       | 157       | 124        |
| Mar. 1934       | 109   | 143             | 129   | 113       | 156       | 126        |
| April 1934      | 106   | 143             | 129   | 113       | 156       | 125        |
| May 1934        | 103   | 142             | 128   | 113       | 156       | 123        |
| June 1934       | 101   | 141             | 128   | 113       | 156       | 122        |
| July 1934       | 101   | 141             | 128   | 113       | 155       | 122        |
| Aug. 1934       | 102   | 141             | 128   | 113       | 155       | 123        |
| Sept. 1934      | 102   | 142             | 128   | 117       | 155       | 123        |
| Oct. 1934       | 103   | 142             | 128   | 117       | 155       | 124        |
| Nov. 1934       | 103   | 143             | 129   | 117       | 154       | 124        |
| Dec. 1934       | 103   | 144             | 129   | 115       | 154       | 123        |

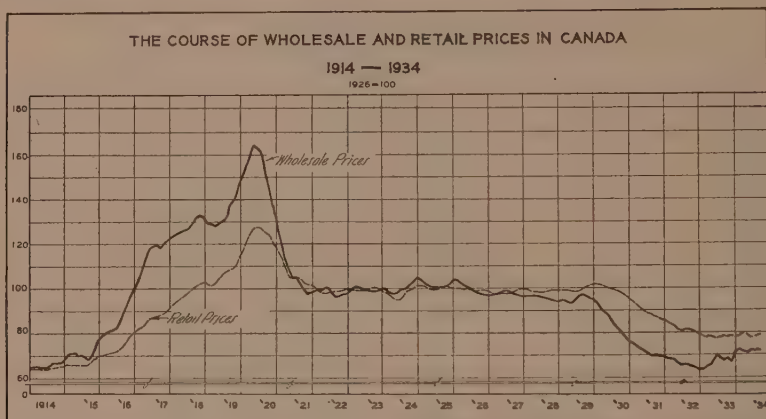
<sup>1</sup> The figures for "all items" were calculated by giving the following weights to each group: Food 35 p.c.; Fuel 8 p.c.; Rent 18½ p.c.; Clothing 18½ p.c.; and Sundries 20 p.c.

### Section 4.—Earnings in the Census Year, 1931.

The total number of wage earners in Canada reporting earnings for the census year ended June 1, 1931, was 2,477,038 or 96.53 p.c. of all wage-earners and the total amount of their earnings was \$2,102,877,400. Of this number 1,948,500 were males and their earnings amounted to \$1,806,633,400 or 85.91 p.c. of the total earnings. Females reporting earnings numbered 528,538 and the total amount of their earnings was \$296,244,000 or 14.09 p.c. of total earnings. The total weeks worked by wage-earners reporting earnings was 104,947,274. The number of weeks worked by the males was 80,322,382 or 76.54 p.c. of the total for both sexes, and the total for the females was 24,624,892 weeks or 23.46 p.c. of the grand total. A table showing earnings and weeks worked by wage-earners in the various industrial groups appeared at pp. 798-799 of the 1933 Year Book.

## CHAPTER XX. PRICES.\*

Commodity prices fall into two main divisions—wholesale prices and retail prices. The number of wholesale traders is smaller than that of retail traders, buying and selling by carefully defined grades more prevalent, and prices ranges at any particular time and place much narrower. Wholesale transactions are generally between expert buyers and sellers, dealing on purely business principles. Accordingly, wholesale prices conform approximately to the operation of the principle of supply and demand, and are thus more valuable as an index to the current state of business. Retail prices, on the other hand, are governed to some extent by custom and do not always respond readily to fluctuations in wholesale prices.



Further, there exists what is technically called a "lag" between wholesale and retail prices, the latter not showing changes in fundamental business conditions until a month or two after wholesale prices. Thus, while wholesale prices in Canada reached a peak in May, 1920, and commenced to decline in June, retail prices reached their corresponding peak in July, 1920, and began to decline in August. A similar "lag" has been noted in recent years, as indicated by the above chart showing the course of wholesale and retail prices in Canada from 1914 to 1934.

Retail prices find one of their chief uses in the measurement of changes in the cost of living. This measurement is complicated by such changing factors as consumption, habits and standards of living, and qualitative changes in commodities included in the budget.

### Section 1.—Wholesale Prices of Commodities.

#### Subsection 1.—Historical Review of Canadian Prices.

Until recently the index number of wholesale prices in Canada did not go back beyond 1890. However, it has now been extended backward to 1867 on the 1913 base, the added quarter of a century including a very interesting period to students of price statistics. The average index numbers for every year since

\*Revised by Herbert Marshall, B.A., F.S.S., Chief, Internal Trade Branch, Dominion Bureau of Statistics. This Branch compiles and publishes statistics on: Prices (wholesale, retail, securities, services, exchange, interest rates, cost of living), Retail and Wholesale Trade, Foreign Capital Investments in Canada and Canadian Investments Abroad, Balance of International Payments, and other related subjects. For a complete list of the publications of this Branch, the reader is referred to Chapter XXIX, Section I, under "Internal Trade".



Confederation are given in Table 1. In that table will be noted the high prices of 1867, immediately following the close of the American Civil War and the Austro-Prussian War of 1866, and the tendency to declining prices in the years immediately following. Prices went up again after the Franco-German War of 1871 and reached a high point in 1872 and 1873, but the crisis of the latter year resulted in a decline. A downward trend persisted fairly steadily throughout the 25 years from 1872 to 1897 and was featured by an inadequate increase in the supply of gold. The gold supply of the world did not increase as rapidly as the supply of commodities, consequently more commodities could be secured for a given amount of gold. This gold shortage was accentuated by the demonetization of silver which ceased to be legal tender with gold and was reduced to the level of token money by the chief nations. Relief came through the discoveries of gold in the Rand mines and the application of the cyanide process to low-grade ores. The result was a rapidly increasing world production of gold from about 1890 down to the outbreak of the Great War, with consequent rising general prices as soon as the volume of the new gold became a large part of the total stock. Thus prices increased from the low point of 75.6 in 1897 to 100 in 1913 and 102.3 in 1914. Afterwards, the Great War, both through the scarcity of commodities which it occasioned and the inflation of the currency which it produced, drove prices rapidly upward to a maximum of 243.5 in 1920, followed by a rapid collapse to 152.0 in 1922. This was succeeded by a slight increase to 160.3 in 1925. The tendency from 1925 to 1929 was downward, although the period was one of increasing prosperity—a condition normally associated with rising prices.

### 1.—Annual Index Numbers of Wholesale Prices in Canada, 1867-1934.

(1913=100.)

|           |       |           |       |           |       |                         |       |
|-----------|-------|-----------|-------|-----------|-------|-------------------------|-------|
| 1867..... | 133.0 | 1884..... | 100.6 | 1901..... | 84.5  | 1918.....               | 199.0 |
| 1868..... | 128.7 | 1885..... | 92.7  | 1902..... | 86.2  | 1919.....               | 209.2 |
| 1869..... | 126.5 | 1886..... | 90.7  | 1903..... | 86.9  | 1920.....               | 243.5 |
| 1870..... | 123.5 | 1887..... | 91.9  | 1904..... | 87.0  | 1921.....               | 171.8 |
| 1871..... | 124.5 | 1888..... | 93.5  | 1905..... | 87.8  | 1922.....               | 152.0 |
| 1872..... | 135.7 | 1889..... | 92.6  | 1906..... | 92.6  | 1923.....               | 153.0 |
| 1873..... | 133.8 | 1890..... | 93.0  | 1907..... | 96.2  | 1924.....               | 155.2 |
| 1874..... | 129.0 | 1891..... | 91.4  | 1908..... | 90.9  | 1925.....               | 160.3 |
| 1875..... | 120.7 | 1892..... | 86.2  | 1909..... | 91.4  | 1926.....               | 156.2 |
| 1876..... | 116.6 | 1893..... | 85.2  | 1910..... | 94.3  | 1927.....               | 152.6 |
| 1877..... | 115.1 | 1894..... | 80.6  | 1911..... | 95.0  | 1928.....               | 150.6 |
| 1878..... | 104.3 | 1895..... | 79.6  | 1912..... | 99.5  | 1929.....               | 149.3 |
| 1879..... | 101.0 | 1896..... | 76.0  | 1913..... | 100.0 | 1930.....               | 135.3 |
| 1880..... | 112.9 | 1897..... | 75.6  | 1914..... | 102.3 | 1931.....               | 112.6 |
| 1881..... | 109.9 | 1898..... | 77.8  | 1915..... | 109.9 | 1932.....               | 104.2 |
| 1882..... | 112.1 | 1899..... | 81.4  | 1916..... | 131.6 | 1933.....               | 104.8 |
| 1883..... | 106.0 | 1900..... | 85.8  | 1917..... | 178.5 | 1934 <sup>1</sup> ..... | 111.8 |

<sup>1</sup> Subject to revision.

Commencing in the fall of 1929, a severe economic depression set in, which was accompanied by a drastic decline in wholesale prices. Its extent may be gauged from the drop of the wholesale price index from 153.7 in August, 1929, to 99.2 in February, 1933. A subsequent irregular rise carried this index upward to 111.2 in December, 1934.

### Subsection 2.—The Index Number on a Post-War Base (1926).

The official Canadian index numbers of wholesale prices along with the other price indexes computed by the Dominion Bureau of Statistics were revised in 1928, when the list of commodities was increased from 236 to 502. The weighting system was extended to obtain a fairer distribution of importance among sub-groups, and the base was shifted to the year 1926. By that time most of the leading countries of the world had completed post-war currency reorganization, and a reasonable degree of price stability seemed to have been established. Commodities and weights were again revised at the beginning of 1934, bringing the total number of price series in the index up to 567.

The outstanding development in the field of prices since the base revision to 1926 has been the marked dispersion among various price groups between August, 1929, and the beginning of 1933. From 1926 to the latter part of 1929 a moderate decline occurred, but its effect upon the price structure was not great. Subsequent dislocation, however, was extremely serious as may be observed from the following percentage declines of group prices between August, 1929, and February, 1933: Canadian farm products, 60·7 p.c.; raw and partly manufactured materials, 50·5 p.c.; fully and chiefly manufactured goods, 29·3 p.c.; and the average of all commodities at wholesale, 35·5 p.c. From March, 1933, to December, 1934, the movement of commodity prices has been broadly upward, and the advance for primary products considerably more rapid than that for manufactured products. The following index numbers show the relationship between the average of all commodities and specified commodity groups for December, 1934: all commodities 100·0; Canadian farm products, 86·5; raw and partly manufactured materials, 90·3; and fully and chiefly manufactured materials, 102·1. This represents material improvement over conditions existing at the nadir of the depression, although it is evident that equilibrium has not yet been restored.

### 2.—Weighted General Wholesale Price Index Numbers, by Months, 1925-34.

(1926=100.)

| Month.                  | 1925.        | 1926.        | 1927.       | 1928.       | 1929.       | 1930.       | 1931.       | 1932.             | 1933.       | 1934. <sup>1</sup> |
|-------------------------|--------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------------|-------------|--------------------|
| January.....            | 106·0        | 103·0        | 97·8        | 96·9        | 94·0        | 95·3        | 75·9        | 69·5              | 63·8        | 70·7               |
| February.....           | 105·4        | 102·1        | 97·6        | 96·8        | 95·0        | 93·9        | 75·5        | 68·9              | 63·5        | 72·1               |
| March.....              | 103·5        | 101·3        | 97·3        | 97·7        | 95·6        | 91·8        | 74·5        | 69·0              | 64·3        | 72·1               |
| April.....              | 100·2        | 101·2        | 97·3        | 98·3        | 94·5        | 91·2        | 73·9        | 68·2              | 65·3        | 71·3               |
| May.....                | 101·7        | 100·2        | 98·3        | 97·9        | 93·4        | 89·7        | 72·5        | 67·4              | 66·7        | 71·1               |
| June.....               | 101·5        | 100·1        | 98·7        | 96·9        | 93·4        | 87·7        | 71·8        | 66·4              | 67·5        | 72·0               |
| July.....               | 101·2        | 100·1        | 98·5        | 96·0        | 97·2        | 85·3        | 71·3        | 66·5 <sup>2</sup> | 70·5        | 72·0               |
| August.....             | 101·7        | 99·1         | 98·3        | 95·3        | 98·4        | 83·7        | 70·5        | 66·7              | 69·5        | 72·2               |
| September.....          | 100·0        | 98·5         | 97·1        | 95·4        | 97·8        | 82·1        | 69·7        | 65·9              | 68·9        | 71·9               |
| October.....            | 99·9         | 98·1         | 97·2        | 95·2        | 96·8        | 81·0        | 69·9        | 65·0              | 67·9        | 71·3               |
| November.....           | 103·2        | 97·7         | 96·9        | 94·9        | 95·7        | 79·5        | 70·7        | 64·7              | 68·9        | 71·1               |
| December.....           | 104·7        | 97·9         | 97·2        | 94·6        | 96·0        | 77·7        | 70·4        | 64·0              | 69·0        | 71·1               |
| <b>Yearly Averages.</b> | <b>102·6</b> | <b>100·0</b> | <b>97·7</b> | <b>96·4</b> | <b>95·6</b> | <b>86·6</b> | <b>72·1</b> | <b>66·7</b>       | <b>67·1</b> | <b>71·6</b>        |

<sup>1</sup> Subject to revision.

<sup>2</sup> Revised since the publication of the 1933 Year Book.

## 3.—Annual Weighted Index Numbers of Wholesale Prices of Commodities, by Groups (Chief Component Material Classification), 1913-34, with Monthly Figures for 1932-34.

(1926=100.)

| Year and Month.                         | Vegetable Products. | Animals and Their Products. | Fibres, Textiles and Textile Products. | Wood, Wood Products and Paper. | Iron and Its Products. | Non-Ferrous Metals and Their Products. | Non-Metallic Minerals and Their Products. | Chemicals and Allied Products. | All Commodities.  |
|-----------------------------------------|---------------------|-----------------------------|----------------------------------------|--------------------------------|------------------------|----------------------------------------|-------------------------------------------|--------------------------------|-------------------|
| Numbers of Commodity Price Series Used. |                     |                             |                                        |                                |                        |                                        |                                           |                                |                   |
| 1913-25.....                            | 67                  | 50                          | 28                                     | 21                             | 26                     | 15                                     | 16                                        | 13                             | 236               |
| 1926-33.....                            | 124                 | 74                          | 60                                     | 44                             | 39                     | 15                                     | 73                                        | 73                             | 502               |
| 1934.....                               | 135                 | 76                          | 85                                     | 49                             | 44                     | 18                                     | 83                                        | 77                             | 567               |
| Index Numbers.                          |                     |                             |                                        |                                |                        |                                        |                                           |                                |                   |
| 1913.....                               | 58.1                | 70.9                        | 58.2                                   | 63.9                           | 68.9                   | 98.4                                   | 56.8                                      | 63.4                           | 64.0              |
| 1914.....                               | 64.8                | 72.6                        | 56.9                                   | 60.3                           | 67.3                   | 94.7                                   | 53.7                                      | 65.3                           | 65.5              |
| 1915.....                               | 75.6                | 74.0                        | 58.3                                   | 56.5                           | 73.9                   | 106.9                                  | 52.7                                      | 68.1                           | 70.4              |
| 1916.....                               | 87.0                | 85.0                        | 77.6                                   | 64.0                           | 104.6                  | 135.1                                  | 58.0                                      | 78.0                           | 84.3              |
| 1917.....                               | 124.5               | 110.4                       | 114.6                                  | 79.8                           | 151.8                  | 143.9                                  | 71.6                                      | 98.1                           | 114.3             |
| 1918.....                               | 127.9               | 127.1                       | 157.1                                  | 89.1                           | 156.7                  | 141.9                                  | 82.3                                      | 118.7                          | 127.4             |
| 1919.....                               | 136.1               | 140.8                       | 163.8                                  | 109.6                          | 139.1                  | 133.5                                  | 93.0                                      | 117.5                          | 133.9             |
| 1920.....                               | 167.0               | 145.1                       | 176.6                                  | 154.4                          | 168.4                  | 135.5                                  | 112.2                                     | 141.5                          | 155.9             |
| 1921.....                               | 103.5               | 109.6                       | 96.0                                   | 129.4                          | 128.0                  | 97.0                                   | 116.6                                     | 117.0                          | 110.0             |
| 1922.....                               | 86.2                | 96.0                        | 101.7                                  | 106.3                          | 104.6                  | 97.3                                   | 107.0                                     | 105.4                          | 97.3              |
| 1923.....                               | 83.7                | 95.0                        | 116.9                                  | 113.0                          | 115.8                  | 95.3                                   | 104.4                                     | 104.4                          | 98.0              |
| 1924.....                               | 89.2                | 91.8                        | 117.9                                  | 105.9                          | 111.0                  | 94.8                                   | 104.1                                     | 102.5                          | 99.4              |
| 1925.....                               | 100.6               | 100.3                       | 112.5                                  | 101.6                          | 104.5                  | 103.9                                  | 100.3                                     | 99.6                           | 102.6             |
| 1926.....                               | 100.0               | 100.0                       | 100.0                                  | 100.0                          | 100.0                  | 100.0                                  | 100.0                                     | 100.0                          | 100.0             |
| 1927.....                               | 98.3                | 101.9                       | 93.7                                   | 98.5                           | 96.2                   | 91.5                                   | 96.5                                      | 98.3                           | 97.7              |
| 1928.....                               | 93.0                | 108.1                       | 94.5                                   | 98.7                           | 93.2                   | 92.0                                   | 92.5                                      | 95.3                           | 96.4              |
| 1929.....                               | 91.6                | 109.0                       | 91.3                                   | 93.9                           | 93.7                   | 99.2                                   | 92.9                                      | 95.4                           | 95.6              |
| 1930.....                               | 77.7                | 99.1                        | 81.8                                   | 88.7                           | 91.1                   | 80.7                                   | 91.3                                      | 92.8                           | 86.6              |
| 1931.....                               | 56.9                | 73.9                        | 73.4                                   | 79.1                           | 87.4                   | 64.6                                   | 86.5                                      | 86.7                           | 72.1              |
| 1932.....                               | 54.8                | 59.7                        | 69.7                                   | 69.1                           | 86.3                   | 59.0                                   | 85.5                                      | 83.9 <sup>2</sup>              | 66.7              |
| 1933.....                               | 59.3                | 59.4                        | 69.7                                   | 62.8                           | 85.4                   | 64.3                                   | 84.4                                      | 81.3                           | 67.1              |
| 1934.....                               | 66.6                | 67.2                        | 72.9                                   | 65.3                           | 87.0                   | 64.3                                   | 86.0                                      | 81.2                           | 71.6              |
| 1932.                                   |                     |                             |                                        |                                |                        |                                        |                                           |                                |                   |
| January.....                            | 56.0                | 65.0                        | 71.0                                   | 73.6                           | 86.8                   | 66.6                                   | 87.3                                      | 85.6                           | 69.5              |
| February.....                           | 56.6 <sup>2</sup>   | 62.2                        | 70.9                                   | 73.4                           | 86.3                   | 62.9                                   | 87.2                                      | 85.1 <sup>2</sup>              | 68.9              |
| March.....                              | 57.5                | 63.2                        | 70.8                                   | 73.2                           | 86.3                   | 60.2                                   | 86.3                                      | 84.0                           | 69.0              |
| April.....                              | 57.6                | 59.7                        | 70.4                                   | 72.4                           | 86.5                   | 58.5                                   | 86.0                                      | 84.1                           | 68.2              |
| May.....                                | 57.3                | 57.6                        | 69.6                                   | 71.1                           | 88.5                   | 57.2                                   | 85.9                                      | 84.0 <sup>2</sup>              | 67.4              |
| June.....                               | 54.7                | 57.0                        | 69.3                                   | 70.5                           | 88.6                   | 56.6                                   | 85.9                                      | 83.5                           | 66.4              |
| July.....                               | 55.6                | 57.6                        | 69.0                                   | 69.6                           | 86.4                   | 56.1                                   | 85.7                                      | 83.5 <sup>2</sup>              | 66.5 <sup>2</sup> |
| August.....                             | 55.6                | 58.6                        | 69.4                                   | 69.4                           | 86.1                   | 57.3                                   | 85.7                                      | 83.6 <sup>2</sup>              | 66.7              |
| September.....                          | 53.9                | 60.8                        | 70.0                                   | 64.3                           | 88.0                   | 58.9                                   | 85.9                                      | 83.4                           | 65.9              |
| October.....                            | 52.1                | 59.4                        | 69.1                                   | 64.3                           | 85.8                   | 57.7                                   | 85.8                                      | 83.2 <sup>2</sup>              | 65.0              |
| November.....                           | 51.8                | 57.9                        | 68.6                                   | 64.4                           | 86.0                   | 58.2                                   | 85.5                                      | 83.5 <sup>2</sup>              | 64.7              |
| December.....                           | 50.1                | 57.4                        | 68.5                                   | 63.8                           | 86.2                   | 57.5                                   | 86.1                                      | 83.5 <sup>2</sup>              | 64.0              |
| 1933.                                   |                     |                             |                                        |                                |                        |                                        |                                           |                                |                   |
| January.....                            | 50.5                | 57.2                        | 67.9                                   | 63.5                           | 85.4                   | 56.9                                   | 86.0                                      | 81.9                           | 63.8              |
| February.....                           | 50.6                | 55.6                        | 67.8                                   | 63.1                           | 85.2                   | 58.4                                   | 84.8                                      | 81.7                           | 63.5              |
| March.....                              | 51.8                | 58.4                        | 67.7                                   | 62.7                           | 85.0                   | 59.8                                   | 84.8                                      | 81.8                           | 64.3              |
| April.....                              | 56.6                | 59.5                        | 67.0                                   | 59.3                           | 85.0                   | 60.5                                   | 83.9                                      | 81.6                           | 65.3              |
| May.....                                | 61.0                | 58.6                        | 68.9                                   | 59.5                           | 84.5                   | 64.7                                   | 83.2                                      | 81.2                           | 66.7              |
| June.....                               | 61.5                | 58.5                        | 69.9                                   | 61.7                           | 85.3                   | 68.0                                   | 82.7                                      | 80.8                           | 67.5              |
| July.....                               | 69.7                | 59.4                        | 70.6                                   | 62.6                           | 85.5                   | 69.9                                   | 82.9                                      | 81.1                           | 70.5              |
| August.....                             | 65.9                | 59.7                        | 71.2                                   | 63.2                           | 85.4                   | 68.0                                   | 83.3                                      | 81.6                           | 69.5              |
| September.....                          | 62.5                | 60.6                        | 71.7                                   | 63.8                           | 85.5                   | 67.5                                   | 85.0                                      | 81.5                           | 68.9              |
| October.....                            | 59.2                | 60.8                        | 71.4                                   | 64.4                           | 85.7                   | 65.5                                   | 85.2                                      | 81.0                           | 67.9              |
| November.....                           | 61.0                | 63.5                        | 70.9                                   | 64.4                           | 86.1                   | 66.2                                   | 85.1                                      | 81.0                           | 68.9              |
| December.....                           | 60.4                | 63.7                        | 71.7                                   | 64.4                           | 86.7                   | 66.5                                   | 85.8                                      | 80.8                           | 69.0              |

<sup>1</sup> Subject to revision.<sup>2</sup> Revised since the publication of the 1933 Year Book.

### 3.—Annual Weighted Index Numbers of Wholesale Prices of Commodities, by Groups (Chief Component Material Classification), 1913-34, with Monthly Figures for 1932-34—concluded.

(1926=100.)

| Year and Month.                         | Vegetable Products. | Animals and Their Products. | Fibres, Textiles and Textile Products. | Wood, Wood Products and Paper. | Iron and Its Products. | Non-Ferrous Metals and Their Products. | Non-Metallic Minerals and Their Products. | Chemicals and Allied Products. | All Commodities. |
|-----------------------------------------|---------------------|-----------------------------|----------------------------------------|--------------------------------|------------------------|----------------------------------------|-------------------------------------------|--------------------------------|------------------|
| Numbers of Commodity Price Series Used. |                     |                             |                                        |                                |                        |                                        |                                           |                                |                  |
| 1913-25.....                            | 67                  | 50                          | 28                                     | 21                             | 26                     | 15                                     | 16                                        | 13                             | 236              |
| 1926-33.....                            | 124                 | 74                          | 60                                     | 44                             | 39                     | 15                                     | 73                                        | 73                             | 502              |
| 1934.....                               | 135                 | 76                          | 85                                     | 49                             | 44                     | 18                                     | 83                                        | 77                             | 567              |
| Index Numbers.                          |                     |                             |                                        |                                |                        |                                        |                                           |                                |                  |
| 1934. <sup>1</sup>                      |                     |                             |                                        |                                |                        |                                        |                                           |                                |                  |
| January.....                            | 64.4                | 65.7                        | 72.7                                   | 65.1                           | 86.6                   | 67.0                                   | 86.0                                      | 80.6                           | 70.7             |
| February.....                           | 65.6                | 70.6                        | 77.4                                   | 65.2                           | 87.1                   | 66.8                                   | 86.2                                      | 80.5                           | 72.1             |
| March.....                              | 65.8                | 70.4                        | 74.5                                   | 65.3                           | 87.2                   | 66.0                                   | 86.2                                      | 81.0                           | 72.1             |
| April.....                              | 64.5                | 67.8                        | 74.4                                   | 65.5                           | 87.2                   | 65.7                                   | 85.7                                      | 81.6                           | 71.3             |
| May.....                                | 65.2                | 65.9                        | 74.2                                   | 65.7                           | 87.4                   | 64.5                                   | 85.5                                      | 81.9                           | 71.1             |
| June.....                               | 67.4                | 67.1                        | 73.8                                   | 66.2                           | 87.5                   | 64.1                                   | 85.6                                      | 81.9                           | 72.0             |
| July.....                               | 68.5                | 65.0                        | 72.9                                   | 65.8                           | 87.1                   | 63.2                                   | 86.1                                      | 81.8                           | 72.0             |
| August.....                             | 70.0                | 65.6                        | 72.0                                   | 65.4                           | 87.1                   | 63.0                                   | 86.1                                      | 81.5                           | 72.2             |
| September.....                          | 68.6                | 67.4                        | 71.8                                   | 65.3                           | 86.6                   | 62.1                                   | 86.1                                      | 81.7                           | 71.9             |
| October.....                            | 66.6                | 67.8                        | 71.4                                   | 65.2                           | 86.7                   | 62.2                                   | 86.1                                      | 80.5                           | 71.3             |
| November.....                           | 66.5                | 66.7                        | 71.3                                   | 64.9                           | 86.7                   | 63.1                                   | 86.0                                      | 80.3                           | 71.1             |
| December.....                           | 66.7                | 66.2                        | 71.5                                   | 64.5                           | 86.8                   | 63.7                                   | 86.1                                      | 80.4                           | 71.1             |

<sup>1</sup>Subject to revision.

### 4.—Index Numbers of Wholesale Prices of Commodities, Classified According to Purpose, by Yearly Averages, 1914-34, and by Months, 1932-34.

(1926=100.)

| Year and Month.                         | Consumers Goods. |                               |        | Producers Goods. |                       |                      |                             |                   | All Commodities. |
|-----------------------------------------|------------------|-------------------------------|--------|------------------|-----------------------|----------------------|-----------------------------|-------------------|------------------|
|                                         | All.             | Foods, Beverages and Tobacco. | Other. | All.             | Producers' Equip-ment | Producers Materials. |                             |                   |                  |
|                                         |                  |                               |        |                  |                       | All.                 | Building and Con-struction. | Manu-fact-urers'. |                  |
| Numbers of Commodity Price Series Used. |                  |                               |        |                  |                       |                      |                             |                   |                  |
| 1913-25.....                            | 98               | 74                            | 24     | 146              | 15                    | 131                  | 32                          | 99                | 236              |
| 1926-33.....                            | 204              | 116                           | 88     | 351              | 22                    | 329                  | 97                          | 232               | 502              |
| 1934.....                               | 236              | 126                           | 110    | 402              | 24                    | 378                  | 111                         | 267               | 567              |
| Index numbers.                          |                  |                               |        |                  |                       |                      |                             |                   |                  |
| 1914.....                               | 62.7             | 65.2                          | 59.7   | 69.7             | 52.0                  | 72.1                 | 62.9                        | 74.3              | 65.5             |
| 1915.....                               | 65.6             | 68.6                          | 61.8   | 77.0             | 53.1                  | 80.2                 | 60.5                        | 84.8              | 70.4             |
| 1916.....                               | 74.7             | 81.7                          | 65.8   | 88.1             | 55.7                  | 92.5                 | 69.6                        | 97.9              | 84.3             |
| 1917.....                               | 95.4             | 109.4                         | 77.6   | 119.6            | 69.6                  | 126.3                | 87.6                        | 135.5             | 114.3            |
| 1918.....                               | 107.0            | 119.4                         | 91.4   | 131.5            | 80.4                  | 138.3                | 100.9                       | 147.2             | 127.4            |
| 1919.....                               | 118.7            | 128.2                         | 106.7  | 139.0            | 90.7                  | 145.5                | 117.3                       | 152.2             | 133.9            |



## 4.—Index Numbers of Wholesale Prices of Commodities, Classified According to Purpose, by Yearly Averages, 1914-34, and by Months, 1932-34—concluded.

(1926=100.)

| Year and Month.                         | Consumers Goods. |                               |                   | Producers Goods.  |                        |                       |                             |                   | All Commodities.  |
|-----------------------------------------|------------------|-------------------------------|-------------------|-------------------|------------------------|-----------------------|-----------------------------|-------------------|-------------------|
|                                         | All.             | Foods, Beverages and Tobacco. | Other.            | All.              | Producers' Equip-ment. | Producers' Materials. |                             |                   |                   |
|                                         |                  |                               |                   |                   |                        | All.                  | Building and Con-struction. | Manu-factur-ers'. |                   |
| Numbers of Commodity Price Series Used. |                  |                               |                   |                   |                        |                       |                             |                   |                   |
| 1913-25.....                            | 98               | 74                            | 24                | 146               | 15                     | 131                   | 32                          | 99                | 236               |
| 1926-33.....                            | 204              | 116                           | 88                | 351               | 22                     | 329                   | 97                          | 232               | 502               |
| 1934.....                               | 236              | 126                           | 110               | 402               | 24                     | 378                   | 111                         | 267               | 567               |
| Index Numbers.                          |                  |                               |                   |                   |                        |                       |                             |                   |                   |
| 1920.....                               | 140.0            | 151.0                         | 126.3             | 163.1             | 108.6                  | 170.4                 | 144.0                       | 176.6             | 155.9             |
| 1921.....                               | 108.0            | 105.4                         | 111.4             | 112.8             | 113.8                  | 112.6                 | 122.8                       | 110.2             | 110.0             |
| 1922.....                               | 95.1             | 90.2                          | 101.4             | 99.1              | 104.1                  | 98.2                  | 108.7                       | 95.8              | 97.3              |
| 1923.....                               | 93.7             | 91.2                          | 97.0              | 97.8              | 102.5                  | 97.1                  | 111.9                       | 93.7              | 98.0              |
| 1924.....                               | 93.2             | 90.4                          | 96.8              | 99.5              | 102.7                  | 99.0                  | 106.6                       | 97.5              | 99.4              |
| 1925.....                               | 97.2             | 97.7                          | 96.5              | 104.9             | 99.2                   | 105.5                 | 102.9                       | 106.2             | 102.6             |
| 1926.....                               | 100.0            | 100.0                         | 100.0             | 100.0             | 100.0                  | 100.0                 | 100.0                       | 100.0             | 100.0             |
| 1927.....                               | 95.7             | 99.4                          | 93.3              | 98.5              | 101.1                  | 98.2 <sup>2</sup>     | 96.1                        | 98.6 <sup>2</sup> | 97.7              |
| 1928.....                               | 95.6             | 99.6                          | 92.9              | 96.7              | 93.7                   | 97.0                  | 97.4                        | 96.9 <sup>2</sup> | 96.4 <sup>2</sup> |
| 1929.....                               | 94.7             | 100.0                         | 91.1              | 96.1 <sup>2</sup> | 94.6                   | 96.3 <sup>2</sup>     | 99.0                        | 95.9              | 95.6              |
| 1930.....                               | 89.3             | 93.1                          | 86.8              | 82.5 <sup>2</sup> | 92.9                   | 81.7                  | 90.8                        | 79.7              | 86.6              |
| 1931.....                               | 76.2             | 70.4                          | 80.0              | 67.1 <sup>2</sup> | 90.0                   | 64.6 <sup>2</sup>     | 81.9                        | 61.7              | 72.1              |
| 1932.....                               | 71.3             | 61.5                          | 77.8 <sup>2</sup> | 62.4 <sup>2</sup> | 88.7                   | 59.5 <sup>2</sup>     | 77.2                        | 56.5              | 66.7              |
| 1933.....                               | 71.1             | 63.8                          | 76.0              | 63.1              | 86.0                   | 60.5                  | 78.3                        | 57.5              | 67.1              |
| 1934 <sup>1</sup> .....                 | 74.1             | 69.7                          | 77.0              | 67.8              | 88.9                   | 65.5                  | 82.5                        | 62.6              | 71.6              |
| 1932.                                   |                  |                               |                   |                   |                        |                       |                             |                   |                   |
| January.....                            | 73.1             | 64.5                          | 78.9              | 66.0 <sup>2</sup> | 91.1                   | 63.2 <sup>2</sup>     | 79.4                        | 60.4              | 69.5 <sup>2</sup> |
| February.....                           | 72.5             | 63.0                          | 78.8              | 65.8 <sup>2</sup> | 91.1                   | 63.0 <sup>2</sup>     | 79.3                        | 60.2              | 68.9              |
| March.....                              | 72.5             | 64.2                          | 78.0              | 65.3 <sup>2</sup> | 90.8                   | 62.5 <sup>2</sup>     | 78.9                        | 59.7              | 69.0              |
| April.....                              | 71.3             | 62.4                          | 77.3              | 64.8 <sup>2</sup> | 90.7                   | 61.9 <sup>2</sup>     | 78.7                        | 59.1 <sup>2</sup> | 68.2              |
| May.....                                | 70.9             | 60.8                          | 77.7              | 63.9 <sup>2</sup> | 88.2                   | 61.2 <sup>2</sup>     | 77.8                        | 58.4 <sup>2</sup> | 67.4              |
| June.....                               | 70.5             | 59.7                          | 77.7              | 62.4 <sup>2</sup> | 88.1                   | 59.5 <sup>2</sup>     | 76.8                        | 56.6              | 66.4              |
| July.....                               | 71.0             | 61.3                          | 77.4              | 62.2 <sup>2</sup> | 88.1                   | 59.3 <sup>2</sup>     | 75.6                        | 56.5              | 66.5 <sup>2</sup> |
| August.....                             | 71.1             | 61.3                          | 77.6 <sup>2</sup> | 62.5 <sup>2</sup> | 88.1                   | 59.7 <sup>2</sup>     | 75.3                        | 57.0              | 66.7              |
| September.....                          | 71.6             | 62.2                          | 77.8              | 60.7 <sup>2</sup> | 88.1                   | 57.7 <sup>2</sup>     | 76.2                        | 54.6              | 65.9              |
| October.....                            | 70.8             | 60.8                          | 77.4 <sup>2</sup> | 59.4 <sup>2</sup> | 86.8                   | 56.3 <sup>2</sup>     | 76.5                        | 52.9              | 65.0              |
| November.....                           | 70.3             | 60.0                          | 77.1 <sup>2</sup> | 58.9 <sup>2</sup> | 86.0                   | 55.9 <sup>2</sup>     | 76.6                        | 52.4              | 64.7              |
| December.....                           | 70.0             | 59.5                          | 77.0 <sup>2</sup> | 57.7 <sup>2</sup> | 87.7                   | 54.4 <sup>2</sup>     | 75.7                        | 50.8              | 64.0              |
| 1933.                                   |                  |                               |                   |                   |                        |                       |                             |                   |                   |
| January.....                            | 69.7             | 59.3                          | 76.6              | 57.8              | 87.7                   | 54.5                  | 75.7                        | 50.9              | 63.8              |
| February.....                           | 68.7             | 58.0                          | 75.8              | 58.1              | 87.0                   | 54.9                  | 74.7                        | 51.5              | 63.5              |
| March.....                              | 69.3             | 59.8                          | 75.7              | 59.5              | 87.1                   | 56.4                  | 75.1                        | 53.2              | 64.3              |
| April.....                              | 70.2             | 63.7                          | 74.6              | 60.0              | 87.3                   | 57.0                  | 74.8                        | 54.0              | 65.3              |
| May.....                                | 70.8             | 64.3                          | 75.1              | 63.2              | 84.9                   | 60.8                  | 75.6                        | 58.3              | 66.7              |
| June.....                               | 70.4             | 63.9                          | 74.8              | 64.6              | 84.8                   | 62.4                  | 78.9                        | 59.6              | 67.5              |
| July.....                               | 72.2             | 67.7                          | 75.2              | 69.2              | 84.8                   | 67.5                  | 80.8                        | 65.2              | 70.5              |
| August.....                             | 72.1             | 66.6                          | 75.9              | 66.8              | 84.9                   | 64.8                  | 80.7                        | 62.1              | 69.5              |
| September.....                          | 72.7             | 65.7                          | 77.3              | 65.6              | 85.6                   | 63.4                  | 80.8                        | 60.4              | 68.9              |
| October.....                            | 72.1             | 64.7                          | 77.1              | 63.4              | 85.4                   | 60.9                  | 81.0                        | 57.5              | 67.9              |
| November.....                           | 73.0             | 67.1                          | 77.0              | 64.3              | 85.4                   | 62.0                  | 80.7                        | 58.8              | 68.9              |
| December.....                           | 73.3             | 67.4                          | 77.3              | 64.3              | 87.2                   | 61.8                  | 80.6                        | 58.6              | 69.0              |
| 1934. <sup>1</sup>                      |                  |                               |                   |                   |                        |                       |                             |                   |                   |
| January.....                            | 74.2             | 69.1                          | 77.5              | 66.0              | 87.9                   | 63.6                  | 81.9                        | 60.5              | 70.7              |
| February.....                           | 75.9             | 73.1                          | 77.8              | 67.0              | 87.9                   | 64.7                  | 82.3                        | 61.7              | 72.1              |
| March.....                              | 75.8             | 72.5                          | 78.0              | 67.1              | 87.9                   | 64.8                  | 82.2                        | 61.8              | 72.1              |
| April.....                              | 74.3             | 69.9                          | 77.4              | 66.6              | 87.9                   | 64.2                  | 82.9                        | 61.0              | 71.3              |
| May.....                                | 73.3             | 68.0                          | 77.1              | 67.2              | 89.1                   | 64.8                  | 83.1                        | 61.7              | 71.1              |
| June.....                               | 74.3             | 69.5                          | 77.1              | 68.8              | 89.2                   | 66.5                  | 83.9                        | 63.6              | 72.0              |
| July.....                               | 73.9             | 69.2                          | 76.7              | 69.1              | 89.7                   | 66.8                  | 83.2                        | 64.0              | 72.0              |
| August.....                             | 73.9             | 68.9                          | 76.6              | 69.8              | 89.6                   | 67.6                  | 82.8                        | 65.0              | 72.2              |
| September.....                          | 74.1             | 69.4                          | 76.7              | 68.9              | 89.5                   | 66.6                  | 82.7                        | 63.9              | 71.9              |
| October.....                            | 73.8             | 69.1                          | 76.4              | 67.7              | 89.5                   | 65.3                  | 82.4                        | 62.4              | 71.3              |
| November.....                           | 73.3             | 68.2                          | 76.2              | 67.9              | 89.5                   | 65.5                  | 81.8                        | 62.7              | 71.1              |
| December.....                           | 73.2             | 67.9                          | 76.3              | 68.3              | 89.6                   | 65.9                  | 81.4                        | 63.3              | 71.1              |

<sup>1</sup>Subject to revision.<sup>2</sup>Revised since the publication of the 1933 Year Book.

**5.—Weighted Index Numbers of Wholesale Prices of Commodities, Classified According to Origin and Degree of Manufacture, by Yearly Averages, 1918-34.**  
(1926=100.)

| Item.                                                           | Numbers of Commodities. |          |       | 1918. | 1919. | 1920. | 1921. | 1922. | 1923. | 1924. |
|-----------------------------------------------------------------|-------------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                                                 | 1913-25.                | 1926-33. | 1934. |       |       |       |       |       |       |       |
| Aggregate Combined Indexes, Raw and Partly Manufactured.....    | 107                     | 232      | 245   | 120.7 | 131.5 | 155.7 | 107.5 | 94.8  | 91.1  | 94.8  |
| Aggregate Combined Indexes, Fully and Chiefly Manufactured..... | 129                     | 276      | 322   | 127.6 | 132.5 | 156.8 | 116.7 | 100.5 | 103.1 | 101.9 |
| Articles of Farm Origin— <sup>1</sup>                           |                         |          |       |       |       |       |       |       |       |       |
| 1. Field (Grains, etc.)—                                        |                         |          |       |       |       |       |       |       |       |       |
| (a) Raw and partly manufactured.....                            | 46                      | 98       | 95    | 133.0 | 145.3 | 176.9 | 101.8 | 86.3  | 83.6  | 89.4  |
| (b) Fully and chiefly manufactured.....                         | 41                      | 69       | 91    | 136.6 | 140.5 | 175.8 | 110.5 | 95.3  | 101.1 | 102.7 |
| (c) Combined indexes.....                                       | 87                      | 167      | 186   | 131.3 | 139.3 | 169.5 | 103.4 | 89.1  | 89.3  | 93.9  |
| 2. Animal—                                                      |                         |          |       |       |       |       |       |       |       |       |
| (a) Raw and partly manufactured.....                            | 25                      | 41       | 46    | 134.6 | 146.6 | 147.1 | 104.7 | 95.4  | 90.9  | 91.5  |
| (b) Fully and chiefly manufactured.....                         | 28                      | 49       | 59    | 126.0 | 141.4 | 146.3 | 113.1 | 96.4  | 99.5  | 90.4  |
| (c) Combined indexes.....                                       | 53                      | 90       | 105   | 129.9 | 143.0 | 146.6 | 109.6 | 95.5  | 95.6  | 92.0  |
| Canadian Farm Products—                                         |                         |          |       |       |       |       |       |       |       |       |
| 1. Field (grains, etc.).....                                    | 20                      | 46       | 52    | 132.0 | 142.4 | 166.5 | 100.3 | 81.3  | 73.3  | 82.6  |
| 2. Animal.....                                                  | 16                      | 13       | 18    | 134.3 | 152.0 | 149.5 | 108.1 | 98.8  | 94.9  | 96.9  |
| 3. Combined indexes.....                                        | 36                      | 59       | 70    | 132.7 | 145.3 | 161.4 | 102.6 | 86.6  | 79.8  | 86.9  |
| Articles of Marine Origin—                                      |                         |          |       |       |       |       |       |       |       |       |
| (a) Raw and partly manufactured.....                            | 2                       | 5        | 5     | 119.1 | 127.8 | 133.7 | 91.6  | 90.2  | 99.5  | 95.8  |
| (b) Fully and chiefly manufactured.....                         | 6                       | 11       | 11    | 109.2 | 111.3 | 106.9 | 91.6  | 92.2  | 80.1  | 91.8  |
| (c) Combined indexes.....                                       | 8                       | 16       | 16    | 111.1 | 114.3 | 111.7 | 91.6  | 91.9  | 83.6  | 92.5  |
| Articles of Forest Origin—                                      |                         |          |       |       |       |       |       |       |       |       |
| (a) Raw and partly manufactured.....                            | 16                      | 31       | 37    | 89.3  | 111.4 | 156.9 | 123.4 | 103.0 | 113.1 | 104.7 |
| (b) Fully and chiefly manufactured.....                         | 5                       | 21       | 20    | 88.6  | 104.2 | 146.4 | 148.6 | 107.4 | 112.6 | 110.1 |
| (c) Combined indexes.....                                       | 21                      | 52       | 57    | 89.1  | 109.6 | 154.4 | 129.4 | 106.3 | 113.0 | 105.9 |
| Articles of Mineral Origin—                                     |                         |          |       |       |       |       |       |       |       |       |
| (a) Raw and partly manufactured.....                            | 18                      | 57       | 62    | 103.8 | 105.3 | 125.2 | 111.5 | 103.4 | 105.5 | 101.7 |
| (b) Fully and chiefly manufactured.....                         | 49                      | 126      | 141   | 123.2 | 121.7 | 142.6 | 123.3 | 108.8 | 107.4 | 107.0 |
| (c) Combined indexes.....                                       | 67                      | 183      | 203   | 111.3 | 112.4 | 131.4 | 117.6 | 105.8 | 105.8 | 104.6 |

| Item.                                                           | 1925. | 1926. | 1927. | 1928. | 1929. | 1930. | 1931. | 1932. | 1933. | 1934. <sup>1</sup> |
|-----------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| Aggregate Combined Indexes, Raw and Partly Manufactured.....    | 100.8 | 100.0 | 99.9  | 97.4  | 97.5  | 82.2  | 61.9  | 55.0  | 56.6  | —                  |
| Aggregate Combined Indexes, Fully and Chiefly Manufactured..... | 103.8 | 100.0 | 96.5  | 95.0  | 93.0  | 87.3  | 74.8  | 69.8  | 70.2  | 73.4               |
| Articles of Farm Origin— <sup>1</sup>                           |       |       |       |       |       |       |       |       |       |                    |
| 1. Field (Grains, etc.)—                                        |       |       |       |       |       |       |       |       |       |                    |
| (a) Raw and partly manufactured..                               | 100.6 | 100.0 | 99.0  | 90.2  | 89.5  | 67.4  | 44.0  | 41.0  | 45.3  | —                  |
| (b) Fully and chiefly manufactured..                            | 106.9 | 100.0 | 96.9  | 93.9  | 90.7  | 84.0  | 69.5  | 67.1  | 71.2  | 74.0               |
| (c) Combined indexes.....                                       | 102.3 | 100.0 | 97.9  | 92.2  | 90.1  | 76.3  | 57.7  | 55.1  | 59.3  | —                  |
| 2. Animal—                                                      |       |       |       |       |       |       |       |       |       |                    |
| (a) Raw and partly manufactured..                               | 100.5 | 100.0 | 106.6 | 114.7 | 114.7 | 103.7 | 76.8  | 59.9  | 59.0  | 66.0               |
| (b) Fully and chiefly manufactured..                            | 100.6 | 100.0 | 95.8  | 97.7  | 98.5  | 89.4  | 71.6  | 61.1  | 62.5  | 69.8               |
| (c) Combined indexes.....                                       | 100.6 | 100.0 | 100.5 | 105.1 | 105.5 | 95.6  | 73.9  | 60.6  | 61.0  | 68.2               |
| Canadian Farm Products—                                         |       |       |       |       |       |       |       |       |       |                    |
| 1. Field (grains, etc.).....                                    | 98.1  | 100.0 | 99.9  | 92.6  | 93.8  | 70.0  | 43.6  | 41.1  | 45.8  | 53.8               |
| 2. Animal.....                                                  | 105.4 | 100.0 | 105.7 | 114.3 | 112.5 | 102.9 | 77.6  | 60.7  | 59.7  | 67.7               |
| 3. Combined indexes.....                                        | 100.3 | 100.0 | 102.1 | 100.7 | 100.8 | 82.3  | 56.3  | 48.4  | 51.0  | 59.0               |
| Articles of Marine Origin—                                      |       |       |       |       |       |       |       |       |       |                    |
| (a) Raw and partly manufactured..                               | 94.4  | 100.0 | 96.7  | 91.5  | 96.8  | 86.9  | 70.3  | 56.2  | 56.2  | 60.3               |
| (b) Fully and chiefly manufactured..                            | 99.1  | 100.0 | 101.5 | 104.0 | 108.5 | 98.4  | 77.6  | 66.6  | 65.4  | 75.1               |
| (c) Combined indexes.....                                       | 98.3  | 100.0 | 100.2 | 100.6 | 105.3 | 95.3  | 75.6  | 63.8  | 62.9  | 71.1               |
| Articles of Forest Origin—                                      |       |       |       |       |       |       |       |       |       |                    |
| (a) Raw and partly manufactured..                               | 100.3 | 100.0 | 97.0  | 99.4  | 100.5 | 90.9  | 79.4  | 69.6  | 69.7  | 76.2               |
| (b) Fully and chiefly manufactured..                            | 105.9 | 100.0 | 99.5  | 97.9  | 87.8  | 86.4  | 78.7  | 68.9  | 57.2  | 56.1               |
| (c) Combined indexes.....                                       | 101.6 | 100.0 | 98.3  | 98.6  | 93.7  | 88.5  | 79.0  | 69.2  | 63.0  | 65.5               |
| Articles of Mineral Origin—                                     |       |       |       |       |       |       |       |       |       |                    |
| (a) Raw and partly manufactured..                               | 101.8 | 100.0 | 94.6  | 91.2  | 92.7  | 86.1  | 77.9  | 77.0  | 75.6  | 77.5               |
| (b) Fully and chiefly manufactured..                            | 101.6 | 100.0 | 94.6  | 91.8  | 92.8  | 90.3  | 85.1  | 84.8  | 84.6  | 86.0               |
| (c) Combined indexes.....                                       | 101.6 | 100.0 | 94.6  | 91.5  | 92.8  | 88.4  | 81.9  | 81.3  | 80.6  | 82.2               |

<sup>1</sup>Subject to revision.    <sup>2</sup>Domestic and foreign.

# 6.—Weighted Index Numbers of Wholesale Prices of Commodities, Classified According to Origin and Degree of Manufacture, by Months, 1930-34.

(1926=100.)

NOTE.—Comparable figures for the years 1926-29 will be found on pp. 807-809 of the 1933 Year Book.

| Origin and Year.                                                   | Jan.  | Feb.  | Mar.  | April. | May.  | June. | July. | Aug.              | Sept. | Oct. | Nov. | Dec. |
|--------------------------------------------------------------------|-------|-------|-------|--------|-------|-------|-------|-------------------|-------|------|------|------|
| <b>Aggregate Combined Indexes, Raw and Partly Manufactured</b>     |       |       |       |        |       |       |       |                   |       |      |      |      |
| 1930.....                                                          | 97.6  | 94.0  | 89.8  | 90.3   | 88.5  | 94.6  | 80.0  | 77.1              | 74.0  | 73.3 | 70.4 | 67.3 |
| 1931.....                                                          | 66.4  | 65.8  | 64.4  | 64.1   | 62.7  | 61.3  | 60.4  | 59.5              | 58.5  | 59.7 | 61.4 | 60.2 |
| 1932.....                                                          | 59.4  | 58.7  | 58.0  | 56.8   | 55.4  | 53.8  | 54.6  | 54.7              | 54.2  | 52.5 | 52.2 | 51.0 |
| 1933.....                                                          | 51.2  | 50.6  | 52.1  | 53.0   | 56.0  | 57.6  | 62.9  | 60.9              | 59.9  | 57.5 | 59.3 | 58.9 |
| 1934 <sup>1</sup> .....                                            | 61.0  | 62.9  | 62.1  | 61.3   | 62.2  | 64.5  | 64.7  | 65.2              | 64.6  | 64.4 | 64.3 | 64.3 |
| <b>Aggregate Combined Indexes, Fully and Chiefly Manufactured—</b> |       |       |       |        |       |       |       |                   |       |      |      |      |
| 1930.....                                                          | 92.6  | 92.3  | 91.3  | 90.0   | 88.9  | 87.2  | 85.8  | 85.4              | 84.8  | 83.9 | 82.8 | 81.5 |
| 1931.....                                                          | 79.0  | 78.6  | 78.0  | 76.5   | 74.5  | 74.0  | 74.1  | 73.2              | 72.4  | 72.2 | 72.7 | 72.6 |
| 1932.....                                                          | 71.3  | 70.7  | 71.5  | 70.9   | 70.3  | 69.4  | 69.5  | 70.3 <sup>2</sup> | 69.3  | 68.8 | 68.3 | 67.8 |
| 1933.....                                                          | 67.2  | 66.8  | 67.8  | 69.6   | 70.4  | 70.2  | 72.4  | 71.7              | 71.5  | 71.2 | 71.7 | 72.0 |
| 1934 <sup>1</sup> .....                                            | 73.1  | 74.6  | 75.1  | 74.0   | 73.0  | 73.0  | 73.1  | 73.4              | 73.5  | 72.8 | 72.4 | 72.5 |
| <b>I. Articles of Farm Origin (Domestic and Foreign)—</b>          |       |       |       |        |       |       |       |                   |       |      |      |      |
| <b>A. Field (Grains, Fruits, Cotton, etc.)—</b>                    |       |       |       |        |       |       |       |                   |       |      |      |      |
| <b>Raw and Partly Manufactured—</b>                                |       |       |       |        |       |       |       |                   |       |      |      |      |
| 1930.....                                                          | 86.7  | 81.3  | 75.9  | 78.3   | 77.2  | 74.8  | 68.4  | 63.9              | 56.5  | 53.3 | 49.1 | 44.2 |
| 1931.....                                                          | 43.4  | 45.3  | 44.7  | 45.9   | 45.8  | 45.7  | 44.3  | 42.3              | 41.1  | 42.9 | 46.6 | 43.7 |
| 1932.....                                                          | 43.0  | 43.8  | 43.8  | 43.5   | 43.4  | 40.5  | 42.5  | 42.7              | 40.3  | 37.8 | 37.3 | 34.4 |
| 1933.....                                                          | 35.1  | 35.8  | 38.3  | 40.7   | 46.5  | 48.8  | 58.6  | 53.5              | 49.4  | 44.4 | 46.3 | 45.3 |
| 1934 <sup>1</sup> .....                                            |       |       |       |        |       |       |       |                   |       |      |      |      |
| <b>Fully and Chiefly Manufactured—</b>                             |       |       |       |        |       |       |       |                   |       |      |      |      |
| 1930.....                                                          | 92.0  | 91.0  | 89.3  | 88.2   | 87.1  | 85.2  | 83.3  | 82.5              | 80.2  | 78.1 | 75.8 | 74.4 |
| 1931.....                                                          | 71.8  | 71.9  | 71.8  | 71.4   | 70.4  | 69.5  | 68.7  | 67.7              | 66.7  | 66.6 | 69.0 | 68.6 |
| 1932.....                                                          | 68.1  | 68.2  | 68.8  | 68.7   | 67.9  | 66.5  | 66.5  | 67.1              | 66.6  | 65.9 | 66.0 | 65.3 |
| 1933.....                                                          | 64.6  | 64.2  | 64.7  | 70.2   | 73.2  | 72.5  | 77.3  | 75.0              | 74.1  | 72.7 | 73.3 | 73.2 |
| 1934 <sup>1</sup> .....                                            | 74.5  | 75.4  | 75.5  | 74.1   | 73.6  | 73.0  | 73.6  | 74.3              | 73.8  | 73.1 | 73.0 | 73.3 |
| <b>Combined Indexes—</b>                                           |       |       |       |        |       |       |       |                   |       |      |      |      |
| 1930.....                                                          | 89.6  | 86.5  | 83.1  | 83.6   | 82.5  | 80.4  | 76.4  | 73.9              | 69.3  | 66.7 | 63.5 | 60.5 |
| 1931.....                                                          | 58.7  | 59.6  | 59.3  | 59.6   | 59.0  | 58.5  | 57.4  | 56.0              | 54.9  | 55.7 | 58.7 | 57.1 |
| 1932.....                                                          | 56.5  | 56.9  | 57.3  | 57.1   | 56.6  | 54.5  | 55.4  | 55.8              | 54.5  | 52.9 | 52.8 | 51.0 |
| 1933.....                                                          | 51.0  | 51.1  | 52.5  | 56.6   | 60.9  | 61.6  | 68.7  | 65.1              | 62.7  | 59.6 | 60.8 | 60.3 |
| 1934 <sup>1</sup> .....                                            |       |       |       |        |       |       |       |                   |       |      |      |      |
| <b>B. Animal—</b>                                                  |       |       |       |        |       |       |       |                   |       |      |      |      |
| <b>Raw and Partly Manufactured—</b>                                |       |       |       |        |       |       |       |                   |       |      |      |      |
| 1930.....                                                          | 121.1 | 117.8 | 113.1 | 111.9  | 110.1 | 99.7  | 95.0  | 93.2              | 94.2  | 98.4 | 95.9 | 93.4 |
| 1931.....                                                          | 92.1  | 86.9  | 83.4  | 81.1   | 77.0  | 72.7  | 72.3  | 73.3              | 71.5  | 71.1 | 71.0 | 69.8 |
| 1932.....                                                          | 68.9  | 65.3  | 64.3  | 60.7   | 57.6  | 57.4  | 57.4  | 57.2              | 59.4  | 57.7 | 56.6 | 57.6 |
| 1933.....                                                          | 57.9  | 55.0  | 55.9  | 56.2   | 57.7  | 57.4  | 58.5  | 59.9              | 62.2  | 62.0 | 65.3 | 65.1 |
| 1934 <sup>1</sup> .....                                            | 65.9  | 69.6  | 67.1  | 65.8   | 65.6  | 65.8  | 63.3  | 61.7              | 63.4  | 67.9 | 67.9 | 67.8 |
| <b>Fully and Chiefly Manufactured—</b>                             |       |       |       |        |       |       |       |                   |       |      |      |      |
| 1930.....                                                          | 95.6  | 96.1  | 95.2  | 92.6   | 90.7  | 87.5  | 85.4  | 85.3              | 86.7  | 86.6 | 86.6 | 83.9 |
| 1931.....                                                          | 81.7  | 80.3  | 77.8  | 75.2   | 69.7  | 69.3  | 71.1  | 69.6              | 67.4  | 66.4 | 65.2 | 64.8 |
| 1932.....                                                          | 63.1  | 61.2  | 63.5  | 61.4   | 59.2  | 58.2  | 59.0  | 61.2              | 63.3  | 62.8 | 60.6 | 59.7 |
| 1933.....                                                          | 59.2  | 58.9  | 62.3  | 63.8   | 61.9  | 61.9  | 63.0  | 63.3              | 63.0  | 63.1 | 64.0 | 65.4 |
| 1934 <sup>1</sup> .....                                            | 67.6  | 72.0  | 73.9  | 71.7   | 68.8  | 69.6  | 69.3  | 69.5              | 70.7  | 68.9 | 67.7 | 67.6 |

<sup>1</sup> Subject to revision.<sup>2</sup> Revised since the publication of the 1933 Year Book.

**6.—Weighted Index Numbers of Wholesale Prices of Commodities, Classified According to Origin and Degree of Manufacture, by Months, 1930-34—continued.**

(1926=100.)

| Origin and Year.                                                    | Jan.  | Feb.  | Mar.  | April. | May  | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
|---------------------------------------------------------------------|-------|-------|-------|--------|------|-------|-------|------|-------|------|------|------|
| <b>I. Articles of Farm Origin (Domestic and Foreign)—concluded.</b> |       |       |       |        |      |       |       |      |       |      |      |      |
| <b>B. Animal—</b>                                                   |       |       |       |        |      |       |       |      |       |      |      |      |
| Combined Indexes—                                                   |       |       |       |        |      |       |       |      |       |      |      |      |
| 1930.....                                                           | 106.7 | 105.5 | 103.0 | 101.0  | 99.1 | 92.8  | 89.6  | 88.7 | 90.0  | 91.7 | 90.6 | 88.0 |
| 1931.....                                                           | 86.2  | 83.2  | 80.2  | 77.8   | 72.9 | 70.8  | 71.0  | 71.2 | 69.2  | 68.4 | 67.7 | 67.0 |
| 1932.....                                                           | 65.6  | 63.0  | 63.8  | 61.1   | 58.5 | 57.9  | 58.3  | 59.5 | 61.6  | 60.6 | 58.9 | 58.8 |
| 1933.....                                                           | 58.6  | 57.2  | 59.5  | 60.5   | 60.1 | 59.9  | 61.0  | 61.8 | 62.7  | 62.6 | 64.6 | 65.3 |
| 1934 <sup>1</sup> .....                                             | 66.9  | 71.0  | 71.0  | 69.1   | 67.4 | 68.0  | 66.7  | 66.1 | 67.5  | 68.5 | 67.8 | 67.7 |
| <b>II. Articles of Marine Origin—</b>                               |       |       |       |        |      |       |       |      |       |      |      |      |
| Raw and Partly Manufactured—                                        |       |       |       |        |      |       |       |      |       |      |      |      |
| 1930.....                                                           | 101.7 | 98.1  | 83.3  | 80.0   | 82.0 | 86.0  | 83.0  | 70.9 | 87.1  | 97.9 | 90.8 | 81.7 |
| 1931.....                                                           | 80.9  | 72.9  | 72.9  | 68.8   | 63.8 | 64.2  | 60.7  | 64.7 | 69.6  | 76.6 | 77.7 | 69.5 |
| 1932.....                                                           | 65.5  | 61.5  | 58.3  | 59.5   | 59.0 | 50.7  | 50.4  | 48.6 | 54.4  | 55.6 | 56.5 | 54.5 |
| 1933.....                                                           | 54.5  | 44.6  | 49.6  | 46.6   | 48.1 | 54.8  | 56.5  | 59.2 | 63.3  | 67.5 | 71.0 | 58.9 |
| 1934 <sup>1</sup> .....                                             | 59.8  | 60.4  | 58.7  | 56.6   | 56.6 | 58.3  | 53.4  | 60.6 | 69.0  | 74.6 | 65.9 | 53.8 |
| Fully and Chiefly Manufactured—                                     |       |       |       |        |      |       |       |      |       |      |      |      |
| 1930.....                                                           | 106.0 | 105.0 | 102.7 | 100.3  | 98.5 | 98.1  | 97.1  | 94.7 | 92.9  | 95.0 | 92.5 | 89.0 |
| 1931.....                                                           | 86.2  | 84.6  | 76.2  | 76.1   | 74.2 | 75.8  | 76.0  | 75.3 | 74.9  | 74.8 | 72.5 | 72.4 |
| 1932.....                                                           | 71.1  | 69.4  | 69.5  | 67.4   | 67.9 | 66.1  | 66.7  | 64.5 | 63.2  | 63.7 | 65.0 | 62.1 |
| 1933.....                                                           | 60.8  | 61.2  | 61.8  | 63.0   | 62.7 | 62.3  | 63.6  | 67.7 | 67.7  | 68.9 | 69.0 | 69.7 |
| 1934 <sup>1</sup> .....                                             | 71.9  | 72.6  | 72.2  | 72.7   | 72.7 | 73.2  | 74.2  | 74.5 | 77.7  | 78.1 | 77.7 | 76.7 |
| Combined Indexes—                                                   |       |       |       |        |      |       |       |      |       |      |      |      |
| 1930.....                                                           | 104.8 | 103.1 | 97.4  | 94.8   | 94.0 | 94.8  | 93.3  | 88.3 | 91.3  | 95.8 | 92.0 | 87.0 |
| 1931.....                                                           | 84.8  | 81.4  | 75.3  | 74.1   | 71.4 | 72.7  | 71.9  | 72.4 | 73.5  | 75.3 | 73.9 | 71.6 |
| 1932.....                                                           | 69.6  | 67.3  | 66.5  | 65.3   | 65.5 | 61.9  | 62.3  | 60.2 | 60.8  | 61.5 | 62.7 | 60.0 |
| 1933.....                                                           | 59.1  | 56.7  | 58.5  | 58.6   | 58.7 | 60.3  | 61.7  | 65.4 | 66.5  | 68.5 | 69.5 | 66.8 |
| 1934 <sup>1</sup> .....                                             | 68.6  | 69.3  | 68.5  | 68.3   | 68.3 | 69.2  | 68.6  | 70.7 | 75.3  | 77.1 | 74.5 | 70.5 |
| <b>III. Articles of Forest Origin—</b>                              |       |       |       |        |      |       |       |      |       |      |      |      |
| Raw and Partly Manufactured—                                        |       |       |       |        |      |       |       |      |       |      |      |      |
| 1930.....                                                           | 99.3  | 98.1  | 96.3  | 95.0   | 93.5 | 92.4  | 89.1  | 86.9 | 86.2  | 85.0 | 85.2 | 84.1 |
| 1931.....                                                           | 83.8  | 83.4  | 83.3  | 83.4   | 81.7 | 80.6  | 79.0  | 77.1 | 75.1  | 76.2 | 74.5 | 75.6 |
| 1932.....                                                           | 74.4  | 74.3  | 73.5  | 72.5   | 69.9 | 68.6  | 66.9  | 66.4 | 67.3  | 67.4 | 67.6 | 66.2 |
| 1933.....                                                           | 66.0  | 65.2  | 65.2  | 64.4   | 64.8 | 69.7  | 71.5  | 72.8 | 74.0  | 74.7 | 74.4 | 74.4 |
| 1934 <sup>1</sup> .....                                             | 75.7  | 76.0  | 76.2  | 76.4   | 76.8 | 77.9  | 77.2  | 76.5 | 76.3  | 76.1 | 75.2 | 74.5 |
| Fully and Chiefly Manufactured—                                     |       |       |       |        |      |       |       |      |       |      |      |      |
| 1930.....                                                           | 87.6  | 87.5  | 87.5  | 87.5   | 86.0 | 86.0  | 85.8  | 85.8 | 85.8  | 85.8 | 85.8 | 85.9 |
| 1931.....                                                           | 79.7  | 79.6  | 79.4  | 79.2   | 79.0 | 78.8  | 78.6  | 78.4 | 78.2  | 78.0 | 77.8 | 77.7 |
| 1932.....                                                           | 72.9  | 72.8  | 72.7  | 72.5   | 72.4 | 72.3  | 72.2  | 72.2 | 62.1  | 62.0 | 62.0 | 61.9 |
| 1933.....                                                           | 61.8  | 61.6  | 61.3  | 55.3   | 55.2 | 55.1  | 55.2  | 55.3 | 55.3  | 56.0 | 56.1 | 56.2 |
| 1934 <sup>1</sup> .....                                             | 56.2  | 56.2  | 56.2  | 56.3   | 56.4 | 56.4  | 56.0  | 56.0 | 55.9  | 55.9 | 55.9 | 55.9 |
| Combined Indexes—                                                   |       |       |       |        |      |       |       |      |       |      |      |      |
| 1930.....                                                           | 93.1  | 92.4  | 91.6  | 91.0   | 89.5 | 89.0  | 87.3  | 86.3 | 86.0  | 85.4 | 85.5 | 85.1 |
| 1931.....                                                           | 81.6  | 81.4  | 81.2  | 81.2   | 80.3 | 79.6  | 78.8  | 77.8 | 76.8  | 77.2 | 76.3 | 76.7 |
| 1932.....                                                           | 73.6  | 73.5  | 73.1  | 72.5   | 71.2 | 70.6  | 69.7  | 69.5 | 64.5  | 64.5 | 64.6 | 63.9 |
| 1933.....                                                           | 63.8  | 63.3  | 63.1  | 59.5   | 59.7 | 61.9  | 62.8  | 63.5 | 64.0  | 64.7 | 64.6 | 64.7 |
| 1934 <sup>1</sup> .....                                             | 65.3  | 65.4  | 65.5  | 65.7   | 65.9 | 66.4  | 65.9  | 65.6 | 65.4  | 65.3 | 64.9 | 64.6 |

<sup>1</sup> Subject to revision.



**6.—Weighted Index Numbers of Wholesale Prices of Commodities, Classified According to Origin and Degree of Manufacture, by Months, 1930-34—concluded.**

(1926=100.)

| Origin and Year.                       | Jan. | Feb. | Mar. | April. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------------------------------------|------|------|------|--------|------|-------|-------|------|-------|------|------|------|
| <b>IV. Articles of Mineral Origin—</b> |      |      |      |        |      |       |       |      |       |      |      |      |
| <b>Raw and Partly Manufactured—</b>    |      |      |      |        |      |       |       |      |       |      |      |      |
| 1930.....                              | 92.2 | 91.9 | 90.4 | 89.5   | 85.6 | 84.8  | 84.3  | 84.2 | 84.3  | 83.2 | 81.9 | 81.7 |
| 1931.....                              | 80.9 | 80.2 | 79.0 | 77.4   | 76.4 | 75.6  | 75.4  | 75.6 | 76.4  | 78.1 | 78.8 | 81.1 |
| 1932.....                              | 80.6 | 79.8 | 77.7 | 77.3   | 75.8 | 75.8  | 75.6  | 76.3 | 76.4  | 75.8 | 76.3 | 77.1 |
| 1933.....                              | 75.8 | 75.6 | 75.9 | 74.9   | 74.1 | 74.4  | 75.7  | 75.0 | 76.5  | 75.9 | 76.2 | 77.3 |
| 1934 <sup>1</sup> .....                | 77.9 | 78.0 | 77.9 | 77.1   | 77.3 | 77.3  | 77.5  | 77.5 | 77.1  | 77.3 | 77.6 | 77.8 |
| <b>Fully and Chiefly Manufactured—</b> |      |      |      |        |      |       |       |      |       |      |      |      |
| 1930.....                              | 92.2 | 92.0 | 91.8 | 91.1   | 90.8 | 90.3  | 89.9  | 89.8 | 89.6  | 89.2 | 88.7 | 88.2 |
| 1931.....                              | 87.8 | 87.4 | 88.4 | 85.6   | 84.3 | 84.0  | 84.0  | 83.8 | 84.4  | 84.7 | 84.6 | 85.2 |
| 1932.....                              | 85.1 | 84.5 | 84.4 | 84.5   | 85.3 | 85.4  | 85.1  | 84.9 | 85.0  | 84.8 | 84.6 | 84.6 |
| 1933.....                              | 84.2 | 83.3 | 83.4 | 83.6   | 83.7 | 84.2  | 84.3  | 84.7 | 85.8  | 86.1 | 86.1 | 86.1 |
| 1934 <sup>1</sup> .....                | 86.4 | 86.5 | 86.5 | 86.5   | 86.0 | 86.0  | 85.9  | 85.7 | 85.6  | 85.6 | 85.5 | 85.6 |
| <b>Combined Indexes—</b>               |      |      |      |        |      |       |       |      |       |      |      |      |
| 1930.....                              | 92.2 | 92.0 | 91.2 | 90.4   | 88.5 | 87.8  | 87.4  | 87.3 | 87.2  | 86.5 | 85.7 | 85.3 |
| 1931.....                              | 84.7 | 84.2 | 84.2 | 81.9   | 80.8 | 80.2  | 80.2  | 80.1 | 80.8  | 81.7 | 82.0 | 83.4 |
| 1932.....                              | 83.1 | 82.4 | 81.4 | 81.3   | 81.1 | 81.1  | 80.9  | 81.1 | 81.2  | 80.8 | 80.9 | 81.2 |
| 1933.....                              | 80.4 | 79.9 | 80.0 | 79.7   | 79.4 | 79.8  | 80.5  | 80.4 | 81.6  | 81.5 | 81.7 | 82.2 |
| 1934 <sup>1</sup> .....                | 82.6 | 82.7 | 82.7 | 82.3   | 82.1 | 82.1  | 82.1  | 82.0 | 81.8  | 81.9 | 82.0 | 82.1 |

<sup>1</sup> Subject to revision.

## Section 2.—Retail Prices of Commodities.

Collection of data and calculation of index numbers of retail prices and the cost of living are carried out in co-operation by the Dominion Bureau of Statistics (Department of Trade and Commerce) and the Department of Labour. Resultant series of index numbers are computed from different points of view. The computations of the Labour Department are designed to show changes in the cost of living for workingmen in cities. They are constructed from family budgets, principally a weekly family budget of staple foods, fuel and rent published monthly in the *Labour Gazette* since 1915 and annually since 1911; in addition, figures are included for clothing and sundry items and further data for fuel, light and rent. The Labour Department aims, by this method, to have a basis for computation that can be readily applied to the data for any given locality or district at any time, or for any class of labour—for instance, coal miners, who usually do not live in cities. Index numbers of retail prices and costs of living issued by the Bureau are constructed from a more general point of view, having for their object the measurement of the general movement of such prices and costs in the Dominion as a whole, and being so calculated as to make comparisons possible with other general index numbers constructed on similar principles, for example, the index of wholesale prices. Calculated as they are on the aggregative principle, *i.e.*, the total consumption of each commodity, the Bureau's index numbers afford an excellent measurement of changes in the average cost of living in the Dominion as distinguished from that of any particular class or section.

In the Bureau's index, 1926 is taken as the base year and is represented by 100 to bring it into conformity with other series of index numbers shown in this chapter. A description of the system of weighting of individual items, sub-groups and groups, and of the method of construction of this index number was given at pp. 812-818 of the 1931 Year Book. The Labour Department uses 1913 as 100 for both cost of living and wages index numbers. As will be seen from Table 7, the general cost of living index moved up from 77.7 in 1933 to 78.9 in 1934, following a steady decline from 1929 to 1933. Higher prices for foods and clothing were chiefly responsible for the advance. Rents declined from 85.1 to 80.1. The monthly index for living costs fluctuated during 1934 between 78.2 and 79.9, the December figure standing at 79.0. January and December group indexes were as follows: foods 67.7 and 69.3; fuel 87.4 and 88.4; rent 80.4 and 80.3; clothing 69.2 and 71.0; sundries 92.7 and 92.6.

### 7.—Index Numbers of Retail Prices, Rents and Costs of Services, 1913-34.

(1926=100.)

| Year.                   | Food Index. | Fuel Index.       | Rent Index. | Clothing Index. | Sundries Index.   | Total Index.      |
|-------------------------|-------------|-------------------|-------------|-----------------|-------------------|-------------------|
| 1913.....               | 66.2        | 65.8              | 64.1        | 63.3            | 66.2              | 65.4              |
| 1914.....               | 68.9        | 64.5              | 62.2        | 63.9            | 66.2              | 66.0              |
| 1915.....               | 69.5        | 63.2              | 60.3        | 69.6            | 66.9              | 67.3              |
| 1916.....               | 77.5        | 64.5              | 60.9        | 79.7            | 70.2              | 72.5              |
| 1917.....               | 100.0       | 71.7              | 65.4        | 93.7            | 76.8              | 85.6              |
| 1918.....               | 114.6       | 78.9              | 69.2        | 109.5           | 86.1              | 97.4              |
| 1919.....               | 122.5       | 86.2              | 75.6        | 125.9           | 95.4              | 107.2             |
| 1920.....               | 141.1       | 102.6             | 86.5        | 153.2           | 104.0             | 124.2             |
| 1921.....               | 107.9       | 109.2             | 94.2        | 124.7           | 106.0             | 109.2             |
| 1922.....               | 91.4        | 104.6             | 98.1        | 105.7           | 106.0             | 100.0             |
| 1923.....               | 92.1        | 104.6             | 100.6       | 104.4           | 105.3             | 100.0             |
| 1924.....               | 90.7        | 102.0             | 101.3       | 101.9           | 103.3             | 98.0              |
| 1925.....               | 94.7        | 100.0             | 101.3       | 101.9           | 101.3             | 99.3              |
| 1926.....               | 100.0       | 100.0             | 100.0       | 100.0           | 100.0             | 100.0             |
| 1927.....               | 98.0        | 97.9              | 98.8        | 97.5            | 99.1              | 98.4              |
| 1928.....               | 98.6        | 96.9              | 101.2       | 97.4            | 98.8              | 98.9              |
| 1929.....               | 101.0       | 96.4              | 103.3       | 96.9            | 99.0              | 99.9              |
| 1930.....               | 98.6        | 95.7              | 105.9       | 93.9            | 99.4              | 99.2              |
| 1931.....               | 77.3        | 94.2              | 103.0       | 82.2            | 97.4              | 89.6              |
| 1932.....               | 64.3        | 91.4 <sup>1</sup> | 94.7        | 72.8            | 94.6 <sup>2</sup> | 81.4 <sup>2</sup> |
| 1933.....               | 63.7        | 87.7              | 85.1        | 67.9            | 92.7              | 77.7              |
| 1934 <sup>1</sup> ..... | 69.4        | 87.8              | 80.1        | 70.5            | 92.7              | 78.9              |

<sup>1</sup>Subject to revision. <sup>2</sup>Revised since the publication of the 1933 Year Book.

## 8.—Index Numbers of Retail Prices, Rents and Costs of Services, by Months, 1932, 1933, 1934, and January-March, 1935.

(1926=100.)

| Year and Month.    | Food Index.       | Fuel Index.       | Rent Index. | Clothing Index. | Sundries Index.   | Total Index.      |
|--------------------|-------------------|-------------------|-------------|-----------------|-------------------|-------------------|
| 1932.              |                   |                   |             |                 |                   |                   |
| January.....       | 69.6              | 93.7 <sup>2</sup> | 99.3        | 76.4            | 94.8 <sup>2</sup> | 84.8 <sup>2</sup> |
| February.....      | 66.5              | 93.6 <sup>2</sup> | 99.3        | 76.4            | 94.8 <sup>2</sup> | 83.8 <sup>2</sup> |
| March.....         | 66.1 <sup>2</sup> | 93.4 <sup>2</sup> | 99.3        | 74.5            | 94.6 <sup>2</sup> | 83.3 <sup>2</sup> |
| April.....         | 65.4              | 92.6 <sup>2</sup> | 99.3        | 74.5            | 94.7 <sup>2</sup> | 83.1 <sup>2</sup> |
| May.....           | 62.9              | 90.9 <sup>2</sup> | 93.9        | 74.5            | 94.9 <sup>2</sup> | 81.2 <sup>2</sup> |
| June.....          | 62.1              | 90.7 <sup>2</sup> | 93.9        | 71.9            | 94.7 <sup>2</sup> | 80.4 <sup>2</sup> |
| July.....          | 61.4              | 90.5 <sup>2</sup> | 93.9        | 71.9            | 94.5 <sup>2</sup> | 80.1 <sup>2</sup> |
| August.....        | 63.5              | 91.6 <sup>2</sup> | 93.9        | 71.9            | 94.5 <sup>2</sup> | 80.8 <sup>2</sup> |
| September.....     | 63.0              | 91.5 <sup>2</sup> | 93.9        | 70.7            | 94.4 <sup>2</sup> | 80.4 <sup>2</sup> |
| October.....       | 63.6              | 90.5 <sup>2</sup> | 90.0        | 70.7            | 94.4 <sup>2</sup> | 79.8 <sup>2</sup> |
| November.....      | 63.9              | 90.2 <sup>2</sup> | 90.0        | 70.7            | 94.4 <sup>2</sup> | 79.9 <sup>2</sup> |
| December.....      | 64.0              | 89.1 <sup>2</sup> | 90.0        | 69.2            | 94.2 <sup>2</sup> | 79.5 <sup>2</sup> |
| 1932 Averages..... | 64.3              | 91.4 <sup>2</sup> | 94.7        | 72.8            | 94.6 <sup>2</sup> | 81.4 <sup>2</sup> |
| 1933.              |                   |                   |             |                 |                   |                   |
| January.....       | 62.8              | 89.2              | 90.0        | 69.2            | 93.1              | 78.9              |
| February.....      | 60.6              | 89.1              | 90.0        | 69.2            | 92.9              | 78.1              |
| March.....         | 60.4              | 88.7              | 90.0        | 66.5            | 92.6              | 77.5              |
| April.....         | 61.3              | 88.7              | 90.0        | 66.5            | 92.7              | 77.8              |
| May.....           | 61.9              | 88.4              | 84.0        | 66.5            | 92.7              | 76.7              |
| June.....          | 62.2              | 87.7              | 84.0        | 66.1            | 92.6              | 76.7              |
| July.....          | 63.2              | 86.0              | 84.0        | 66.1            | 92.5              | 76.9              |
| August.....        | 67.8              | 86.4              | 84.0        | 66.1            | 92.6              | 78.3              |
| September.....     | 65.9              | 86.3              | 84.0        | 69.9            | 92.8              | 78.5              |
| October.....       | 65.4              | 87.1              | 80.4        | 69.9            | 92.8              | 77.6              |
| November.....      | 65.8              | 87.2              | 80.4        | 69.9            | 92.9              | 77.8              |
| December.....      | 66.6              | 87.3              | 80.4        | 69.2            | 93.0              | 77.9              |
| 1933 Averages..... | 63.7              | 87.7              | 85.1        | 67.9            | 92.7              | 77.7              |
| 1934. <sup>1</sup> |                   |                   |             |                 |                   |                   |
| January.....       | 67.7              | 87.4              | 80.4        | 69.2            | 92.7              | 78.2              |
| February.....      | 69.4              | 87.2              | 80.4        | 69.2            | 92.7              | 78.7              |
| March.....         | 72.9              | 87.4              | 80.4        | 69.9            | 92.9              | 79.9              |
| April.....         | 71.0              | 87.8              | 80.4        | 69.9            | 92.9              | 79.4              |
| May.....           | 68.6              | 87.8              | 79.7        | 69.9            | 92.7              | 78.5              |
| June.....          | 67.6              | 87.2              | 79.7        | 70.1            | 92.7              | 78.2              |
| July.....          | 68.4              | 87.0              | 79.7        | 70.1            | 92.7              | 78.4              |
| August.....        | 69.3              | 87.6              | 79.7        | 70.1            | 92.6              | 78.7              |
| September.....     | 68.8              | 88.0              | 79.7        | 72.3            | 92.7              | 79.0              |
| October.....       | 69.4              | 88.5              | 80.3        | 72.3            | 92.7              | 79.3              |
| November.....      | 69.9              | 88.7              | 80.3        | 72.3            | 92.6              | 79.4              |
| December.....      | 69.3              | 88.4              | 80.3        | 71.0            | 92.6              | 79.0              |
| 1934 Averages..... | 69.4              | 87.8              | 80.1        | 70.5            | 92.7              | 78.9              |
| 1935. <sup>1</sup> |                   |                   |             |                 |                   |                   |
| January.....       | 68.8              | 89.0              | 80.3        | 71.0            | 92.8              | 78.9              |
| February.....      | 69.2              | 88.9              | 80.3        | 71.0            | 92.8              | 79.1              |
| March.....         | 69.5              | 88.9              | 80.3        | 70.3            | 92.8              | 79.0              |

<sup>1</sup> Subject to revision.    <sup>2</sup> Revised since the publication of the 1933 Year Book.

**The Family Budget.**—A family budget constructed by the Department of Labour appears regularly in the *Labour Gazette*. This budget material has been used by the Bureau to obtain the tables which follow.

Table 9 shows the average prices of items included in the family budget in 1920 and in each of the years from 1925-34. These numbers are weighted by the quantities used by the Department of Labour in computing their monthly family budget. Table 10 gives the group indexes by provinces. An examination of the tables reveals the course of the budget, consisting of food, fuel and lighting, and rent, over the period shown.

### 9.—Prices of a Family Budget of Staple Foods, Fuel and Lighting, and Rent, for Sixty Cities in Canada, 1920 and 1925-34.

| Commodity.                                        | Unit.  | 1920.        | 1925.        | 1926.        | 1927.        | 1928.        | 1929.        | 1930.        | 1931.        | 1932. <sup>1</sup> | 1933.        | 1934. <sup>2</sup> |
|---------------------------------------------------|--------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------|--------------|--------------------|
| <b>Staple Foods—</b>                              |        | \$           | \$           | \$           | \$           | \$           | \$           | \$           | \$           | \$                 | \$           | \$                 |
| Beef, sirloin steak...                            | 1 lb.  | 0.389        | 0.285        | 0.294        | 0.308        | 0.345        | 0.363        | 0.356        | 0.286        | 0.245              | 0.210        | 0.214              |
| Beef, chuck roast...                              | 1 "    | 0.251        | 0.152        | 0.160        | 0.172        | 0.206        | 0.227        | 0.221        | 0.158        | 0.129              | 0.112        | 0.115              |
| Veal, roast...                                    | 1 "    | 0.274        | 0.182        | 0.193        | 0.203        | 0.226        | 0.245        | 0.239        | 0.183        | 0.138              | 0.119        | 0.121              |
| Mutton, roast...                                  | 1 "    | 0.354        | 0.289        | 0.298        | 0.291        | 0.300        | 0.309        | 0.302        | 0.253        | 0.209              | 0.188        | 0.200              |
| Pork, fresh, roast...                             | 1 "    | 0.397        | 0.275        | 0.302        | 0.282        | 0.273        | 0.300        | 0.298        | 0.223        | 0.152              | 0.151        | 0.201              |
| Pork, salt mess...                                | 1 "    | 0.362        | 0.254        | 0.278        | 0.265        | 0.261        | 0.273        | 0.271        | 0.226        | 0.155              | 0.148        | 0.184              |
| Bacon, breakfast...                               | 1 "    | 0.559        | 0.385        | 0.431        | 0.393        | 0.379        | 0.393        | 0.399        | 0.301        | 0.184              | 0.198        | 0.304              |
| Lard, pure leaf...                                | 1 "    | 0.380        | 0.242        | 0.246        | 0.221        | 0.221        | 0.219        | 0.212        | 0.157        | 0.121              | 0.126        | 0.135              |
| Eggs, fresh...                                    | 1 doz. | 0.709        | 0.486        | 0.466        | 0.487        | 0.478        | 0.475        | 0.457        | 0.337        | 0.294              | 0.281        | 0.319              |
| Eggs, storage...                                  | 1 "    | 0.608        | 0.417        | 0.398        | 0.424        | 0.412        | 0.403        | 0.394        | 0.271        | 0.228              | 0.217        | 0.259              |
| Milk...                                           | 1 qt.  | 0.151        | 0.119        | 0.118        | 0.119        | 0.121        | 0.123        | 0.123        | 0.111        | 0.098              | 0.093        | 0.098              |
| Butter, dairy...                                  | 1 lb.  | 0.631        | 0.389        | 0.406        | 0.415        | 0.417        | 0.428        | 0.368        | 0.272        | 0.216              | 0.220        | 0.236              |
| Butter, creamery...                               | 1 "    | 0.696        | 0.439        | 0.448        | 0.463        | 0.461        | 0.470        | 0.405        | 0.300        | 0.253              | 0.255        | 0.270              |
| Cheese, old...                                    | 1 "    | 0.406        | 0.312        | 0.318        | 0.310        | 0.329        | 0.334        | 0.318        | 0.251        | 0.206              | 0.196        | 0.199              |
| Cheese, new...                                    | 1 "    | 0.383        | 0.312        | 0.318        | 0.310        | 0.329        | 0.334        | 0.318        | 0.251        | 0.206              | 0.196        | 0.199              |
| Bread, plain white...                             | 1 "    | 0.093        | 0.078        | 0.076        | 0.077        | 0.077        | 0.078        | 0.075        | 0.062        | 0.059              | 0.057        | 0.059              |
| Flour, family...                                  | 1 "    | 0.079        | 0.057        | 0.053        | 0.053        | 0.052        | 0.051        | 0.047        | 0.033        | 0.030              | 0.029        | 0.032              |
| Rolls oats...                                     | 1 "    | 0.084        | 0.061        | 0.058        | 0.061        | 0.063        | 0.064        | 0.061        | 0.050        | 0.047              | 0.048        | 0.051              |
| Rice, good medium...                              | 1 "    | 0.164        | 0.109        | 0.110        | 0.108        | 0.105        | 0.104        | 0.101        | 0.092        | 0.085              | 0.080        | 0.081              |
| Beans, hand-picked...                             | 1 "    | 0.117        | 0.083        | 0.079        | 0.081        | 0.089        | 0.115        | 0.094        | 0.061        | 0.043              | 0.041        | 0.046              |
| Apples, evaporated...                             | 1 "    | 0.286        | 0.204        | 0.200        | 0.194        | 0.210        | 0.213        | 0.206        | 0.178        | 0.160              | 0.150        | 0.152              |
| Prunes, medium...                                 | 1 "    | 0.270        | 0.156        | 0.158        | 0.148        | 0.135        | 0.141        | 0.155        | 0.121        | 0.111              | 0.115        | 0.127              |
| Sugar, granulated...                              | 1 "    | 0.197        | 0.085        | 0.079        | 0.083        | 0.079        | 0.073        | 0.068        | 0.062        | 0.059              | 0.073        | 0.072              |
| Sugar, yellow...                                  | 1 "    | 0.185        | 0.081        | 0.075        | 0.079        | 0.075        | 0.069        | 0.065        | 0.060        | 0.057              | 0.071        | 0.070              |
| Tea, black...                                     | 1 "    | 0.644        | 0.714        | 0.719        | 0.716        | 0.713        | 0.704        | 0.628        | 0.552        | 0.472              | 0.424        | 0.504              |
| Tea, green...                                     | 1 "    | 0.672        | 0.714        | 0.719        | 0.716        | 0.713        | 0.704        | 0.628        | 0.552        | 0.472              | 0.424        | 0.504              |
| Coffee...                                         | 1 "    | 0.608        | 0.604        | 0.612        | 0.612        | 0.607        | 0.604        | 0.572        | 0.492        | 0.428              | 0.400        | 0.392              |
| Potatoes...                                       | 1 pk.  | 0.658        | 0.276        | 0.436        | 0.317        | 0.258        | 0.291        | 0.355        | 0.172        | 0.130              | 0.189        | 0.183              |
| Vinegar, white wine...                            | 1 pt.  | 0.080        | 0.080        | 0.080        | 0.080        | 0.080        | 0.080        | 0.080        | 0.080        | 0.072              | 0.072        | 0.072              |
| <b>All Foods, Weekly Budget<sup>3</sup></b>       |        | <b>15.99</b> | <b>10.81</b> | <b>11.21</b> | <b>11.00</b> | <b>11.04</b> | <b>11.34</b> | <b>10.96</b> | <b>8.49</b>  | <b>7.10</b>        | <b>7.03</b>  | <b>7.56</b>        |
| Starch, laundry...                                | 1 lb.  | 0.144        | 0.124        | 0.124        | 0.123        | 0.123        | 0.123        | 0.123        | 0.120        | 0.117              | 0.114        | 0.114              |
| <b>Fuel and Lighting—</b>                         |        |              |              |              |              |              |              |              |              |                    |              |                    |
| Coal, anthracite...                               | 1 ton  | 17.04        | 16.833       | 17.392       | 16.465       | 16.272       | 16.192       | 16.112       | 16.064       | 15.616             | 15.056       | 15.056             |
| Coal, bituminous...                               | 1 "    | 12.38        | 10.249       | 10.311       | 10.213       | 10.113       | 10.080       | 10.064       | 9.840        | 9.584              | 9.296        | 9.280              |
| Wood, hard, best...                               | 1 cord | 13.09        | 12.280       | 12.195       | 12.128       | 12.077       | 12.208       | 12.176       | 11.696       | 10.912             | 9.808        | 9.632              |
| Wood, soft...                                     | 1 "    | 10.14        | 8.979        | 8.947        | 8.960        | 8.937        | 8.800        | 8.672        | 8.560        | 7.984              | 7.408        | 7.328              |
| Coal oil...                                       | 1 gal. | 0.365        | 0.304        | 0.308        | 0.314        | 0.311        | 0.311        | 0.309        | 0.291        | 0.274              | 0.271        | 0.275              |
| <b>Rent—</b>                                      |        |              |              |              |              |              |              |              |              |                    |              |                    |
| Rent, 1 month...                                  |        | 24.80        | 27.54        | 27.43        | 27.43        | 27.67        | 27.92        | 28.16        | 27.80        | 25.76              | 23.04        | 22.16              |
| <b>Grand Totals, Weekly Budget<sup>1, 2</sup></b> |        | <b>25.91</b> | <b>21.06</b> | <b>21.47</b> | <b>21.20</b> | <b>21.27</b> | <b>21.61</b> | <b>21.29</b> | <b>18.66</b> | <b>16.60</b>       | <b>15.70</b> | <b>16.02</b>       |

<sup>1</sup>Revised since the publication of the 1933 Year Book. <sup>2</sup>Subject to revision. <sup>3</sup>Totals for "all foods" and "grand totals" are based upon the estimated weekly family consumption of the commodities specified in the table.



# 10.—Index Numbers of a Family Budget of Staple Foods, Fuel and Lighting, and Rent in Canada, by Provinces, 1925-34.

(Dominion Average for 1913=100.)

## STAPLE FOODS.

| Province.                 | 1925. | 1926. | 1927. | 1928. | 1929. | 1930. | 1931. | 1932. | 1933. | 1934. <sup>1</sup> |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| Prince Edward Island..... | 134.8 | 142.3 | 136.8 | 134.3 | 139.1 | 140.4 | 115.4 | 95.4  | 94.9  | 100.0              |
| Nova Scotia.....          | 149.5 | 154.8 | 148.6 | 149.3 | 153.5 | 151.6 | 121.7 | 102.9 | 99.5  | 106.6              |
| New Brunswick.....        | 147.7 | 155.9 | 150.1 | 149.0 | 151.4 | 149.1 | 119.9 | 102.1 | 99.9  | 105.6              |
| Quebec.....               | 139.3 | 144.9 | 139.4 | 139.2 | 142.8 | 138.8 | 107.4 | 89.4  | 87.9  | 95.4               |
| Ontario.....              | 145.0 | 154.2 | 150.8 | 151.0 | 153.8 | 148.7 | 114.5 | 95.7  | 95.5  | 104.1              |
| Manitoba.....             | 141.7 | 142.2 | 141.6 | 145.6 | 151.2 | 144.5 | 108.8 | 93.0  | 92.1  | 97.0               |
| Saskatchewan.....         | 148.2 | 148.6 | 150.7 | 152.3 | 158.3 | 149.1 | 110.4 | 93.4  | 92.4  | 99.5               |
| Alberta.....              | 149.9 | 147.5 | 148.4 | 151.1 | 158.9 | 150.9 | 111.8 | 93.0  | 92.1  | 99.4               |
| British Columbia.....     | 164.6 | 163.1 | 163.2 | 164.6 | 170.4 | 164.5 | 129.6 | 106.9 | 106.0 | 112.7              |

## FUEL AND LIGHTING.

|                           |       |       |       |       |       |       |       |       |       |       |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Prince Edward Island..... | 174.3 | 167.0 | 162.8 | 152.4 | 154.5 | 153.9 | 152.9 | 150.8 | 138.7 | 142.9 |
| Nova Scotia.....          | 157.1 | 155.5 | 150.8 | 152.4 | 151.8 | 150.3 | 149.2 | 139.3 | 131.4 | 133.0 |
| New Brunswick.....        | 164.9 | 168.1 | 164.4 | 161.8 | 160.2 | 160.7 | 156.0 | 147.6 | 140.3 | 139.3 |
| Quebec.....               | 172.8 | 177.5 | 175.4 | 174.9 | 174.9 | 173.3 | 167.0 | 157.1 | 149.2 | 149.7 |
| Ontario.....              | 179.6 | 182.2 | 179.1 | 177.0 | 177.0 | 175.9 | 173.3 | 164.9 | 156.5 | 155.5 |
| Manitoba.....             | 188.5 | 184.8 | 183.2 | 184.8 | 189.5 | 190.1 | 181.7 | 159.2 | 153.9 | 157.6 |
| Saskatchewan.....         | 186.4 | 181.2 | 182.7 | 183.3 | 181.2 | 174.9 | 160.7 | 112.6 | 102.6 | 102.1 |
| Alberta.....              | 128.3 | 126.2 | 122.0 | 108.4 | 100.5 | 100.5 | 97.4  | 94.2  | 90.6  | 87.4  |
| British Columbia.....     | 147.1 | 147.6 | 147.1 | 147.1 | 147.6 | 147.6 | 146.1 | 137.2 | 128.3 | 124.6 |

## RENT.

|                           |       |       |       |       |       |       |       |       |       |       |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Prince Edward Island..... | 122.5 | 118.5 | 118.5 | 118.5 | 122.3 | 123.8 | 123.8 | 123.8 | 123.2 | 121.1 |
| Nova Scotia.....          | 117.5 | 117.9 | 117.9 | 117.9 | 117.9 | 121.1 | 126.9 | 126.9 | 117.5 | 111.8 |
| New Brunswick.....        | 142.1 | 142.1 | 142.1 | 142.1 | 142.1 | 139.4 | 135.6 | 132.4 | 124.2 | 120.2 |
| Quebec.....               | 120.8 | 120.8 | 121.7 | 122.7 | 123.2 | 125.9 | 124.4 | 118.1 | 110.1 | 105.3 |
| Ontario.....              | 152.8 | 151.8 | 151.2 | 153.1 | 154.3 | 155.8 | 153.3 | 139.6 | 123.2 | 120.4 |
| Manitoba.....             | 184.2 | 184.2 | 184.2 | 184.2 | 184.2 | 184.2 | 176.6 | 153.5 | 131.8 | 125.1 |
| Saskatchewan.....         | 184.2 | 184.2 | 184.2 | 184.2 | 184.2 | 185.7 | 176.8 | 156.0 | 133.1 | 129.3 |
| Alberta.....              | 148.0 | 151.8 | 152.4 | 151.8 | 157.9 | 161.7 | 160.4 | 143.6 | 125.5 | 116.6 |
| British Columbia.....     | 135.4 | 135.8 | 136.6 | 138.1 | 139.8 | 140.8 | 140.2 | 131.4 | 118.3 | 110.3 |

## GRAND TOTALS.

|                           |       |       |       |       |       |       |       |       |       |       |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Prince Edward Island..... | 135.6 | 137.3 | 134.0 | 131.2 | 135.3 | 136.3 | 123.1 | 112.4 | 110.2 | 112.8 |
| Nova Scotia.....          | 139.4 | 142.1 | 138.4 | 138.9 | 141.0 | 140.8 | 127.0 | 115.8 | 109.7 | 117.7 |
| New Brunswick.....        | 147.9 | 152.7 | 149.1 | 148.2 | 149.2 | 147.1 | 129.9 | 118.4 | 113.4 | 114.9 |
| Quebec.....               | 137.4 | 141.0 | 138.1 | 138.3 | 140.3 | 138.8 | 121.1 | 108.2 | 103.6 | 106.0 |
| Ontario.....              | 152.2 | 156.8 | 154.6 | 155.0 | 156.9 | 154.5 | 135.4 | 119.8 | 113.0 | 116.4 |
| Manitoba.....             | 162.2 | 161.9 | 161.5 | 163.8 | 167.4 | 163.9 | 141.5 | 122.3 | 113.8 | 114.6 |
| Saskatchewan.....         | 165.3 | 164.8 | 166.2 | 167.2 | 170.0 | 164.7 | 139.5 | 117.0 | 107.4 | 109.7 |
| Alberta.....              | 146.0 | 145.8 | 145.9 | 145.3 | 150.4 | 147.4 | 126.1 | 110.1 | 103.0 | 103.4 |
| British Columbia.....     | 152.0 | 151.5 | 151.5 | 153.0 | 156.7 | 153.9 | 135.2 | 119.1 | 113.0 | 113.3 |

<sup>1</sup>Subject to revision.

## Section 3.—Index Numbers of Security Prices.

Many important advances have recently been made in the direction of improving the technique of making index numbers of security prices. The chief of these are: first, the computation of index numbers to serve different purposes; secondly, weighting of the index numbers so that they will accurately represent the market—an accurate index of market trends cannot be made on the basis of a simple average of market quotations or on any system which does not consider weighting; thirdly, using weighted average prices of individual securities rather than the average of high and low quotations or closing quotations. This last point is of considerable importance, because the average price at which a stock sells on a certain day frequently differs widely from the average of its high and low quotations or its closing price.

# 11.—Investors Index Numbers of (1926=

NOTE.—For earlier figures, see p. 815 of the 1933 Year Book, p. 695 of the 1932 Year Book, p. 823 of the Year Book.

| Year and Month.                 | Types of Stocks. |              |                              |                                                                        |                       |               |       |                                        |                                         |                 |                          |
|---------------------------------|------------------|--------------|------------------------------|------------------------------------------------------------------------|-----------------------|---------------|-------|----------------------------------------|-----------------------------------------|-----------------|--------------------------|
|                                 | Industrials.     |              |                              |                                                                        |                       |               |       |                                        |                                         |                 |                          |
|                                 | Grand Total.     | Banks Total. | Indus-<br>tri-als,<br>Total. | Iron<br>and<br>Steel,<br>and<br>Iron<br>and<br>Steel<br>Pro-<br>ducts. | Pulp<br>and<br>Paper. | Mill-<br>ing. | Oils. | Tex-<br>tiles<br>and<br>Cloth-<br>ing. | Food<br>and<br>Allied<br>Pro-<br>ducts. | Bever-<br>ages. | Mis-<br>cella-<br>neous. |
| Numbers of stocks,<br>1933..... | 126              | 8            | 93                           | 19                                                                     | 8                     | 5             | 4     | 9                                      | 19                                      | 8               | 21                       |
| 1933.                           |                  |              |                              |                                                                        |                       |               |       |                                        |                                         |                 |                          |
| January.....                    | 52.9             | 67.8         | 60.7                         | 50.8                                                                   | 4.0                   | 42.0          | 95.7  | 38.1                                   | 84.4                                    | 35.1            | 72.6                     |
| February.....                   | 49.2             | 66.0         | 58.0                         | 46.1                                                                   | 5.0                   | 41.0          | 89.5  | 35.4                                   | 82.4                                    | 34.2            | 71.7                     |
| March.....                      | 48.9             | 62.8         | 59.1                         | 46.6                                                                   | 3.2                   | 39.1          | 89.8  | 34.0                                   | 80.8                                    | 37.9            | 75.3                     |
| April.....                      | 53.8             | 60.3         | 69.7                         | 50.6                                                                   | 3.8                   | 45.9          | 101.7 | 32.9                                   | 87.8                                    | 39.9            | 98.2                     |
| May.....                        | 66.1             | 65.2         | 88.6                         | 68.2                                                                   | 5.5                   | 63.1          | 127.0 | 48.2                                   | 108.2                                   | 66.8            | 119.8                    |
| June.....                       | 77.4             | 73.4         | 107.1                        | 86.5                                                                   | 9.3                   | 72.9          | 146.9 | 58.4                                   | 121.8                                   | 112.4           | 140.9                    |
| July.....                       | 86.5             | 80.4         | 122.3                        | 102.3                                                                  | 12.3                  | 82.1          | 162.5 | 63.4                                   | 143.3                                   | 173.7           | 151.1                    |
| August.....                     | 81.8             | 76.0         | 117.2                        | 95.2                                                                   | 11.2                  | 79.3          | 153.2 | 62.5                                   | 130.8                                   | 160.9           | 150.5                    |
| September.....                  | 81.6             | 74.8         | 119.1                        | 88.6                                                                   | 10.8                  | 75.8          | 156.1 | 65.2                                   | 124.9                                   | 168.6           | 155.1                    |
| October.....                    | 73.3             | 71.7         | 103.6                        | 75.7                                                                   | 8.9                   | 73.6          | 133.6 | 61.6                                   | 115.1                                   | 134.8           | 139.0                    |
| November.....                   | 76.8             | 68.4         | 113.4                        | 78.6                                                                   | 8.5                   | 72.9          | 155.7 | 60.8                                   | 118.1                                   | 135.1           | 151.3                    |
| December.....                   | 75.3             | 64.7         | 111.4                        | 79.3                                                                   | 7.8                   | 68.4          | 143.9 | 58.6                                   | 117.1                                   | 148.5           | 152.9                    |
| Numbers of stocks,<br>1934..... | 121              | 8            | 87                           | 17                                                                     | 6                     | 4             | 4     | 10                                     | 18                                      | 8               | 20                       |
| 1934. <sup>1</sup>              |                  |              |                              |                                                                        |                       |               |       |                                        |                                         |                 |                          |
| January.....                    | 81.6             | 71.7         | 118.6                        | 98.1                                                                   | 11.4                  | 74.9          | 147.0 | 66.6                                   | 122.6                                   | 163.6           | 160.9                    |
| February.....                   | 86.5             | 76.7         | 123.8                        | 114.6                                                                  | 13.6                  | 77.1          | 153.7 | 73.3                                   | 128.2                                   | 148.5           | 169.0                    |
| March.....                      | 88.0             | 76.9         | 128.5                        | 113.6                                                                  | 13.2                  | 77.1          | 152.2 | 76.3                                   | 129.4                                   | 141.8           | 189.2                    |
| April.....                      | 90.7             | 76.1         | 133.0                        | 114.9                                                                  | 13.2                  | 75.2          | 159.4 | 76.8                                   | 134.3                                   | 138.0           | 198.4                    |
| May.....                        | 88.6             | 75.2         | 128.0                        | 106.9                                                                  | 13.8                  | 74.3          | 159.0 | 79.1                                   | 129.9                                   | 113.8           | 190.5                    |
| June.....                       | 87.2             | 72.7         | 126.1                        | 104.7                                                                  | 12.5                  | 74.1          | 161.9 | 77.7                                   | 128.1                                   | 113.5           | 182.5                    |
| July.....                       | 81.3             | 73.6         | 116.6                        | 97.8                                                                   | 10.5                  | 72.4          | 153.8 | 72.7                                   | 123.3                                   | 86.7            | 168.9                    |
| August.....                     | 83.8             | 73.1         | 120.1                        | 100.7                                                                  | 9.9                   | 73.2          | 158.0 | 73.1                                   | 125.5                                   | 91.3            | 174.7                    |
| September.....                  | 83.8             | 74.9         | 118.8                        | 98.8                                                                   | 9.6                   | 72.6          | 160.2 | 71.9                                   | 123.4                                   | 93.8            | 168.4                    |
| October.....                    | 85.2             | 76.1         | 122.0                        | 107.7                                                                  | 9.8                   | 68.4          | 169.0 | 74.4                                   | 126.6                                   | 89.2            | 168.8                    |
| November.....                   | 86.0             | 78.3         | 125.3                        | 111.4                                                                  | 11.0                  | 66.0          | 180.8 | 74.3                                   | 128.1                                   | 98.4            | 164.6                    |
| December.....                   | 86.2             | 79.0         | 125.6                        | 119.8                                                                  | 11.6                  | 71.0          | 177.8 | 74.3                                   | 130.3                                   | 93.6            | 166.2                    |

<sup>1</sup> Subject to revision.

In the revised index numbers of security prices which have recently been issued by the Bureau full use of the improvements mentioned has been made, and these index numbers are now in line with the most advanced technique pertaining to the making of such indexes. In the revision, the base of the calculations was also changed. The basic period is now the year 1926, that is, prices prevailing in that year are taken as 100 and subsequent price movements are expressed as a percentage. The year 1926 was chosen as the base in conformity with the tendency which now prevails to substitute a post-war for a pre-war year. This year was also chosen in order to enable comparisons to be made with important indexes in the United States.

**Investors Index Numbers of Common Stocks.**—Monthly figures for the investors index number of common stocks, computed by the Dominion Bureau of Statistics on the basis 1926=100, have been carried back to 1913. The index falls into two parts, *viz.*, the period subsequent to 1926 and the earlier period. For the period 1913 to 1926 those stocks were used which were included in the index number previously issued on the 1913 base, *viz.*, 31 industrials, 10 public utilities

**Common Stocks, by Months, 1933 and 1934.**

100.)

1931 Year Book, p. 782 of the 1930 Year Book, p 784 of the 1929 Year Book, and pp. 796-800 of the 1927-28

| Year and Month.              | Types of Stocks.        |                 |                          |                     |                          |             |          |
|------------------------------|-------------------------|-----------------|--------------------------|---------------------|--------------------------|-------------|----------|
|                              | Public Utilities.       |                 |                          |                     | Companies Abroad.        |             |          |
|                              | Public Utilities Total. | Transportation. | Telephone and Telegraph. | Power and Traction. | Companies Abroad, Total. | Industrial. | Utility. |
| Numbers of stocks, 1933..... | 19                      | 2               | 2                        | 15                  | 6                        | 1           | 5        |
| 1933.                        |                         |                 |                          |                     |                          |             |          |
| January.....                 | 45.9                    | 36.6            | 72.2                     | 52.4                | 50.2                     | 71.2        | 32.1     |
| February.....                | 40.4                    | 28.0            | 65.9                     | 50.0                | 48.6                     | 70.1        | 29.8     |
| March.....                   | 39.9                    | 26.5            | 66.4                     | 50.7                | 47.6                     | 68.9        | 28.9     |
| April.....                   | 40.4                    | 29.3            | 63.4                     | 49.2                | 55.5                     | 81.3        | 32.8     |
| May.....                     | 49.5                    | 38.6            | 72.4                     | 58.4                | 67.3                     | 93.7        | 44.2     |
| June.....                    | 56.4                    | 45.9            | 77.5                     | 65.5                | 77.9                     | 109.3       | 50.5     |
| July.....                    | 61.5                    | 50.0            | 85.5                     | 71.2                | 85.8                     | 119.2       | 56.6     |
| August.....                  | 56.8                    | 43.2            | 85.3                     | 67.7                | 81.0                     | 115.5       | 50.9     |
| September.....               | 53.5                    | 39.4            | 84.9                     | 64.3                | 84.0                     | 122.9       | 49.9     |
| October.....                 | 48.5                    | 32.5            | 83.0                     | 60.4                | 78.6                     | 115.5       | 46.3     |
| November.....                | 47.8                    | 31.5            | 84.2                     | 59.7                | 83.0                     | 129.1       | 42.3     |
| December.....                | 47.8                    | 32.5            | 86.4                     | 58.1                | 80.2                     | 124.8       | 41.0     |
| Numbers of stocks, 1934..... | 20                      | 2               | 2                        | 16                  | 6                        | 1           | 5        |
| 1934. <sup>1</sup>           |                         |                 |                          |                     |                          |             |          |
| January.....                 | 53.5                    | 38.6            | 86.2                     | 64.8                | 86.4                     | 133.5       | 45.0     |
| February.....                | 58.0                    | 42.1            | 88.8                     | 70.9                | 91.9                     | 141.6       | 48.3     |
| March.....                   | 58.8                    | 43.3            | 90.0                     | 71.1                | 89.2                     | 140.3       | 44.3     |
| April.....                   | 58.1                    | 42.0            | 90.9                     | 70.7                | 98.3                     | 161.4       | 42.6     |
| May.....                     | 56.7                    | 40.2            | 90.0                     | 69.7                | 99.3                     | 166.4       | 40.0     |
| June.....                    | 54.5                    | 37.9            | 90.2                     | 67.0                | 101.1                    | 175.1       | 35.5     |
| July.....                    | 50.6                    | 32.9            | 89.6                     | 63.4                | 93.7                     | 161.4       | 33.6     |
| August.....                  | 51.2                    | 33.4            | 89.4                     | 64.4                | 100.5                    | 171.3       | 37.6     |
| September.....               | 50.1                    | 33.1            | 90.6                     | 61.7                | 104.8                    | 176.3       | 41.4     |
| October.....                 | 49.0                    | 31.1            | 92.7                     | 60.8                | 108.6                    | 183.1       | 42.4     |
| November.....                | 46.5                    | 28.6            | 93.7                     | 57.5                | 111.2                    | 191.8       | 39.6     |
| December.....                | 47.5                    | 29.1            | 97.6                     | 58.5                | 109.0                    | 187.4       | 39.4     |

and 9 banks, or 50 stocks in all. In the subsequent period the list of stocks included in the monthly index numbers was enlarged and now contains 87 industrial, 20 domestic utilities, 6 companies located abroad and 8 bank stocks. Despite the difference in the number of stocks included, the trend of stock prices is adequately shown throughout the whole period. The larger number of stocks included in the revised index number, though adding little to the accuracy of the general index, gives more complete information regarding various groups of stocks traded on Canadian exchanges.

Banks are included in the monthly index numbers but not in the weekly, the trading in such securities not being, as a rule, sufficiently important to warrant their inclusion in a weekly index. In any case, their inclusion does not affect the general index by more than a point or two.

The general movement of common stock prices was upward in the first four months of 1934, with the average increase amounting to about 20 p.c. Roughly two-thirds of this gain was lost in the succeeding three months, after which an irregular recovery placed prices at the end of the year approximately 15 p.c. above levels at the beginning. Considerable variation occurred in the movements of

different groups of stocks. Industrials generally followed the course outlined above for all common stocks. Within this group, however, price behaviour varied widely. Beverages dropped sharply from 163.6 in January to 86.7 in July, and then recovered to 93.6. Oils moved almost steadily upward throughout the year from 147.0 to 177.8. Pulp and paper fluctuated narrowly between 9.6 and 13.8. The size of these numbers and the difference in the movements indicated, gives some idea of the variety existing in the industrial price field. The index for utilities declined gradually after the first three months of the year from 58.8 to 47.5. This index averaged 70 points less than the one for industrials during 1934. In other words, industrials were 23 p.c. above 1926 price levels, while utilities were 47 p.c. lower than at that time.

**Weighted Index Numbers of Mining Stocks.**—A weighted index number of mining stocks is computed by the Dominion Bureau of Statistics on the basis 1926=100. Mines of a semi-industrial nature, such as International Nickel and Consolidated Mining and Smelting Company, do not appear here but are included in the Bureau's investors index of common industrial and public utility stocks.

Mining stock prices advanced rapidly during the first quarter of 1934, and were fairly steady during the second and third quarters. They declined rather sharply in October and November, but advanced moderately during December. An index of gold-stock prices showed a net increase for the year of roughly 24 p.c. Gold stocks continued to advance for six months after prices for gold itself had ceased to rise, and similarly the total appreciation in gold-stock prices since the mint par of \$20.67 per ounce was abandoned, has been very much greater than the currency premium established on gold. An index of base-metal stock prices was 129.6 in December, as compared with 128.3 in January, and 164.2 in June, when prices were at the highest point of the year.

**12.—Weighted Index Numbers of Prices of Mining Stocks, by Months, January, 1932, to March, 1935.**

(1926=100.)

| Year and Month.                 | Types of Stocks. |              |                           |        |
|---------------------------------|------------------|--------------|---------------------------|--------|
|                                 | Gold.            | Gold-Copper. | Silver and Miscellaneous. | Total. |
| Numbers of Stocks, 1932.....    | 11               | 4            | 5                         | 20     |
| 1932.                           |                  |              |                           |        |
| January.....                    | 60.1             | 62.5         | 26.5                      | 59.7   |
| February.....                   | 57.5             | 61.2         | 22.2                      | 57.3   |
| March.....                      | 57.6             | 63.4         | 21.4                      | 57.8   |
| April.....                      | 52.6             | 56.5         | 18.3                      | 52.4   |
| May.....                        | 50.2             | 47.9         | 15.5                      | 48.4   |
| June.....                       | 49.9             | 47.8         | 16.8                      | 48.3   |
| July.....                       | 57.2             | 55.6         | 21.0                      | 55.6   |
| August.....                     | 58.1             | 69.7         | 26.3                      | 59.7   |
| September.....                  | 56.4             | 81.0         | 28.4                      | 60.9   |
| October.....                    | 55.0             | 71.0         | 24.4                      | 57.5   |
| November.....                   | 58.1             | 76.5         | 23.6                      | 60.9   |
| December.....                   | 62.7             | 70.9         | 21.9                      | 63.1   |
| Numbers of Stocks, 1933-35..... | 19               | Base Metals  |                           | 23     |
| 1933.                           |                  |              |                           |        |
| January <sup>1</sup> .....      | 66.8             | 70.4         |                           | 67.1   |
| February <sup>1</sup> .....     | 74.7             | 79.9         |                           | 75.3   |
| March <sup>1</sup> .....        | 66.6             | 76.9         |                           | 68.4   |
| April <sup>1</sup> .....        | 72.9             | 83.7         |                           | 74.5   |
| May <sup>1</sup> .....          | 84.5             | 109.7        |                           | 89.6   |
| June.....                       | 97.5             | 128.0        |                           | 104.1  |
| July.....                       | 99.7             | 133.5        |                           | 106.9  |
| August.....                     | 100.5            | 136.5        |                           | 107.4  |
| September.....                  | 107.3            | 140.6        |                           | 113.4  |
| October.....                    | 108.6            | 131.8        |                           | 112.2  |
| November.....                   | 105.2            | 129.7        |                           | 109.4  |
| December.....                   | 100.4            | 127.1        |                           | 105.1  |

<sup>1</sup> Revised since the publication of the 1933 Year Book.



**12.—Weighted Index Numbers of Prices of Mining Stocks, by Months, January, 1932, to March, 1935—concluded.**

| Year and Month.    | Gold. | Base Metal. | Total. |
|--------------------|-------|-------------|--------|
| 1934. <sup>1</sup> |       |             |        |
| January .....      | 104.7 | 128.3       | 108.9  |
| February .....     | 110.1 | 134.2       | 114.4  |
| March .....        | 124.3 | 147.1       | 128.1  |
| April .....        | 132.0 | 162.3       | 137.2  |
| May .....          | 124.2 | 156.5       | 129.8  |
| June .....         | 133.4 | 164.2       | 138.5  |
| July .....         | 133.3 | 158.3       | 137.2  |
| August .....       | 137.4 | 161.7       | 141.1  |
| September .....    | 136.7 | 154.9       | 139.2  |
| October .....      | 132.9 | 141.4       | 133.5  |
| November .....     | 125.7 | 129.0       | 125.5  |
| December .....     | 124.7 | 129.6       | 124.9  |
| 1935. <sup>1</sup> |       |             |        |
| January .....      | 123.2 | 132.4       | 124.3  |
| February .....     | 123.4 | 131.2       | 124.2  |
| March .....        | 127.5 | 135.3       | 128.2  |

<sup>1</sup>Subject to revision.

#### Section 4.—Prices of Services.

A study of the prices of services sheds considerable light on the cost of living as such services are a considerable item in the average family budget. Information with regard to the trend of street-car fares, of rates for manufactured and natural fuel-gas, of domestic electric light rates and of telephone charges was published on pp. 801-804 of the 1927-28 Year Book. Later information shows that the prices of manufactured fuel-gas have shown a downward tendency, the Dominion index number for 1933 being 94.4, as compared with 100.0 in 1926. The index number of the price of natural fuel-gas also declined from 100.0 in 1926 to 92.5 in 1930, rose again to 94.3 in 1932, then declined to 93.9 in 1933.

On the other hand, telephone rates have shown a distinct increase, the Dominion index number of domestic telephone rates having risen from 100.0 in 1926 to 107.4 in 1933. Again, the business telephone rate has risen from 100.0 in 1926 to 118.5 in 1933.

Additional information and details by provinces regarding the prices of services will be found on pp. 178-188 of the Annual Report on Prices and Price Indexes, 1913-33, issued by the Dominion Bureau of Statistics.

**Hospital Charges.**—In view of discussions of the increased cost entailed by illness and hospital treatment, special investigations on hospital charges are now made annually and the results are given as Dominion averages in the following table. In general this shows that hospital charges in 1930 were 87 p.c. above the 1913 level. From 1930 to 1933 rates gradually declined to less than 83 p.c. above those in 1913. Operating room charges have not increased at the same rate as room charges, being only 56 p.c. above those in 1913, while the latter averaged 90 p.c. higher. The cost of maintaining patients in hospitals declined about 9 p.c. between 1931 and 1933.

The detailed results of this investigation, including the statistics by provinces, are to be found on pp. 179-182 of the Annual Report on Prices and Price Indexes, 1913-33, issued by the Dominion Bureau of Statistics.

### 13.—Average Daily Hospital Charges in Canada and Index Numbers Thereof, 1913 and 1919-33.

(1913=100 for Index Numbers.)

| Item.                              | 1913. | 1919. | 1920. | 1921. | 1922. | 1923. | 1924. | 1925. |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Public wards.....\$                | 0.99  | 1.47  | 1.54  | 1.67  | 1.71  | 1.73  | 1.77  | 1.78  |
| Index numbers.....                 | 100.0 | 149.7 | 156.0 | 170.5 | 176.6 | 180.9 | 182.8 | 184.4 |
| Semi-private rooms.....\$          | 1.57  | 2.27  | 2.44  | 2.63  | 2.69  | 2.73  | 2.74  | 2.84  |
| Index numbers.....                 | 100.0 | 145.8 | 156.3 | 168.6 | 173.1 | 175.6 | 176.1 | 182.2 |
| Private rooms.....\$               | 2.68  | 3.68  | 4.05  | 4.45  | 4.49  | 4.52  | 4.58  | 4.92  |
| Index numbers.....                 | 100.0 | 138.2 | 151.4 | 167.4 | 169.1 | 170.3 | 172.3 | 185.9 |
| Operating room.....\$              | 5.16  | 6.71  | 7.00  | 7.15  | 7.24  | 7.64  | 7.87  | 7.97  |
| Index numbers.....                 | 100.0 | 130.8 | 137.0 | 140.1 | 141.8 | 148.9 | 153.0 | 155.1 |
| Costs of maintenance per head...\$ | 1.68  | 2.72  | 3.08  | 3.22  | 3.12  | 3.17  | 3.25  | 3.26  |
| Index numbers.....                 | 100.0 | 163.7 | 187.2 | 195.6 | 189.7 | 192.5 | 197.1 | 198.3 |
| Item.                              | 1926. | 1927. | 1928. | 1929. | 1930. | 1931. | 1932. | 1933. |
| Public wards.....\$                | 1.83  | 1.86  | 1.96  | 2.03  | 2.04  | 2.03  | 2.03  | 1.99  |
| Index numbers.....                 | 184.4 | 186.1 | 197.9 | 203.9 | 204.4 | 204.1 | 204.1 | 200.6 |
| Semi-private rooms.....\$          | 2.82  | 2.83  | 2.85  | 2.87  | 2.89  | 2.89  | 2.85  | 2.82  |
| Index numbers.....                 | 185.2 | 186.3 | 187.8 | 189.1 | 190.4 | 190.2 | 188.0 | 185.8 |
| Private rooms.....\$               | 5.07  | 5.14  | 5.25  | 5.23  | 5.24  | 5.23  | 5.11  | 5.06  |
| Index numbers.....                 | 188.5 | 191.1 | 195.3 | 194.5 | 194.9 | 194.5 | 190.2 | 188.1 |
| Operating room.....\$              | 8.17  | 8.31  | 8.36  | 8.37  | 8.36  | 8.33  | 8.23  | 8.14  |
| Index numbers.....                 | 156.7 | 159.1 | 160.1 | 160.3 | 160.1 | 159.7 | 157.6 | 156.1 |
| Costs of maintenance per head...\$ | 3.48  | 3.45  | 3.49  | 3.62  | 3.63  | 3.58  | 3.44  | 3.25  |
| Index numbers.....                 | 201.9 | 199.7 | 202.3 | 210.4 | 211.2 | 207.8 | 199.9 | 189.0 |

### Section 5.—Index Numbers of Interest Rates.

Few economic statistics are of more significance than the net rates of interest paid on absolutely the safest securities, such as government bonds maturing on a fixed and definite date. Other interest rates naturally grade upward from the rates which the safest of possible borrowers has to pay, and from the fluctuations of that price an idea may be obtained as to the relation between the supply of, and the demand for, funds for investment.

Prior to the War the funded debt of the Dominion was entirely held outside the country, there being no home market for Canadian Government bonds. Since about the beginning of the century, however, the province of Ontario, the wealthiest and most populous of the provinces of the Dominion, has done its financing largely in Canada itself, and the fluctuation in the rate of yield of Province of Ontario bonds is thus the best long-term indicator of net interest rates in the Dominion. These yields, compiled originally by Wood, Gundy and Co., of Toronto, and furnished by that firm to the Bureau of Statistics, have been recalculated as index numbers on a 1926 base and are shown in Table 14, a particularly interesting feature being the decline in the interest rates index from the high point of 129.4 in October, 1920, to 87.7 in February of 1928. Since the latter date, the scarcity of funds for this type of investment forced the index number up to 104.4 in May and September,

1929, from which point it gradually declined to 92.9 in September, 1930. In January and February, 1931, it had risen to 95.0 but in March and April it declined to 92.9 and in May to 91.9. In the fall months of 1931 yields began to advance sharply, reaching a peak in January, 1932. Tension in financial markets eased appreciably in the latter half of that year, and funds for long-term investment were increasingly plentiful during the next two years. Lower bank interest rates were accompanied by a rise in bond prices in 1934 to the highest level since 1906, and of course a corresponding decline occurred in bond yields. The Province of Ontario bond yield index declined from 99.2 in January, 1933, to 76.2 in December, 1934, rising to 80.8 for April, 1935.

**14.—Index Numbers of Interest Rates in Canada, Calculated from Yields of Ontario Bonds, 1900-35.**  
(Base 1926=100.)

| Month.         | 1900. | 1901. | 1902. | 1903. | 1904. | 1905. | 1906. | 1907. | 1908. | 1909. | 1910. | 1911. |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| January.....   | 73.1  | 77.9  | 79.3  | 78.5  | 78.5  | 78.5  | 76.2  | 78.3  | 88.7  | 82.5  | 81.4  | 83.5  |
| April.....     | 74.1  | 78.5  | 79.3  | 78.5  | 78.5  | 75.2  | 76.2  | 81.4  | 87.7  | 81.4  | 82.5  | 81.0  |
| June.....      | 75.2  | 78.7  | 79.3  | 78.5  | 79.3  | 74.1  | 76.2  | 85.6  | 86.6  | 80.4  | 82.5  | 81.4  |
| October.....   | 77.2  | 78.7  | 79.3  | 78.5  | 79.3  | 75.2  | 76.8  | 87.7  | 85.6  | 80.4  | 82.5  | 81.4  |
| December.....  | 77.7  | 79.3  | 78.5  | 78.5  | 78.3  | 76.2  | 77.2  | 88.7  | 83.5  | 81.4  | 83.5  | 83.5  |
|                | 1912. | 1913. | 1914. | 1915. | 1916. | 1917. | 1918. | 1919. | 1920. | 1921. | 1922. | 1923. |
| January.....   | 83.5  | 88.7  | 91.9  | 88.7  | 109.6 | 100.2 | 125.3 | 121.1 | 120.0 | 125.3 | 116.9 | 112.7 |
| April.....     | 85.6  | 89.8  | 90.8  | 91.9  | 110.6 | 109.6 | 125.3 | 116.9 | 121.1 | 125.3 | 112.7 | 107.5 |
| June.....      | 86.6  | 90.8  | 88.7  | 93.9  | 109.6 | 114.8 | 126.3 | 112.7 | 125.3 | 126.3 | 112.7 | 107.5 |
| October.....   | 87.7  | 91.9  | 88.7  | 104.4 | 104.4 | 123.2 | 125.3 | 116.9 | 129.4 | 126.3 | 111.7 | 107.9 |
| December.....  | 88.7  | 91.9  | 88.7  | 109.6 | 102.3 | 125.3 | 125.3 | 120.0 | 128.4 | 119.4 | 113.2 | 107.3 |
|                | 1924. | 1925. | 1926. | 1927. | 1928. | 1929. | 1930. | 1931. | 1932. | 1933. | 1934. | 1935. |
| January.....   | 106.5 | 99.2  | 100.2 | 97.1  | 89.8  | 97.1  | 102.3 | 95.0  | 119.8 | 99.2  | 97.2  | 76.2  |
| February.....  | 106.1 | 100.2 | 100.2 | 97.1  | 87.7  | 98.1  | 102.3 | 95.0  | 115.9 | 98.7  | 96.0  | 78.3  |
| March.....     | 106.1 | 100.2 | 100.2 | 96.0  | 88.7  | 101.3 | 101.3 | 92.9  | 110.6 | 100.0 | 90.1  | 79.5  |
| April.....     | 106.1 | 100.2 | 100.2 | 95.2  | 88.7  | 103.3 | 101.3 | 92.9  | 111.3 | 101.3 | 87.7  | 80.8  |
| May.....       | 106.1 | 99.2  | 100.2 | 95.0  | 90.8  | 104.4 | 101.3 | 91.9  | 113.2 | 98.1  | 84.8  | —     |
| June.....      | 105.8 | 99.2  | 100.2 | 95.0  | 91.9  | 103.3 | 100.8 | 91.9  | 114.4 | 97.1  | 85.4  | —     |
| July.....      | 103.5 | 99.2  | 100.2 | 95.0  | 93.9  | 103.3 | 100.2 | 92.9  | 110.6 | 96.7  | 83.1  | —     |
| August.....    | 99.2  | 99.2  | 100.2 | 95.0  | 96.0  | 102.3 | 96.0  | 91.9  | 103.3 | 95.0  | 82.3  | —     |
| September..... | 99.2  | 99.2  | 100.2 | 95.0  | 96.0  | 104.4 | 92.9  | 97.4  | 101.9 | 95.8  | 82.0  | —     |
| October.....   | 100.2 | 100.2 | 100.2 | 93.9  | 95.0  | 103.3 | 93.9  | 103.3 | 98.1  | 94.6  | 82.9  | —     |
| November.....  | 99.2  | 100.2 | 99.2  | 93.3  | 95.0  | 103.3 | 93.9  | 105.4 | 102.3 | 97.3  | 81.0  | —     |
| December.....  | 99.2  | 100.2 | 99.2  | 90.8  | 96.0  | 102.3 | 93.9  | 108.6 | 102.7 | 98.5  | 76.2  | —     |

## Section 6.—Index Numbers of Import and Export Valuations.

Index numbers of import and export valuations have been computed by the Bureau of Statistics since 1920 and are shown in Table 15 for the calendar years 1924-33. Fifty export and 60 import commodities are included in the calculations. The year 1913 has been taken as the base. Index numbers were calculated on the aggregative principle and both an individual and a group system of weighting has been used on the basis of quantities imported or exported.\*

\*For list of commodities included, see Appendix A of "Prices and Price Indexes, 1913-28".

## 15.—Index Numbers of Export and Import Valuations, calendar years 1924-33.

(1913=100.)

## EXPORTS.

| Group.                                     | Number of Items. | 1924.        | 1925.        | 1926.        | 1927.              | 1928.        | 1929.        | 1930.        | 1931.       | 1932.       | 1933.       |
|--------------------------------------------|------------------|--------------|--------------|--------------|--------------------|--------------|--------------|--------------|-------------|-------------|-------------|
| Vegetables and their products.....         | 14               | 133.1        | 155.2        | 150.9        | 143.5              | 132.1        | 130.1        | 99.9         | 73.6        | 69.3        | 74.4        |
| Animals and their products.....            | 11               | 136.3        | 155.1        | 148.0        | 145.7 <sup>1</sup> | 155.7        | 155.7        | 145.9        | 118.3       | 98.9        | 97.2        |
| Fibres, textiles and textile products....  | 2                | 161.1        | 165.8        | 140.3        | 126.7              | 143.7        | 126.0        | 89.4         | 68.0        | 47.8        | 68.0        |
| Wood, wood products and paper.....         | 8                | 173.3        | 167.9        | 162.4        | 158.5              | 156.4        | 153.9        | 142.2        | 125.7       | 109.4       | 96.1        |
| Iron and its products..                    | 4                | 88.3         | 83.8         | 82.9         | 92.0               | 81.0         | 82.9         | 80.5         | 79.3        | 79.1        | 78.8        |
| Non-ferrous metals and their products..    | 6                | 123.3        | 132.9        | 129.4        | 120.0              | 121.1        | 126.6        | 109.4        | 88.5        | 78.1        | 91.6        |
| Non-metallic minerals and their products.. | 2                | 181.1        | 169.9        | 172.8        | 173.3              | 172.8        | 177.0        | 164.0        | 155.9       | 140.7       | 146.2       |
| Chemicals and allied products.....         | 3                | 109.0        | 109.6        | 107.6        | 97.0               | 87.4         | 85.5         | 83.7         | 76.6        | 70.5        | 58.1        |
| <b>Totals, Exports..</b>                   | <b>50</b>        | <b>139.6</b> | <b>151.7</b> | <b>147.0</b> | <b>144.0</b>       | <b>137.6</b> | <b>136.9</b> | <b>116.8</b> | <b>95.2</b> | <b>85.1</b> | <b>86.1</b> |

## IMPORTS.

|                                            |           |                          |                          |                          |                          |                          |                          |                          |                         |                         |             |
|--------------------------------------------|-----------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------|-------------------------|-------------|
| Vegetables and their products.....         | 15        | 167.2                    | 154.8                    | 149.6                    | 153.3                    | 144.4                    | 130.6                    | 117.0                    | 100.9                   | 87.2                    | 87.2        |
| Animals and their products.....            | 3         | 78.9                     | 93.6                     | 86.9                     | 95.0                     | 119.2                    | 94.9                     | 75.1                     | 58.0                    | 36.6                    | 51.6        |
| Fibres, textiles and textile products....  | 15        | 181.7                    | 184.0                    | 158.0                    | 143.7                    | 153.8                    | 147.1                    | 123.0                    | 86.0                    | 74.6                    | 81.0        |
| Wood, wood products and paper.....         | 3         | 167.0                    | 175.6                    | 164.7                    | 141.7                    | 142.1                    | 150.9                    | 144.8                    | 117.9                   | 114.8                   | 116.2       |
| Iron and its products..                    | 11        | 107.4                    | 98.6                     | 95.0                     | 95.0                     | 93.6                     | 95.7                     | 99.4                     | 92.6                    | 94.1                    | 83.0        |
| Non-ferrous metals and their products..    | 3         | 87.1 <sup>1</sup>        | 94.0 <sup>1</sup>        | 98.0 <sup>1</sup>        | 97.4 <sup>1</sup>        | 99.9 <sup>1</sup>        | 117.9 <sup>1</sup>       | 148.2 <sup>1</sup>       | 107.0 <sup>1</sup>      | 123.5 <sup>1</sup>      | 130.0       |
| Non-metallic minerals and their products.. | 7         | 145.4                    | 143.9                    | 141.7                    | 130.1                    | 124.8                    | 123.6                    | 117.2                    | 100.6                   | 97.5                    | 87.4        |
| Chemicals and allied products.....         | 3         | 146.9                    | 140.3                    | 148.7                    | 148.2                    | 138.6                    | 134.3                    | 154.5                    | 151.7                   | 164.0                   | 155.3       |
| <b>Total, Imports..</b>                    | <b>60</b> | <b>141.7<sup>1</sup></b> | <b>139.2<sup>1</sup></b> | <b>131.2<sup>1</sup></b> | <b>126.4<sup>1</sup></b> | <b>127.1<sup>1</sup></b> | <b>123.0<sup>1</sup></b> | <b>116.0<sup>1</sup></b> | <b>95.9<sup>1</sup></b> | <b>90.4<sup>1</sup></b> | <b>88.9</b> |
| <b>Combined Indexes</b>                    | <b>-</b>  | <b>140.5<sup>1</sup></b> | <b>146.1<sup>1</sup></b> | <b>139.9<sup>1</sup></b> | <b>136.1<sup>1</sup></b> | <b>132.9<sup>1</sup></b> | <b>130.6</b>             | <b>116.4<sup>1</sup></b> | <b>95.5<sup>1</sup></b> | <b>87.5<sup>1</sup></b> | <b>87.4</b> |

<sup>1</sup>Revised since the publication of the 1933 Year Book.



## CHAPTER XXI.—PUBLIC FINANCE.

The following treatment of public finance includes an outline of Dominion, provincial and municipal finance in Canada, supported by the necessary detailed statistics, and closes with a brief discussion of the national wealth and national income of the Dominion as the basis of all public finance.

The great increase in Dominion expenditure since 1913 has, of course, been mainly due to the Great War and the burden of interest, pension charges, soldiers' civil re-establishment, etc., resulting from the War. Similar increases have also taken place during the same period in provincial and municipal expenditures. Thus, in their fiscal years ended 1933, the total ordinary expenditure of the nine Provincial Governments was \$200,528,217 as compared with \$53,826,219 in 1916, only 17 years before—an increase of almost 273 p.c. (The aggregate interest payments of Provincial Governments rose from \$7,817,844 in 1916 to \$62,546,792 in 1933.) Again, between 1913 and 1932, the aggregate taxes imposed by the municipalities of Ontario increased from \$34,231,214 to \$126,835,014—an increase of 270·5 p.c. In Quebec the ordinary receipts of municipalities increased from \$33,865,750 in 1915 to \$85,798,988 in 1932—an increase of 153·4 p.c. In Manitoba the increase in municipal taxation has been from \$7,730,122 in 1913 to \$20,598,300 in 1932—an increase of 166·5 p.c. In Saskatchewan the grand total of municipal tax levies was \$13,358,627 in 1914 and \$24,388,477 in 1932. In Alberta the municipal taxes levied amounted to \$9,791,846 in 1914 and to \$15,453,640 in 1932. In British Columbia the taxes collected by the municipalities totalled \$9,382,099 in 1917 and \$17,089,972 in 1932. Finally in the extreme east the aggregate tax receipts of the municipalities of Nova Scotia were \$6,613,675 in 1932 as compared with \$3,443,681 as recently as 1919—an increase of 92·1 p.c. in the last thirteen years. The seven provinces covered by these statistics contained in 1931 approximately 95 p.c. of the population of the Dominion.

### Section 1.—Dominion Public Finance.\*

**Historical Sketch.**—Both under the French *régime* and in the earlier part of the British, the territorial or casual revenues of Canada, consisting of certain seigniorial dues and the proceeds of the sale of government timber and land, were reserved to the Crown, while the right of levying taxes and of regulating the trade and commerce of the colony was, after 1763, deemed to be vested in the British Parliament.

By the Quebec Act of 1774, certain duties on spirits and molasses were imposed, to be expended by the Crown in order to provide a revenue "towards defraying

\* The statistics in this section have been made up from the Public Accounts and were finally revised by the Department of Finance, with the exception of those parts dealing with war tax revenue and inland revenue on pp. 896 to 902, which were revised by the Department of National Revenue.

the expenses of the administration of justice and the support of the civil government of the province". A little later, in 1778, the British Government, by the Declaratory Act (18 Geo. III, c. 12), renounced forever the right of taxing the colonies to provide Imperial revenue, but maintained its claim to impose duties considered necessary for the regulation of trade, the proceeds to go towards defraying the expenditures of the colonial administration. After the Constitutional Act of 1791, the customs duties remained under the control of the Imperial Government, their revenue, as well as the territorial revenue above mentioned, coming in to the Executive Administration independently of the Legislative Assembly and thus making the Executive power largely independent of the Legislature. In case these revenues proved insufficient, recourse could generally be had to the grant made by the Imperial Government for the support of the army. As time went on, however, the Crown revenues became more and more inadequate to meet the increasing expenditure, while the wave of economy in the United Kingdom after 1815 made it impossible any longer to supplement these revenues from military sources. On the other hand, the purely provincial revenues collected under the authorization of the Provincial Legislature showed an increasing surplus. The power of the purse thus began to pass into the hands of the Legislatures; further, in 1831 the British Parliament passed an Act placing the customs duties at the disposal of the Legislatures.

Under the Act of Union, a consolidated revenue fund was established. All appropriation bills were required to originate in the Legislative Assembly, which was forbidden to pass any vote, resolution or bill involving the expenditure of public money unless the same had first been recommended by a written message of the Governor General. The British Government surrendered all control of the hereditary or casual revenues, which were thenceforth paid into the treasury of the province to be disposed of as its Legislature should direct.

At the interprovincial conference which took place prior to Confederation, it was decided that the new Dominion Government, which was to take over permanently, as its chief source of revenue, the customs and excise duties that had yielded the greater part of the revenues of the separate provinces (direct taxation being as unpopular in British North America as in other new countries), was also to assume the provincial debts and to provide out of Dominion revenues definite cash subsidies for the support of the Provincial Governments. (See Tables 16 and 17.) Until the Great War, which made other taxes necessary, the customs and excise revenue constituted the chief resource of the Dominion Government for general purposes—the Post Office revenue and the Government railway receipts, which are not taxes at all, being mainly or entirely absorbed by the expenses of administering these services. Indeed, for many years preceding the War, customs and excise duties, together with the revenue from the head tax on Chinese immigrants, were the only items of receipts which were classified as taxes by the Department of Finance. In the last pre-war fiscal year these two items aggregated \$126,143,275 out of total receipts on consolidated fund account amounting to \$163,174,395,

the Post Office and Government railways furnishing between them \$26,348,847 of the remainder, offset, however, by expenditures on these two services amounting to \$27,757,196. Miscellaneous revenue, largely fees, amounted in that year to \$10,-682,273—a comparatively small fraction of the total. As both customs and excise taxes were indirect, the average Canadian felt but little the pressure of taxation for Dominion purposes.

The War enormously increased the expenditure, and this increase had in the main to be met by loans. It is, however, a cardinal maxim of public finance that, where loans are contracted, sufficient new taxation should be imposed to meet the interest charge upon the loans and to provide a sinking fund for their ultimate extinction. This war taxation was begun in Canada within the first weeks of the War when, in the short war session of August, 1914, increases were made in the customs and excise duties on various commodities, including coffee, sugar, spirituous liquors and tobacco. In 1915 special additional duties of 5 p.c. *ad valorem* were imposed on commodities imported under the British preferential tariff and 7½ p.c. *ad valorem* on commodities imported under the intermediate and general tariffs, certain commodities being excepted. New internal taxes were also imposed on bank circulation, on the income of trust and loan companies, on insurance in other than life and marine companies, on telegrams and cablegrams, railway tickets, sleeping-car berths, etc., also on cheques, postal notes, money orders, letters and post cards. In the following year, the business profits war tax (dropped in 1921)\* was introduced, and in 1917 an income tax was imposed. In 1918 both of these taxes were increased and their application widened, and in 1919 the income tax was again increased, and still further augmented in 1920 by a surtax of 5 p.c. of the tax on incomes of \$5,000 and over; the sales tax was also introduced in that year. The cumulative result of these war taxes was that, in the fiscal year ended Mar. 31, 1921, customs duties were for the first time displaced from their position as the chief factor in Canadian revenue, the war taxes yielding \$168,385,327, as against the customs yield of \$163,266,804. In 1922 war taxes yielded \$177,484,161, while the yield of the customs fell to \$105,686,645. Again, in 1923 the war taxes yielded \$181,634,875 and customs duties \$118,056,469, in 1924 \$182,032,661 and \$121,500,798, in 1925 \$147,164,158 and \$108,146,871, in 1926 \$157,296,320 and \$127,355,144, in 1927 \$156,167,434 and \$141,968,678. In 1928, however, the customs duties yielded \$156,985,818 as against \$150,319,087 collected by the war taxes, in 1929 \$187,206,332 as against \$145,029,742, in 1930 \$179,429,920 as against \$134,086,005, and in 1931 \$131,208,955 as against \$107,320,633. The situation was again reversed in 1932, when war taxes yielded \$122,266,064 and customs duties \$104,132,677; in 1933, when war taxes were \$146,412,011 as against \$70,072,-932; and in 1934, when they were \$170,051,973 as against \$66,305,356 for customs duties.

\* Related revenue from this tax has been collected in subsequent fiscal years down to 1933 (see Table 8, p. 897).

A more detailed sketch of the changes made in taxation from 1914 to 1926 will be found at pp. 755-759 of the 1926 Year Book, while similar information re tax changes in 1927 to 1929 was given at pp. 791-792 of the 1930 Year Book.

**Recent Modifications in the System of Taxation.**—In 1930, the general rate of the sales tax was reduced from 2 to 1 p.c. *Bona fide* co-operative organizations, government or like annuities (to the extent of \$5,000), and donations to churches, schools and hospitals (to a maximum of 10 p.c. of the net income of the taxpayer) were exempted from income tax, and the \$500 exemption for children was extended to cover certain dependent relatives suffering from mental or physical infirmity. In the customs tariff, the iron and steel schedules were completely revised, seasonal tariffs were adopted in respect of fruits and vegetables, duties were reduced under certain tariffs on tea, porcelain and chinaware and meats and increased on beans and butter, and so-called countervailing duties were imposed in respect of 16 commodities. The year was unusual in that it saw a second tariff revision, namely, that of the special session of September, when the anti-dumping clauses of the tariff were re-written and very many changes were made in rates of duty in the schedules. Increases were made *inter alia* on most agricultural products, on printed matter and manufactures of paper, on numerous commodities in the iron and steel group, on a wide range of textile items and on boots and shoes. Power was granted to the Governor in Council to prohibit the importation into Canada of goods exported to the Dominion from any country not a contracting party to the Treaty of Versailles.

In 1931, the general rate of the sales tax was increased from 1 to 4 p.c. Tax-free limit for cheques, receipts for money paid by banks, money orders, travellers cheques and Post Office money orders was reduced from \$10 to \$5 and postage stamps could be used on such documents in lieu of excise tax stamps. A special excise tax of 1 p.c. was imposed on importations. As regards the customs tariff, the 1931 session saw several further amendments of the administrative clauses of the tariff, the powers of the Governor in Council in the matter of the making of tariffs being widened to include the granting and withdrawing of rates more favourable than those of the British preferential tariff. Provision was made for penalty in the case of any person guilty of using the tariff to increase prices to consumers. Rates were altered on many items, the countervailing duties having been rescinded in entirety at the special session in September, 1930. Increases were made on fresh and canned meats, tea, field and garden seeds, prepared foods, containers, wall-boards, spray mixtures, building stone and granite, steel plate, motor vehicles, wood veneers, various textiles, coal and coke, leather and leather goods, and numerous other commodities. The importation of second-hand motor vehicles, except under specified exceptional circumstances, was prohibited.

In April, 1932, the income tax was raised to 11 p.c. on corporations and joint-stock companies. In the case of personal incomes, the deduction of 20 p.c. formerly allowed from the tax payable under the established schedule of rates was repealed;



a surcharge of 5 p.c. was made on net incomes of over \$5,000 and the exemptions were reduced from \$3,000 to \$2,400 for married persons, and from \$1,500 to \$1,200 for single persons. These changes applied to 1931 incomes. The sales tax was increased by 2 p.c. to 6 p.c., and the special excise tax on goods imported into Canada was raised from 1 p.c. to 3 p.c. The stamp tax on cheques, promissory notes, money orders, etc., was increased from 2 cents for each instrument over \$5, to 3 cents on amounts between \$5 and \$100, and 6 cents over \$100. Sleeping-car tickets were taxed 10 p.c. (minimum 25 cents) and parlour-car tickets 10 cents flat; there were also changes in the tax rates of cable and telegraphic messages and in the stock and bond transfer tax. No important tariff changes were made in view of arrangements for the then pending Imperial Economic Conference. (The tariff changes resulting from the Imperial Economic Conference and enacted at the fourth session of the 17th Parliament, which opened on Oct. 6, 1932, were briefly dealt with on pp. 485-486 of the 1933 Year Book.)

In 1933, the tax on corporation incomes was raised to  $12\frac{1}{2}$  p.c. and the \$2,000 exemption was removed. Where a consolidated statement of a company and its subsidiaries was compiled, the tax rate was set at  $13\frac{1}{2}$  p.c. On personal incomes the exemption was reduced from \$2,400 to \$2,000 for married or from \$1,200 to \$1,000 for single persons, and the exemption for dependent children was lowered from \$500 to \$400. The rate of taxation was increased according to a new schedule, the tax on the first \$1,000 of taxable income being 3 p.c. In certain cases, new taxes of 5 p.c. were imposed at the source on interest or dividends paid by Canadian debtors to non-residents (Dominion Government bonds were exempt from this tax), or to residents where such interest or dividend is paid in funds which are at a premium in relation to Canadian exchange. The sales tax remained at 6 p.c., though with a view to additional revenue an adjustment of the exempt and the partly exempt lists was made. Special excise taxes were levied as follows: 10 p.c. on cosmetics and toilet preparations; 5 p.c. on automobile tires and tubes; 2 cents per lb. on refined sugar; 25 cents per gallon on unfermented wort; and 50 cents per lb. on malt syrup and malt products. The provision of the Special War Revenue Act exempting from the stamp tax cheques, receipts to banks, money orders, travellers cheques, etc., not exceeding \$5 in value was repealed (except as regards creamery tickets or cheques). The stamp tax on postal notes was raised from 1 to 3 cents. Cigarette papers and tubes were taxed 2 cents per hundred leaves and 5 cents for 50 tubes, respectively. The excise duty on distilled spirits used in the manufacture of proprietary medicines, extracts, perfumes, etc., was made \$2.50 per proof gallon and an excise duty of \$1 per proof gallon was imposed on spirits distilled from juices of native fruits used by wine manufacturers in fortifying native wines.

In 1934, the tax changes proposed were of limited character. The chief changes were the reduction of the excise tax on sugar by 1 cent per lb. and the proposed imposition of a tax of 10 p.c. on gold, to be deducted from the proceeds of all gold

deposited at the Mint for sale and to replace the revenue lost by the partial remission of the tax on sugar. It was pointed out that the recent prosperity of the gold-mining industry was due largely to circumstances entirely external to the industry, *viz.*, an increase in the selling price of gold by about 70 p.c. as a result of the chaotic condition of world currencies, the depreciation of our dollar in foreign exchanges and the revaluation of gold in certain countries. As finally approved, the legislation provided for a levy of 25 p.c. on the premium value of gold in place of 10 p.c. on the total value, and it was further provided that the tax should not reduce the amount received by the depositor below \$30 per oz. Further, only those mines which had paid dividends continuously since 1933 were made liable to the premium tax on gold, thus relieving from taxation newly developed or low-grade properties which have not, until recently, been operating profitably. Placer gold was also exempted. Producers paying the tax were allowed some compensation in income tax adjustment and in exemption from the usual handling charge at the Mint. Excise duties were changed principally by consolidating the duty of 3 cents per lb. on malt and the gallonage tax of  $12\frac{1}{2}$  cents on beer into a single excise duty of  $7\frac{1}{2}$  cents per lb. on malt, the net result being a slight reduction in the rate of taxation to which beer was directly or indirectly subject, calculated on a gallonage basis. Reductions under the British preferential customs tariff were made in the case of certain items of major commercial importance, including jute yarns, wide steel plates, salt cake, crude oil not in its natural state, impregnated canvas, and yarns of artificial silk. Numerous chemical commodities of a less important nature were returned to the free list. Duties were imposed under the intermediate or general tariff schedules on pea-nut oil and were increased on certain ferro-alloys. Duties on jute twines were increased under all tariffs. On all imports under the British preferential tariff, the special excise tax was reduced from 3 to  $1\frac{1}{2}$  p.c.

### Subsection 1.—The Current Balance Sheet of the Dominion.

A summary review of the current financial situation of the Dominion as at Mar. 31, 1933 and 1934 is given in the balance sheets shown as Table 1. This shows the figures for gross debt on the above dates to have been \$2,996,366,665 and \$3,141,042,097 respectively, partly offset by active assets aggregating \$399,885,839 and \$411,063,956, leaving the figures for net debt at \$2,596,480,826 and \$2,729,978,141 respectively.\* Non-active assets, including such public works as canals and railways, also loans to railways, amounted in the aggregate to \$1,785,063,662 and \$1,794,558,864, leaving debit balances on Consolidated Fund Account on Mar. 31 of \$811,417,164 and \$935,419,276 respectively. The details of the various assets and liabilities are contained in the schedules accompanying the balance sheet and printed in the Public Accounts.

\* The net debt on Mar. 31, 1925 was \$2,417,437,686; on Mar. 31, 1926, \$2,389,731,099; on Mar. 31, 1927, \$2,347,834,370; on Mar. 31, 1928, \$2,296,850,233; on Mar. 31, 1929, \$2,225,504,705; on Mar. 31, 1930, \$2,177,763,959; on Mar. 31, 1931, \$2,261,611,936, and on Mar. 31, 1932, \$2,375,846,172. See Table 20, p. 908.

## 1.—Balance Sheet of the Dominion of Canada, as at Mar. 31, 1933 and 1934.

(From the Public Accounts.)

| Item.                                                                                                                                       | 1933.         | 1934.         |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| <b>ACTIVE ASSETS—</b>                                                                                                                       | <b>\$</b>     |               |
| Cash on hand and in banks.....                                                                                                              | 1,555,876     | 9,874,579     |
| Specie reserve.....                                                                                                                         | 69,875,518    | 71,406,030    |
| Advances to provinces, banks, etc.....                                                                                                      | 185,226,291   | 191,920,712   |
| Advances to foreign governments.....                                                                                                        | 30,494,720    | 30,494,720    |
| Soldier and general land settlement loans.....                                                                                              | 47,711,084    | 45,219,132    |
| Miscellaneous current accounts.....                                                                                                         | 65,022,350    | 62,148,783    |
| Total Active Assets.....                                                                                                                    | 399,885,839   | 411,063,956   |
| Balance of Liabilities over Active Assets, being Net Debt, Mar. 31,<br>(exclusive of interest accrued and outstanding carried forward)..... | 2,596,480,826 | 2,729,978,141 |
|                                                                                                                                             | 2,996,366,665 | 3,141,042,097 |
| <b>NON-ACTIVE ASSETS—</b>                                                                                                                   |               |               |
| Public Works, canals.....                                                                                                                   | 240,104,671   | 242,079,744   |
| Public Works, railways.....                                                                                                                 | 443,546,600   | 443,182,346   |
| Public Works, miscellaneous.....                                                                                                            | 247,245,431   | 252,124,944   |
| Military property and stores.....                                                                                                           | 12,035,420    | 12,035,420    |
| Territorial accounts.....                                                                                                                   | 9,895,947     | 9,895,948     |
| Railway accounts (old).....                                                                                                                 | 88,398,829    | 88,398,829    |
| Railway accounts (loans non-active).....                                                                                                    | 655,527,456   | 655,527,456   |
| Canadian National Steamships (loans non-active).....                                                                                        | 15,367,531    | 15,353,467    |
| Miscellaneous investments and other accounts (non-active).....                                                                              | 72,941,777    | 75,960,711    |
| Balance Consolidated Fund as at Mar. 31 of preceding year.....                                                                              | 667,125,994   | 811,417,164   |
| Excess of expenditure over revenue, year ended Mar. 31.....                                                                                 | 144,291,170   | 124,002,112   |
|                                                                                                                                             | 2,596,480,826 | 2,729,978,141 |
| <b>LIABILITIES—</b>                                                                                                                         |               |               |
| Dominion Notes in circulation.....                                                                                                          | 180,926,882   | 172,617,922   |
| Bank Note Circulation Redemption Fund.....                                                                                                  | 6,584,813     | 6,486,355     |
| Post Office account, money orders, postal notes, etc., outstanding.....                                                                     | 2,184,456     | 3,570,744     |
| Post Office Savings Bank deposits.....                                                                                                      | 23,920,915    | 23,158,919    |
| Insurance and superannuation funds.....                                                                                                     | 98,500,189    | 109,481,507   |
| Trust funds.....                                                                                                                            | 18,525,396    | 18,271,120    |
| Contingent and special funds.....                                                                                                           | 2,594,601     | 4,441,481     |
| Province accounts.....                                                                                                                      | 9,623,817     | 9,623,817     |
| Funded Debt.....                                                                                                                            | 2,651,898,934 | 2,791,706,560 |
| Interest due and outstanding.....                                                                                                           | 1,606,662     | 1,683,672     |
| Total Liabilities or Gross Debt.....                                                                                                        | 2,996,366,665 | 3,141,042,097 |

<sup>1</sup> Indirect Liabilities—Guarantees given by the Dominion of Canada are listed on pp. 912-915.

### Subsection 2.—Receipts and Disbursements.

The receipts of the Dominion Government on Consolidated Fund Account for the fiscal year ended Mar. 31, 1934, were \$324,062,000, an increase of \$17,425,010 as compared with the preceding year; besides these, special receipts amounted to \$409,271—a total of \$324,471,271 (Table 2). The regular expenditure on Consolidated Fund Account was \$346,648,546, while special expenditure, including net income deficit of the Canadian National Railways for 1933, amounted to \$101,733,833. There were also a net expenditure on capital account of \$6,490,333 and other net expenditures of \$3,095,873, including advances to Harbour Commissioners (non-active) \$2,109,837. Thus the total disbursements, inclusive of these and other advances, amounted to \$457,968,585. There was an increase of \$133,497,315 in the net debt (gross debt less active assets) during the year. (See Table 24 for interest-bearing debt.)

Detailed statistics of receipts and disbursements are contained in Tables 2 and 3. Tables 4 and 5 are historical tables giving the figures of the main items of Dominion receipts and expenditure since Confederation, while Table 6 shows the per capita receipts and expenditure for these years, calculated on census and estimated populations. Per capita receipts and expenditures are given by principal items in Table 7.

### 2.—Details of Revenue Receipts, fiscal years ended Mar. 31, 1930-34.

| Item.                                        | 1930.              | 1931.              | 1932.              | 1933.                | 1934.              |
|----------------------------------------------|--------------------|--------------------|--------------------|----------------------|--------------------|
| <b>Consolidated Fund Receipts—</b>           | <b>\$</b>          | <b>\$</b>          | <b>\$</b>          | <b>\$</b>            | <b>\$</b>          |
| Taxation—                                    |                    |                    |                    |                      |                    |
| Customs.....                                 | 179,429,920        | 131,208,955        | 104,132,677        | 70,072,932           | 66,305,356         |
| Excise duties.....                           | 65,035,701         | 57,746,808         | 48,654,862         | 37,833,858           | 35,494,220         |
| War Tax Revenue—                             |                    |                    |                    |                      |                    |
| Banks.....                                   | 1,408,420          | 1,429,264          | 1,390,121          | 1,327,535            | 1,335,546          |
| Trust and loan companies.....                | —                  | 6                  | —                  | —                    | —                  |
| Insurance companies.....                     | 74,416             | 74,250             | 12,152             | 826,150              | 741,681            |
| Business profits.....                        | 173,300            | 34,430             | 3,000              | 54                   | —                  |
| Income tax.....                              | 69,020,726         | 71,048,022         | 61,254,400         | 62,066,697           | 61,399,172         |
| Sales tax.....                               | 44,114,249         | 20,152,524         | 42,392,610         | 57,977,572           | 63,223,608         |
| Tax on cheques, transportation tax, etc..... | 19,294,894         | 14,582,137         | 17,213,781         | 24,214,003           | 43,351,966         |
| <b>Totals, Receipts from Taxation.....</b>   | <b>378,551,626</b> | <b>296,276,396</b> | <b>275,053,603</b> | <b>254,318,801</b>   | <b>271,851,549</b> |
| <b>Non-Tax Revenue—</b>                      |                    |                    |                    |                      |                    |
| Canada Gazette.....                          | 93,890             | 71,197             | 73,590             | 73,836               | 55,722             |
| Canals.....                                  | 1,043,647          | 1,026,671          | 976,845            | 831,020              | 877,630            |
| Casual.....                                  | 4,291,162          | 3,669,217          | 4,277,157          | 4,594,306            | 4,896,204          |
| Chinese revenue.....                         | 14,345             | 21,996             | 10,059             | 8,652                | 6,237              |
| Dominion lands.....                          | 4,139,104          | 1,655,401          | 485,364            | 458,934              | 418,729            |
| Electric light inspection.....               | 546,957            | 632,151            | 402,189            | 298,352              | 440,290            |
| Fines and forfeitures.....                   | 748,343            | 433,716            | 233,513            | 212,075              | 177,812            |
| Fisheries.....                               | 110,724            | 73,937             | 40,519             | 4,429                | 39,508             |
| Gas inspection.....                          | 100,763            | 94,255             | 81,359             | 84,078               | 76,186             |
| Inspection of staples (Grain Act).....       | 2,047,207          | 2,179,047          | 1,484,826          | 1,444,840            | 1,235,621          |
| Insurance inspection.....                    | 138,780            | 148,942            | 149,902            | 160,298              | 148,535            |
| Interest on investments.....                 | 13,518,205         | 10,421,224         | 9,330,125          | 11,220,989           | 11,148,231         |
| Law stamps.....                              | 9,548              | 9,270              | 9,586              | 11,970               | 8,440              |
| Mariners' fund.....                          | 209,322            | 201,768            | 184,485            | 178,962              | 188,054            |
| Military college.....                        | 19,820             | 19,882             | 20,046             | 20,116               | 20,317             |
| Military pension revenue.....                | 158,881            | 159,000            | 163,229            | 166,414              | 165,207            |
| Ordnance lands.....                          | 30,277             | 29,384             | 14,250             | 16,677               | 17,854             |
| Patent fees.....                             | 574,918            | 559,646            | 525,248            | 539,341              | 429,341            |
| Penitentiaries.....                          | 181,024            | 183,288            | 166,111            | 121,426              | 97,962             |
| Post Office.....                             | 33,345,385         | 30,212,326         | 32,234,946         | 30,928,317           | 30,893,157         |
| Premium, discount and exchange.....          | 531,866            | 521,087            | 2,898,292          | 145,938 <sup>1</sup> | 1                  |
| Public works.....                            | 461,432            | 417,059            | 359,264            | 287,856              | 354,574            |

<sup>1</sup> For footnote see end of table, p. 889.



## 2.—Details of Revenue Receipts, fiscal years ended Mar. 31, 1930-34—concluded.

| Item.                                        | 1930.              | 1931.              | 1932.              | 1933.              | 1934.              |
|----------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Consolidated Fund Receipts—concluded.</b> |                    |                    |                    |                    |                    |
| Non-Tax Revenue—concluded.                   |                    |                    |                    |                    |                    |
| R.C.M.P. Officers' pensions.....             | \$ 6,471           | \$ 6,357           | \$ 14,787          | \$ 12,050          | \$ 12,444          |
| Steamboat inspection.....                    | 131,356            | 144,332            | 113,232            | 103,091            | 102,679            |
| Superannuation fund.....                     | 5                  | —                  | —                  | —                  | —                  |
| Weights and measures.....                    | 407,248            | 419,750            | 406,529            | 394,222            | 399,717            |
| <b>Totals, Consolidated Fund Receipts</b>    | <b>441,411,806</b> | <b>349,587,299</b> | <b>329,709,056</b> | <b>306,636,990</b> | <b>324,062,000</b> |
| <b>Special Receipts—</b>                     |                    |                    |                    |                    |                    |
| Miscellaneous revenue.....                   | 4,505,186          | 6,573,577          | 7,012,249          | 4,489,339          | 409,271            |
| <b>Totals, Receipts</b>                      | <b>445,916,992</b> | <b>356,160,876</b> | <b>336,721,305</b> | <b>311,126,329</b> | <b>324,471,271</b> |

<sup>1</sup> The policy regarding the recording of premium, discount and exchange has been changed since 1932, the net balance only being shown for 1933 and 1934 in place of the receipts and disbursements on this account as in former years.

## 3.—Details of Expenditures, fiscal years ended Mar. 31, 1930-34.

NOTE.—"Adulteration of food", \$120,927, "Marine hospitals", \$135,218, and "Quarantine", \$125,827, for 1934, have been classified in the Public Accounts under the heading "Health" since 1928, but are here deducted and shown separately so as not to break the comparability of the figures with those of earlier years. The Public Accounts item "Health" is therefore \$508,413 for 1934, compared with the \$126,441 shown here.

| Item.                                               | 1930.              | 1931.              | 1932.              | 1933.              | 1934.                |
|-----------------------------------------------------|--------------------|--------------------|--------------------|--------------------|----------------------|
|                                                     | \$                 | \$                 | \$                 | \$                 | \$                   |
| <b>Consolidated Fund Expenditure—</b>               |                    |                    |                    |                    |                      |
| Charges on Debt—                                    |                    |                    |                    |                    |                      |
| Charges of management.....                          | 1,015,766          | 920,136            | 866,812            | 870,760            | 707,607              |
| Interest on debt.....                               | 121,566,213        | 121,289,844        | 121,151,106        | 134,999,069        | 139,725,417          |
| Premium, discount and exchange.....                 | 72,976             | 19,477             | 3,625,697          | <sup>1</sup>       | 167,026 <sup>1</sup> |
| <b>Totals, Charges on Debt</b>                      | <b>122,654,955</b> | <b>122,229,457</b> | <b>125,643,615</b> | <b>135,869,829</b> | <b>140,600,050</b>   |
| Adulteration of food.....                           | 156,567            | 147,517            | 147,770            | 126,818            | 120,927              |
| Administration of justice.....                      | 2,198,909          | 2,214,268          | 2,222,307          | 2,167,298          | 2,407,817            |
| Aviation (formerly Air Board).....                  | 5,920,670          | 7,147,018          | 4,039,795          | 1,731,219          | 1,684,562            |
| Agriculture.....                                    | 9,286,746          | 9,143,978          | 9,205,724          | 7,159,631          | 6,189,510            |
| Bounties.....                                       | 40,030             | 92,181             | 150,548            | 137                | —                    |
| Civil Government.....                               | 12,258,009         | 12,628,382         | 12,135,790         | 10,726,125         | 9,349,936            |
| National Revenue (formerly Customs and Excise)..... | 13,130,611         | 13,206,442         | 13,144,210         | 9,814,505          | 9,448,438            |
| Department of Mines.....                            | 805,748            | 789,327            | 634,773            | 512,005            | 394,228              |
| Dominion Lands.....                                 | 5,479,835          | 4,970,069          | 2,626,744          | 1,998,620          | 1,574,030            |
| Fisheries.....                                      | 2,274,294          | 2,261,817          | 1,868,820          | 1,641,776          | 1,482,405            |
| Government of N.W. Territories.....                 | 574,950            | 763,125            | 513,234            | 406,140            | 379,973              |
| Health.....                                         | 401,155            | 378,635            | 303,050            | 143,761            | 126,441              |
| Immigration.....                                    | 2,757,331          | 2,255,249          | 1,873,006          | 1,406,031          | 1,155,314            |
| Indians.....                                        | 5,134,553          | 5,866,219          | 4,880,322          | 4,318,187          | 4,232,597            |
| Labour.....                                         | 2,366,399          | 6,559,520          | 10,657,853         | 12,064,619         | 12,778,023           |
| Legislation.....                                    | 2,318,925          | 4,662,548          | 2,916,883          | 3,145,583          | 1,421,754            |
| Lighthouse and coast service.....                   | 2,874,623          | 3,391,826          | 2,594,356          | 2,037,143          | 2,071,997            |
| Mail subsidies and steamship subventions.....       | 1,083,436          | 1,322,745          | 2,998,724          | 2,081,818          | 2,220,661            |
| Marine hospitals.....                               | 253,649            | 209,006            | 208,846            | 158,003            | 135,218              |
| Militia.....                                        | 11,032,749         | 10,952,949         | 9,700,446          | 8,718,881          | 8,773,545            |
| Miscellaneous.....                                  | 5,281,928          | 5,469,723          | 5,037,283          | 5,684,890          | 9,107,012            |
| Naval Service.....                                  | 3,013,396          | 3,597,591          | 3,043,201          | 2,167,328          | 2,171,210            |
| Ocean and river service.....                        | 5,136,332          | 3,638,981          | 3,630,828          | 3,050,185          | 2,589,280            |
| Penitentiaries.....                                 | 2,561,115          | 3,236,816          | 2,736,876          | 2,869,735          | 2,676,506            |
| Pensions.....                                       | 40,406,565         | 45,965,723         | 48,686,389         | 45,078,919         | 43,883,132           |
| Post Office.....                                    | 35,036,629         | 36,292,604         | 34,448,986         | 30,142,827         | 29,202,730           |
| Public Works (collection).....                      | 924,110            | 936,020            | 768,146            | 648,082            | 601,659              |
| Public Works income.....                            | 18,134,359         | 23,763,284         | 16,099,739         | 11,778,684         | 9,666,753            |
| Railways and Canals (collection).....               | 2,459,990          | 2,911,080          | 2,708,898          | 2,516,911          | 2,300,999            |

<sup>1</sup> See footnote 1, Table 2, above.

## 3.—Details of Expenditures, fiscal years ended Mar. 31, 1930-34—concluded.

| Item.                                                                      | 1930.                    | 1931.                       | 1932.                     | 1933.                       | 1934.                       |
|----------------------------------------------------------------------------|--------------------------|-----------------------------|---------------------------|-----------------------------|-----------------------------|
| <b>Consolidated Fund Expenditure—concluded.</b>                            | <b>\$</b>                | <b>\$</b>                   | <b>\$</b>                 | <b>\$</b>                   | <b>\$</b>                   |
| Quarantine.....                                                            | 210,000                  | 208,226                     | 208,656                   | 145,457                     | 125,827                     |
| Railways and Canals, income                                                | 8,680,901                | 11,527,017                  | 10,111,141                | 11,432,929                  | 2,763,206                   |
| Royal Canadian Mounted Police.....                                         | 2,901,817                | 2,954,587                   | 3,239,852                 | 5,539,312                   | 5,284,795                   |
| Scientific institutions.....                                               | 1,133,221                | 1,184,674                   | 947,527                   | 689,287                     | 632,072                     |
| Soldiers' Civil Re-Establishment.....                                      | 8,494,277                | 9,774,357                   | 11,154,426                | 10,066,490                  | 9,123,914                   |
| Soldiers' Land Settlement.....                                             | 1,362,122                | 1,300,328                   | 1,035,475                 | 818,325                     | 810,420                     |
| Steamboat inspection.....                                                  | 140,253                  | 143,764                     | 143,394                   | 121,283                     | 121,224                     |
| Subsidies to provinces.....                                                | 12,496,958               | 17,435,736                  | 13,694,970                | 13,677,384                  | 13,727,565                  |
| Superannuation No. 1.....                                                  | 531,253                  | 490,442                     | 448,276                   | 423,761                     | 401,090                     |
| Superannuation No. 3.....                                                  | 15,930                   | 14,412                      | 12,643                    | 10,178                      | 8,803                       |
| Superannuation No. 4.....                                                  | 631,293                  | 592,846                     | 548,832                   | 511,247                     | 469,882                     |
| Civil Service Widows' Annuities Act, 1927.....                             | 142,708                  | 140,167                     | 134,715                   | 129,343                     | 129,617                     |
| Trade and Commerce.....                                                    | 4,325,616                | 6,003,106                   | 7,359,031                 | 4,124,883                   | 3,705,154                   |
| Weights and measures, etc.....                                             | 568,503                  | 583,076                     | 557,853                   | 512,172                     | 487,260                     |
| Yukon.....                                                                 | 186,874                  | 201,451                     | 179,373                   | 160,530                     | 111,010                     |
| <b>Totals, Ordinary Expenditure.....</b>                                   | <b>357,779,794</b>       | <b>389,558,289</b>          | <b>375,403,344</b>        | <b>358,528,270</b>          | <b>346,648,546</b>          |
| <b>Special Expenditure—</b>                                                |                          |                             |                           |                             |                             |
| War and demobilization.....                                                | 59,702 <sup>1</sup>      | 61,889 <sup>1</sup>         | 75,471 <sup>1</sup>       | 51,500 <sup>1</sup>         | 47,571 <sup>1</sup>         |
| Cost of loan flotations.....                                               | 17,071                   | 193,338                     | 1,350,223                 | 1,639,153                   | 2,549,981                   |
| Other charges.....                                                         | 9,726,949 <sup>2,4</sup> | 16,485,621 <sup>2,4,6</sup> | 54,034,440 <sup>2,6</sup> | 95,093,632 <sup>2,6,7</sup> | 99,136,281 <sup>2,4,7</sup> |
| <b>Totals, Special Expenditure.....</b>                                    | <b>9,803,722</b>         | <b>16,740,848</b>           | <b>55,460,134</b>         | <b>96,784,285</b>           | <b>101,733,833</b>          |
| <b>Capital Expenditure<sup>2</sup>.....</b>                                | <b>22,561,144</b>        | <b>28,222,318</b>           | <b>16,979,788</b>         | <b>8,548,155</b>            | <b>6,490,333</b>            |
| <b>Loans and Advances, Non-Active—</b>                                     |                          |                             |                           |                             |                             |
| Advances to railways (non-active).....                                     | 2,932,653                | -                           | -                         | -                           | -                           |
| Advances to Canadian Government Merchant Marine, Ltd., etc.....            | 2,491,297                | 1,826,940                   | 1,199,285                 | -1,382,503 <sup>8</sup>     | -14,064 <sup>8</sup>        |
| Advances to Harbour Commissioners (non-active) <sup>9</sup> ...            | 2,821,000                | 3,661,000                   | 1,913,000                 | 4,897,314                   | 2,109,837                   |
| Miscellaneous debits and credits re sundry non-active assets accounts..... | -213,364                 | -540                        | -10                       | 64,385,462 <sup>10</sup>    | 1,000,100                   |
| <b>Grand Totals, Expenditure.....</b>                                      | <b>398,176,246</b>       | <b>440,008,855</b>          | <b>450,955,541</b>        | <b>531,760,983</b>          | <b>457,968,585</b>          |

<sup>1</sup> Expenditure on adjustments of war claims, \$94,996 less \$35,294 in 1930, \$110,371 less \$48,482 in 1931, \$91,323 less \$15,852 in 1932, \$54,738 less \$3,238 in 1933 and \$56,135 less \$8,564 in 1934.

<sup>2</sup> Net figure, includes large expenditures on Welland Ship Canal. See p. 748.

<sup>3</sup> Includes \$1,892,591 Government contributions to the Civil Service Superannuation Fund under the Act of 1924 (14-15 Geo. V, c. 69) in 1930, \$2,067,466 in 1931, \$2,228,626 in 1932, \$2,269,936 in 1933 and \$1,985,564 in 1934.

<sup>4</sup> Includes \$6,700,000 Reparations Claims for Compensation in 1930 and \$500,000 in 1931.

<sup>5</sup> Includes \$8,553,535 to cover 30 p.c. reduction of Soldier Land Settlement loans, in accordance with the Act of 1930, also \$4,431,655 on account of Unemployment Relief Act, 1930.

<sup>6</sup> Includes \$38,295,515 on account of Unemployment and Farm Relief Act, 1931, for 1932; \$36,720,935 for 1933; and \$35,898,311 for 1934.

<sup>7</sup> Includes \$53,422,662 in 1933 income deficit of the Canadian National Railways incurred in the calendar year 1932 (exclusive of Eastern Lines); \$58,955,388 in 1934 (including Eastern Lines).

<sup>8</sup> Payments of \$1,241,778 less receipts of \$2,624,281 in 1933 and payments of \$985,936 less transfer of \$1,000,000 in 1934 from insurance fund due to decrease in the number of vessels operated.

<sup>9</sup> Previous to 1933 this item included only the Quebec Harbour Commissioners.

<sup>10</sup> Loans of previous years written down as non-active: Railways \$41,121,216, Harbour Commissioners \$21,817,023, and loan to C.P.R. \$1,447,223.

4.—Principal Items of Dominion Expenditure, 1868-1934 (continued on pp. 892-893).

NOTE.—From 1868 to 1906, inclusive, the fiscal years ended on June 30; after 1906, on Mar. 31.

| Fiscal Year.            | Consolidated Fund. |                                                        |            |               |                                   |                         |              | Total Expenditure Chargeable to Consolidated Fund. <sup>2</sup> |
|-------------------------|--------------------|--------------------------------------------------------|------------|---------------|-----------------------------------|-------------------------|--------------|-----------------------------------------------------------------|
|                         | Interest on Debt.  | Charges of Management, Premium, Discount and Exchange. | Pensions.  | Public Works. | Railways and Canals. <sup>1</sup> | Subsidies to Provinces. | Post Office. |                                                                 |
| 1868.....               | \$ 4,501,568       | \$ 359,190                                             | \$ 56,422  | \$ 126,270    | \$ 581,503                        | \$ 2,753,966            | \$ 616,802   | \$ 13,486,093                                                   |
| 1869.....               | 4,907,014          | 465,657                                                | 50,564     | 65,013        | 641,814                           | 2,604,050               | 787,886      | 14,038,084                                                      |
| 1870.....               | 5,047,054          | 339,999                                                | 53,586     | 120,031       | 743,070                           | 2,588,605               | 808,623      | 14,345,510                                                      |
| 1871.....               | 5,165,304          | 426,655                                                | 52,611     | 597,275       | 752,772                           | 2,624,940               | 815,471      | 15,623,082                                                      |
| 1872.....               | 5,257,231          | 346,413                                                | 62,251     | 849,786       | 913,236                           | 2,930,113               | 929,609      | 17,589,469                                                      |
| 1873.....               | 5,209,206          | 178,644                                                | 49,204     | 1,297,999     | 1,378,164                         | 2,921,400               | 1,067,866    | 19,174,648                                                      |
| 1874.....               | 5,724,436          | 264,685                                                | 56,454     | 1,778,916     | 2,260,820                         | 3,752,757               | 1,387,270    | 23,816,317                                                      |
| 1875.....               | 6,590,790          | 227,201                                                | 63,657     | 1,756,010     | 1,981,893                         | 3,750,962               | 1,520,861    | 23,713,071                                                      |
| 1876.....               | 6,400,902          | 208,149                                                | 110,201    | 1,948,242     | 1,897,283                         | 3,690,355               | 1,622,827    | 24,488,372                                                      |
| 1877.....               | 6,797,227          | 207,875                                                | 112,531    | 1,262,823     | 2,239,346                         | 3,655,851               | 1,705,312    | 23,519,302                                                      |
| 1878.....               | 7,048,884          | 192,087                                                | 105,842    | 997,470       | 2,374,314                         | 3,472,808               | 1,724,939    | 23,503,158                                                      |
| 1879.....               | 7,194,734          | 277,923                                                | 107,795    | 1,013,023     | 2,570,361                         | 3,442,764               | 1,784,424    | 24,455,382                                                      |
| 1880.....               | 7,773,869          | 289,085                                                | 192,889    | 1,046,342     | 2,226,456                         | 3,430,846               | 1,818,271    | 24,850,634                                                      |
| 1881.....               | 7,594,145          | 225,444                                                | 96,389     | 1,108,815     | 2,603,717                         | 3,455,518               | 1,876,658    | 25,502,454                                                      |
| 1882.....               | 7,740,804          | 195,044                                                | 101,197    | 1,342,000     | 2,755,833                         | 3,530,999               | 1,980,567    | 27,067,104                                                      |
| 1883.....               | 7,668,552          | 234,170                                                | 98,446     | 1,765,256     | 3,117,465                         | 3,606,673               | 2,176,089    | 28,730,157                                                      |
| 1884.....               | 7,700,181          | 229,906                                                | 95,543     | 2,908,852     | 3,122,103                         | 3,603,714               | 2,312,965    | 31,077,706                                                      |
| 1885.....               | 9,419,482          | 387,495                                                | 89,879     | 2,302,363     | 3,268,222                         | 3,959,327               | 2,488,315    | 35,037,060                                                      |
| 1886.....               | 10,137,009         | 346,921                                                | 88,319     | 2,046,552     | 3,339,670                         | 4,182,526               | 2,763,186    | 39,011,612                                                      |
| 1887.....               | 9,682,929          | 287,742                                                | 102,109    | 2,133,316     | 3,673,894                         | 4,169,341               | 2,818,907    | 35,657,680                                                      |
| 1888.....               | 9,823,313          | 343,592                                                | 120,334    | 2,162,116     | 4,160,332                         | 4,188,514               | 2,889,729    | 36,713,495                                                      |
| 1889.....               | 10,148,932         | 273,590                                                | 116,030    | 2,299,231     | 4,095,301                         | 4,051,428               | 2,982,321    | 36,917,835                                                      |
| 1890.....               | 9,656,841          | 230,409                                                | 107,391    | 1,972,501     | 4,362,200                         | 3,904,922               | 3,074,470    | 35,994,031                                                      |
| 1891.....               | 9,584,137          | 262,068                                                | 103,850    | 1,937,546     | 4,505,516                         | 3,903,757               | 3,161,676    | 36,343,568                                                      |
| 1892.....               | 9,763,978          | 183,938                                                | 92,457     | 1,627,851     | 4,337,877                         | 3,935,914               | 3,316,120    | 36,765,894                                                      |
| 1893.....               | 9,806,888          | 213,794                                                | 90,309     | 1,827,832     | 3,848,404                         | 3,935,765               | 3,421,203    | 36,814,053                                                      |
| 1894.....               | 10,212,696         | 180,975                                                | 86,927     | 2,033,955     | 3,760,550                         | 4,206,655               | 3,517,261    | 37,582,025                                                      |
| 1895.....               | 10,466,294         | 278,950                                                | 84,349     | 1,742,317     | 3,704,126                         | 4,250,675               | 3,593,647    | 37,938,005                                                      |
| 1896.....               | 10,502,430         | 248,575                                                | 86,080     | 1,299,769     | 3,826,226                         | 4,235,664               | 3,665,011    | 38,949,142                                                      |
| 1897.....               | 10,645,663         | 315,314                                                | 90,882     | 1,463,719     | 3,725,690                         | 4,238,059               | 3,789,478    | 38,349,780                                                      |
| 1898.....               | 10,516,758         | 199,887                                                | 96,187     | 1,701,313     | 4,049,275                         | 4,237,372               | 3,575,412    | 38,832,526                                                      |
| 1899.....               | 10,855,112         | 173,257                                                | 96,129     | 1,902,664     | 4,246,404                         | 4,250,636               | 3,603,799    | 41,903,560                                                      |
| 1900.....               | 10,699,645         | 227,194                                                | 93,453     | 2,289,889     | 5,244,301                         | 4,250,608               | 3,768,015    | 42,975,275                                                      |
| 1901.....               | 10,807,955         | 201,861                                                | 93,551     | 3,386,632     | 6,377,961                         | 4,250,607               | 3,931,446    | 46,866,368                                                      |
| 1902.....               | 10,975,935         | 263,250                                                | 83,305     | 4,221,294     | 6,508,477                         | 4,402,098               | 4,023,637    | 50,759,392                                                      |
| 1903.....               | 11,068,139         | 294,968                                                | 87,925     | 4,065,553     | 7,221,705                         | 4,402,503               | 4,105,178    | 51,691,903                                                      |
| 1904.....               | 11,128,637         | 288,984                                                | 113,426    | 4,607,330     | 8,397,434                         | 4,402,292               | 4,347,541    | 55,612,833                                                      |
| 1905.....               | 10,630,115         | 276,072                                                | 140,424    | 6,765,446     | 9,803,912                         | 4,516,038               | 4,634,528    | 64,319,683                                                      |
| 1906.....               | 10,814,697         | 346,902                                                | 179,023    | 7,484,716     | 8,779,678                         | 6,726,373               | 4,921,577    | 67,240,641                                                      |
| 1907 <sup>3</sup> ..... | 6,712,771          | 244,548                                                | 125,832    | 5,520,571     | 7,011,858                         | 6,745,134               | 3,979,557    | 51,542,161                                                      |
| 1908.....               | 10,973,597         | 383,820                                                | 187,557    | 8,721,327     | 10,586,114                        | 9,032,775               | 6,005,930    | 76,641,452                                                      |
| 1909.....               | 11,604,584         | 356,707                                                | 191,533    | 12,300,184    | 10,780,126                        | 9,117,143               | 6,592,386    | 84,064,232                                                      |
| 1910.....               | 13,098,160         | 358,973                                                | 216,697    | 7,261,218     | 10,215,038                        | 9,361,388               | 7,215,338    | 79,411,747                                                      |
| 1911.....               | 12,535,851         | 376,777                                                | 240,586    | 8,621,431     | 11,123,251                        | 9,092,472               | 7,954,223    | 77,774,198                                                      |
| 1912.....               | 12,259,397         | 455,011                                                | 245,405    | 10,344,487    | 12,330,463                        | 10,281,045              | 9,172,036    | 98,161,441                                                      |
| 1913.....               | 12,605,882         | 502,988                                                | 283,188    | 13,468,505    | 13,766,180                        | 13,211,800              | 10,882,804   | 112,059,537                                                     |
| 1914.....               | 12,893,505         | 487,184                                                | 311,900    | 19,007,513    | 14,935,138                        | 11,280,469              | 12,822,058   | 127,384,473                                                     |
| 1915.....               | 15,736,743         | 554,729                                                | 358,558    | 19,343,532    | 13,876,060                        | 11,451,673              | 15,961,191   | 153,283,207                                                     |
| 1916.....               | 21,421,585         | 731,836                                                | 671,133    | 12,039,252    | 20,777,830                        | 11,451,673              | 16,009,139   | 130,500,727                                                     |
| 1917.....               | 35,802,567         | 496,387                                                | 2,814,546  | 8,633,096     | 27,124,004                        | 11,489,148              | 16,300,579   | 148,599,343                                                     |
| 1918.....               | 47,845,588         | 488,712                                                | 8,155,691  | 7,432,901     | 34,849,068                        | 11,369,148              | 18,046,558   | 178,284,313                                                     |
| 1919.....               | 77,431,432         | 1,305,676                                              | 18,282,440 | 6,295,060     | 45,494,584                        | 11,327,236              | 19,273,758   | 232,731,283                                                     |
| 1920.....               | 107,527,089        | 1,462,558                                              | 26,004,461 | 9,016,246     | 8,418,024                         | 11,490,860              | 20,774,312   | 303,843,930                                                     |
| 1921.....               | 139,551,520        | 1,102,088                                              | 37,420,751 | 10,846,875    | 8,886,458                         | 11,490,860              | 22,696,561   | 361,118,145                                                     |
| 1922.....               | 135,247,849        | 4,109,601                                              | 36,153,031 | 10,574,364    | 8,624,094                         | 12,211,924              | 28,121,425   | 347,560,691                                                     |
| 1923.....               | 137,892,735        | 1,003,068                                              | 32,985,998 | 9,978,440     | 7,691,261                         | 12,207,313              | 27,794,502   | 332,293,732                                                     |
| 1924.....               | 136,237,872        | 993,907                                                | 33,411,081 | 11,900,847    | 2,126,803                         | 12,386,136              | 28,305,941   | 324,813,190                                                     |
| 1925.....               | 134,789,604        | 849,694                                                | 34,888,665 | 12,029,578    | 1,996,152                         | 12,281,391              | 29,873,802   | 318,891,901                                                     |
| 1926.....               | 130,691,493        | 884,388                                                | 37,203,700 | 13,416,045    | 2,120,223                         | 12,375,128              | 30,499,686   | 320,660,479                                                     |
| 1927.....               | 129,675,367        | 977,265                                                | 37,902,936 | 11,178,054    | 2,152,015                         | 12,516,740              | 31,007,698   | 319,548,173                                                     |
| 1928.....               | 128,902,945        | 926,765                                                | 39,778,130 | 14,037,366    | 2,535,361                         | 12,516,740              | 31,782,966   | 336,167,961                                                     |
| 1929.....               | 124,989,950        | 960,617                                                | 41,487,323 | 17,003,254    | 2,405,272                         | 12,553,724              | 33,483,058   | 350,952,924                                                     |
| 1930.....               | 121,566,213        | 1,088,742                                              | 40,406,565 | 18,134,359    | 2,459,990                         | 12,496,958              | 35,036,629   | 357,779,794                                                     |
| 1931.....               | 121,289,844        | 939,613                                                | 45,965,723 | 23,763,284    | 2,911,080                         | 17,435,736              | 36,292,604   | 389,558,289                                                     |
| 1932.....               | 121,151,106        | 4,492,509                                              | 48,686,319 | 16,099,739    | 2,708,898                         | 13,694,970              | 34,448,986   | 375,403,344                                                     |
| 1933.....               | 134,999,069        | 870,760 <sup>4</sup>                                   | 45,078,919 | 11,778,684    | 2,516,981                         | 13,677,384              | 30,142,827   | 358,528,270                                                     |
| 1934.....               | 139,725,417        | 874,633 <sup>5</sup>                                   | 43,883,132 | 9,666,753     | 2,300,999                         | 13,727,565              | 29,202,730   | 346,648,546                                                     |

<sup>1</sup> Expenditure (Collection of Revenue). After 1919 railway receipts were applied directly to railway expenditure; this accounts for the great decline in the figures in 1920 and subsequent years. <sup>2</sup> Includes various non-enumerated items. <sup>3</sup> Nine months. <sup>4</sup> See footnote to Table 2, p. 889.



## 4.—Principal Items of Dominion

| Fiscal Year.      | Capital Expenditures. |                           |                                  |                 |                                                                         |                                         |                           |                                                                              |                                                     |
|-------------------|-----------------------|---------------------------|----------------------------------|-----------------|-------------------------------------------------------------------------|-----------------------------------------|---------------------------|------------------------------------------------------------------------------|-----------------------------------------------------|
|                   | Canals.               | Canadian Pacific Railway. | Debts Allowed to Prov-<br>inces. | Dominion Lands. | Inter-<br>colonial and<br>Connected<br>Railways,<br>Miscel-<br>laneous. | Public<br>Works,<br>Miscel-<br>laneous. | Hudson<br>Bay<br>Railway. | National Trans-<br>continental<br>Railway,<br>Including<br>Quebec<br>Bridge. | Prince<br>Edward<br>Island<br>Railway. <sup>a</sup> |
|                   | \$                    | \$                        | \$                               | \$              | \$                                                                      | \$                                      | \$                        | \$                                                                           | \$                                                  |
| 1868              | 51,498                | -                         | -                                | -               | 455,250                                                                 | 41,690                                  | -                         | -                                                                            | -                                                   |
| 1869              | 130,142               | -                         | -                                | -               | 282,615                                                                 | 8,548                                   | -                         | -                                                                            | -                                                   |
| 1870              | -                     | -                         | -                                | -               | 1,693,229                                                               | -                                       | -                         | -                                                                            | -                                                   |
| 1871              | -                     | 30,148                    | -                                | -               | 2,866,376                                                               | -                                       | -                         | -                                                                            | -                                                   |
| 1872              | 255,646               | 489,428                   | 1,666,200                        | -               | 5,131,141                                                               | 68,746                                  | -                         | -                                                                            | -                                                   |
| 1873              | 256,547               | 561,818                   | 13,859,080                       | -               | 5,019,240                                                               | 99,517                                  | -                         | -                                                                            | -                                                   |
| 1874              | 1,189,592             | 310,225                   | 4,927,061                        | -               | 3,614,899                                                               | 135,963                                 | -                         | -                                                                            | -                                                   |
| 1875              | 1,714,830             | 1,546,242                 | -                                | -               | 3,426,100                                                               | 189,484                                 | -                         | -                                                                            | 46,087                                              |
| 1876              | 2,388,733             | 3,346,567                 | -                                | -               | 1,108,322                                                               | 267,840                                 | -                         | -                                                                            | 42,546                                              |
| 1877              | 4,131,375             | 1,691,150                 | -                                | -               | 1,318,352                                                               | 258,833                                 | -                         | -                                                                            | 200,000                                             |
| 1878              | 3,843,339             | 2,228,373                 | -                                | -               | 408,817                                                                 | 170,120                                 | -                         | -                                                                            | 6,551                                               |
| 1879              | 3,064,099             | 2,240,286                 | -                                | -               | 226,639                                                                 | 77,179                                  | -                         | -                                                                            | 40,129                                              |
| 1880              | 2,123,366             | 4,044,523                 | -                                | -               | 2,048,015                                                               | 8,730                                   | -                         | -                                                                            | 16,540                                              |
| 1881              | 2,077,029             | 4,968,504                 | -                                | 334,681         | 608,733                                                                 | 187,370                                 | -                         | -                                                                            | -                                                   |
| 1882              | 1,647,759             | 4,589,076                 | -                                | 511,882         | 585,569                                                                 | 70,949                                  | -                         | -                                                                            | 402                                                 |
| 1883              | 1,763,002             | 10,033,800                | -                                | 556,870         | 1,616,633                                                               | 119,869                                 | -                         | -                                                                            | 57,186                                              |
| 1884              | 1,577,295             | 11,192,722                | 7,172,298                        | 723,658         | 2,689,690                                                               | 491,376                                 | -                         | -                                                                            | 130,663                                             |
| 1885              | 1,504,621             | 9,900,282                 | 5,420                            | 303,593         | 1,247,006                                                               | 182,306                                 | -                         | -                                                                            | 76,957                                              |
| 1886              | 1,333,325             | 3,672,585                 | 3,113,334                        | 130,653         | 765,967                                                                 | 569,202                                 | -                         | -                                                                            | 4,668                                               |
| 1887              | 1,733,698             | 915,057                   | -                                | 162,392         | 926,030                                                                 | 353,044                                 | -                         | -                                                                            | 5,800                                               |
| 1888              | 1,033,118             | 52,099                    | -                                | 135,048         | 1,713,487                                                               | 963,778                                 | -                         | -                                                                            | -                                                   |
| 1889              | 972,918               | 86,716                    | -                                | 130,684         | 2,623,137                                                               | 675,408                                 | -                         | -                                                                            | -                                                   |
| 1890              | 1,026,364             | 40,981                    | -                                | 133,832         | 2,351,787                                                               | 3,220,926                               | -                         | -                                                                            | -                                                   |
| 1891              | 1,280,725             | 37,367                    | -                                | 94,847          | 1,184,318                                                               | 515,702                                 | -                         | -                                                                            | -                                                   |
| 1892              | 1,463,279             | 66,212                    | -                                | 86,735          | 316,784                                                                 | 224,390                                 | -                         | -                                                                            | 8,300                                               |
| 1893              | 2,069,573             | 413,837                   | -                                | 115,038         | 299,081                                                                 | 181,878                                 | -                         | -                                                                            | -                                                   |
| 1894              | 3,027,164             | 146,540                   | -                                | 149,147         | 439,209                                                                 | 102,059                                 | -                         | -                                                                            | -                                                   |
| 1895              | 2,452,274             | 49,209                    | -                                | 99,842          | 327,605                                                                 | 102,393                                 | -                         | -                                                                            | -                                                   |
| 1896              | 2,258,779             | 65,669                    | -                                | 82,184          | 260,396                                                                 | 114,826                                 | -                         | -                                                                            | -                                                   |
| 1897              | 2,348,637             | 14,054                    | -                                | 91,412          | 190,570                                                                 | 129,238                                 | -                         | -                                                                            | -                                                   |
| 1898              | 3,207,250             | 692                       | -                                | 127,505         | 252,756                                                                 | 364,018                                 | -                         | -                                                                            | 17,542                                              |
| 1899              | 3,899,877             | 8,419                     | 267,026                          | 151,213         | 1,081,930                                                               | 385,094                                 | -                         | -                                                                            | 22,000                                              |
| 1900              | 2,639,565             | 236                       | -                                | 199,470         | 3,255,348                                                               | 1,089,827                               | -                         | -                                                                            | 53,546                                              |
| 1901              | 2,360,570             | 8,979                     | -                                | 269,061         | 3,633,837                                                               | 1,006,983                               | -                         | -                                                                            | 280,174                                             |
| 1902              | 2,114,690             | 449                       | -                                | 370,838         | 4,626,841                                                               | 2,190,125                               | -                         | -                                                                            | 475,998                                             |
| 1903              | 1,833,274             | -                         | -                                | 449,542         | 2,254,267                                                               | 1,268,004                               | -                         | -                                                                            | 829,414                                             |
| 1904              | 1,880,787             | 33,076                    | -                                | 748,855         | 1,879,566                                                               | 1,334,397                               | -                         | 6,249                                                                        | 698,878                                             |
| 1905              | 2,071,594             | -                         | -                                | 794,410         | 4,755,578 <sup>1</sup>                                                  | 1,642,042 <sup>2</sup>                  | -                         | 778,491                                                                      | 591,413                                             |
| 1906              | 1,552,121             | -                         | -                                | 599,780         | 3,765,171                                                               | 2,359,528                               | -                         | 1,541,270                                                                    | 496,125                                             |
| 1907 <sup>3</sup> | 887,839               | -                         | -                                | 526,583         | 1,512,491 <sup>4</sup>                                                  | 1,797,371                               | -                         | 5,537,867                                                                    | 91,210                                              |
| 1908              | 1,723,156             | 600                       | -                                | 768,244         | 4,369,738                                                               | 2,969,049                               | -                         | 18,910,253                                                                   | 390,962                                             |
| 1909              | 1,873,868             | 939                       | -                                | 797,747         | 3,874,480                                                               | 2,832,295                               | 92,428                    | 31,317,132                                                                   | 561,027                                             |
| 1910              | 1,650,707             | -                         | -                                | 785,157         | 1,278,409                                                               | 4,514,606                               | 53,043                    | 19,868,064                                                                   | 206,397                                             |
| 1911              | 2,349,475             | 2,918                     | -                                | -5,508          | 763,833                                                                 | 3,742,717                               | 184,150                   | 23,715,549                                                                   | 94,321                                              |
| 1912              | 2,560,938             | -                         | -                                | -               | 1,710,449                                                               | 4,116,385                               | 159,632                   | 22,264,130                                                                   | 128,042                                             |
| 1913              | 2,259,642             | -                         | -                                | -               | 2,406,9884                                                              | 6,057,515                               | 1,099,063                 | 15,279,837                                                                   | 103,001                                             |
| 1914              | 2,829,661             | -                         | -                                | -               | 4,348,000                                                               | 10,100,017                              | 4,498,717                 | 15,274,206                                                                   | 129,575                                             |
| 1915              | 5,490,796             | -                         | -                                | -               | 6,914,977                                                               | 11,049,030                              | 4,773,744                 | 12,648,242                                                                   | 570,531                                             |
| 1916              | 6,170,953             | -                         | -                                | -               | 7,861,899                                                               | 8,471,229                               | 4,887,131                 | 9,825,265                                                                    | 1,350,473                                           |
| 1917              | 4,304,589             | -                         | -                                | -               | 4,873,032                                                               | 7,838,116                               | 2,604,280                 | 6,650,263                                                                    | 609,752                                             |
| 1918              | 1,781,967             | -                         | -                                | -               | -                                                                       | 6,847,201                               | 1,879,699                 | 103,167                                                                      | -                                                   |
| 1919              | 2,211,964             | -                         | -                                | -               | -                                                                       | 5,705,348                               | 562,558                   | 1,723,638                                                                    | -                                                   |
| 1920              | 4,550,761             | -                         | -                                | -               | 3,285,736                                                               | 38,869,683                              | -235,608                  | 527,480                                                                      | -3,540 <sup>5</sup>                                 |
| 1921              | 5,450,006             | -                         | -                                | -               | 731,018                                                                 | 27,559,809                              | 30,036                    | 20,164                                                                       | -                                                   |
| 1922              | 4,482,610             | -                         | -                                | -               | 9,649                                                                   | 10,431,699                              | 34,770                    | -                                                                            | 97,000                                              |
| 1923              | 4,995,184             | -                         | -                                | -               | 59,950                                                                  | 31,411,510                              | 27,803                    | -                                                                            | -                                                   |
| 1924              | 6,747,395             | -                         | -                                | -               | -                                                                       | 3,804,427                               | 207,872                   | -                                                                            | 196,418                                             |
| 1925              | 10,619,903            | -                         | -                                | -               | -                                                                       | 6,030,320                               | -124,154                  | -                                                                            | -                                                   |
| 1926              | 12,024,456            | -                         | -                                | -               | -                                                                       | 4,805,949                               | -2,484                    | -                                                                            | -                                                   |
| 1927              | 13,845,689            | -                         | -                                | -               | -                                                                       | 2,920,670                               | 2,823,905                 | -                                                                            | -                                                   |
| 1928              | 13,762,905            | 71                        | -                                | -               | -                                                                       | 3,281,097                               | 3,554,503 <sup>7</sup>    | -                                                                            | 63,419 <sup>6</sup>                                 |
| 1929              | 13,164,582            | -                         | -                                | -               | -7,990,740                                                              | 16,818,019                              | 6,159,563                 | -                                                                            | -                                                   |
| 1930              | 9,324,177             | -                         | -                                | -               | -25,856                                                                 | 6,573,530                               | 6,472,214                 | -415                                                                         | -                                                   |
| 1931              | 9,842,011             | -                         | -                                | -               | -277,535                                                                | 12,009,276                              | 4,139,690                 | 8,877                                                                        | -                                                   |
| 1932              | 3,298,951             | -                         | -                                | -               | -2,504                                                                  | 7,438,511                               | 5,236,668                 | -59,185                                                                      | -                                                   |
| 1933              | 3,026,931             | -                         | -                                | -               | -                                                                       | 4,018,420                               | 1,635,395                 | -                                                                            | -                                                   |
| 1934              | 1,975,073             | -                         | -                                | -               | -                                                                       | 3,778,293                               | 737,028                   | -                                                                            | -                                                   |

<sup>1</sup> Including \$2,725,504, for the improvement of the St. Lawrence, spent during the previous years by Montreal Harbour Commission. <sup>2</sup> Including \$17,956, cost of new car for the Governor General. <sup>3</sup> Including \$38,583, cost of new car for the Governor General. <sup>4</sup> Including \$15,000, cost of new car for the Governor General. <sup>5</sup> Includes New Brunswick Railway. <sup>6</sup> Nine months. <sup>7</sup> Includes capital expenditure on Hudson Bay Terminals \$880,278. <sup>8</sup> Included with Canadian Government Railways since the consolidation of the system.



Expenditure, 1868-1934—concluded.

| Capital Expenditures—concluded. |           |                               |                            | Other Expenditures. |                         |                |                          | Fiscal Year.      |
|---------------------------------|-----------|-------------------------------|----------------------------|---------------------|-------------------------|----------------|--------------------------|-------------------|
| North-west Territories.         | Militia.  | Canadian Government Railways. | Total Capital Expenditure. | Railway Subsidies.  | War and Demobilization. | Other Charges. | Total Expenditure.       |                   |
| \$                              | \$        | \$                            | \$                         | \$                  | \$                      | \$             | \$                       |                   |
| 19,113                          | -         | -                             | 548,438                    | -                   | -                       | 37,158         | 14,071,689               | 1868              |
| 1,821,887                       | -         | -                             | 440,418                    | -                   | -                       | 429,663        | 14,908,166               | 1869              |
| 773,872                         | -         | -                             | 3,815,116                  | -                   | -                       | 155,988        | 18,016,614               | 1870              |
| 241,889                         | -         | -                             | 3,670,396                  | -                   | -                       | -              | 19,293,478               | 1871              |
| 63,239                          | -         | -                             | 7,853,050                  | -                   | -                       | 223,456        | 25,665,975               | 1872              |
| -                               | -         | -                             | 19,859,441                 | -                   | -                       | 5,719          | 39,039,808               | 1873              |
| -                               | -         | -                             | 10,177,740                 | -                   | -                       | 4,019          | 33,498,076               | 1874              |
| -                               | -         | -                             | 6,922,743                  | -                   | -                       | 2,253,097      | 32,888,911               | 1875              |
| -                               | -         | -                             | 7,154,008                  | -                   | -                       | 315,764        | 31,958,144               | 1876              |
| -                               | -         | -                             | 7,599,710                  | -                   | -                       | 1,388,984      | 32,507,996               | 1877              |
| -                               | -         | -                             | 6,657,200                  | -                   | -                       | 385,413        | 30,545,772               | 1878              |
| -                               | -         | -                             | 6,648,332                  | -                   | -                       | 676,225        | 30,779,939               | 1879              |
| -                               | -         | -                             | 8,241,174                  | -                   | -                       | 949,948        | 34,041,756               | 1880              |
| -                               | -         | -                             | 8,176,317                  | -                   | -                       | 117,772        | 33,796,643               | 1881              |
| -                               | -         | -                             | 7,405,637                  | -                   | -                       | 201,885        | 34,674,625               | 1882              |
| -                               | -         | -                             | 14,147,360                 | -                   | -                       | 21,369         | 42,898,886               | 1883              |
| -                               | -         | -                             | 23,977,702                 | 208,000             | -                       | 2,567,453      | 57,860,862               | 1884              |
| -                               | -         | -                             | 13,220,185                 | 403,245             | -                       | 502,587        | 49,163,078               | 1885              |
| 293,918                         | -         | -                             | 9,589,734                  | 2,701,249           | -                       | 10,534,973     | 61,837,569               | 1886              |
| 539,930                         | -         | -                             | 4,439,939                  | 1,406,533           | -                       | -              | 41,504,152               | 1887              |
| 31,448                          | -         | -                             | 4,437,460                  | 1,027,042           | -                       | 155,623        | 45,064,124               | 1888              |
| 4,773                           | -         | -                             | 4,420,313                  | 846,722             | -                       | 1,333,328      | 43,518,198               | 1889              |
| 2,901                           | -         | -                             | 6,778,663 <sup>1</sup>     | 1,678,196           | -                       | 44,947         | 41,770,333               | 1890              |
| -1,243                          | -         | -                             | 3,115,860                  | 1,265,706           | -                       | 68,074         | 40,793,208               | 1891              |
| 8,911                           | -         | -                             | 2,164,457                  | 1,248,216           | -                       | 2,093,569      | 42,272,136               | 1892              |
| -1,149                          | -         | -                             | 3,088,318                  | 811,394             | -                       | 139,963        | 40,853,728               | 1893              |
| -833                            | -         | -                             | 3,862,970                  | 1,229,885           | -                       | 330,354        | 43,008,234               | 1894              |
| -543                            | 1,000,000 | -                             | 3,030,490                  | 1,310,549           | -                       | 399,294        | 42,872,338               | 1895              |
| 3,284                           | 745,965   | -                             | 3,781,311                  | 3,228,746           | -                       | 137,185        | 44,096,384               | 1896              |
| -1,272                          | 173,740   | -                             | 3,523,160                  | 416,955             | -                       | 682,881        | 42,972,756               | 1897              |
| -1,853                          | 387,810   | -                             | 4,142,231                  | 1,414,935           | -                       | 944,589        | 45,334,281               | 1898              |
| -1,473                          | 230,851   | -                             | 6,201,516                  | 3,201,220           | -                       | 236,399        | 51,542,635               | 1899              |
| -1,632                          | 135,885   | -                             | 7,467,370                  | 725,720             | -                       | 1,549,098      | 52,717,467               | 1900              |
| -1,543                          | 299,697   | -                             | 7,693,857                  | 2,512,329           | -                       | 900,312        | 57,982,866               | 1901              |
| -3,040                          | 428,223   | -                             | 10,077,095                 | 2,093,939           | -                       | 1,040,374      | 63,970,800               | 1902              |
| -2,616                          | 1,299,910 | -                             | 7,049,684                  | 1,463,222           | -                       | 1,541,763      | 61,746,572               | 1903              |
| -2,478                          | 1,299,964 | -                             | 7,879,102                  | 2,046,878           | -                       | 6,716,235      | 72,255,048               | 1904              |
| -1,767                          | 1,299,876 | -                             | 11,931,014                 | 1,275,630           | -                       | 2,277,812      | 78,804,139               | 1905              |
| -1,352                          | 975,283   | -                             | 11,912,104                 | 1,637,574           | -                       | 2,487,323      | 83,277,462               | 1906              |
| -911                            | 1,297,905 | -                             | 11,327,792                 | 1,324,889           | -                       | 1,583,297      | 85,778,138               | 1907 <sup>2</sup> |
| -1,045                          | 1,243,072 | -                             | 30,428,996                 | 2,037,629           | -                       | 3,470,603      | 112,578,680              | 1908              |
| -650                            | 1,299,970 | -                             | 42,592,122                 | 1,785,887           | -                       | 4,999,283      | 133,441,524              | 1909              |
| -33,668                         | -         | -                             | 29,655,703                 | 2,043,097           | -                       | 4,280,227      | 115,395,774              | 1910              |
| -                               | -         | -                             | 30,813,787                 | 1,284,892           | -                       | 2,988,393      | 122,861,250              | 1911              |
| -                               | -         | -                             | 30,939,576                 | 859,400             | -                       | 7,181,665      | 137,142,082              | 1912              |
| -                               | -         | -                             | 27,206,046                 | 4,935,807           | -                       | 265,787        | 144,456,878              | 1913              |
| -                               | -         | -                             | 37,180,176                 | 19,036,237          | -                       | 2,640,162      | 186,241,048              | 1914              |
| -                               | -         | -                             | 41,447,320                 | 5,191,507           | 60,750,476              | 5,186,016      | 248,098,526              | 1915              |
| -                               | -         | -                             | 38,566,950                 | 1,400,171           | 166,197,756             | 3,186,898      | 339,702,502              | 1916              |
| -                               | -         | -                             | 26,880,032                 | 959,584             | 306,498,815             | 15,275,345     | 498,203,118              | 1917              |
| 32,999,880                      | -         | -                             | 43,111,904                 | 720,405             | 343,836,802             | 10,706,787     | 576,660,210              | 1918              |
| 14,827,758                      | -         | -                             | 25,031,266                 | 43,805              | 446,519,440             | -7,283,582     | 697,042,212              | 1919              |
| 22,307,366                      | -         | -                             | 69,301,878                 | 334,845             | 346,612,955             | 19,995,313     | 786,030,611 <sup>3</sup> | 1920              |
| 6,221,774                       | -         | -                             | 40,012,807                 | -                   | 492,048                 | 301,518        | 528,302,513 <sup>3</sup> | 1921              |
| 1,239,605                       | -         | -                             | 16,295,333                 | -                   | 1,844,250               | 4,042,931      | 463,528,389 <sup>3</sup> | 1922              |
| 1,313,022                       | -         | -                             | 9,807,124                  | -                   | 4,464,760               | 7,902,759      | 370,589,247 <sup>3</sup> | 1923              |
| -94,835                         | -         | -                             | 10,861,277                 | -1,523              | 446,083                 | 3,953,433      | 351,169,803 <sup>3</sup> | 1924              |
| -24,442                         | -         | -                             | 16,550,511                 | -                   | 506,931                 | 6,330,092      | 355,186,423 <sup>3</sup> | 1925              |
| -29,372                         | -         | -                             | 16,798,549                 | -                   | 191,392                 | 7,814,977      | 358,556,751 <sup>3</sup> | 1926              |
| -31,562                         | -         | -                             | 19,558,703                 | -                   | 64,485                  | 1,705,311      | 378,658,440 <sup>3</sup> | 1927              |
| -26,347                         | -         | -                             | 20,635,648                 | -                   | 1,656,011               | 2,067,153      | 388,805,953 <sup>3</sup> | 1928              |
| -5,342,149                      | -         | -                             | 22,809,275                 | -                   | -669,399                | 9,744,021      | 398,176,246 <sup>3</sup> | 1929              |
| 217,494                         | -         | -                             | 22,561,144                 | -                   | 59,702                  | 16,678,959     | 440,008,855 <sup>3</sup> | 1930              |
| 2,500,000                       | -         | -                             | 28,222,318                 | -                   | 61,889                  | 55,384,663     | 450,955,541 <sup>3</sup> | 1931              |
| 1,067,348                       | -         | -                             | 16,979,788                 | -                   | 75,471                  | 96,732,786     | 531,760,983 <sup>3</sup> | 1932              |
| -132,592                        | -         | -                             | 8,548,155                  | -                   | 51,499                  | 101,686,262    | 457,968,585 <sup>3</sup> | 1933              |
| -                               | -         | -                             | 6,490,333 <sup>4</sup>     | -                   | 47,571                  | -              | -                        | 1934              |

<sup>1</sup> Includes advances to railways (non-active), amounting to \$45,780,690 in 1920, \$109,662,655 in 1921, \$97,950,645 in 1922, \$77,863,938 in 1923, \$23,710,617 in 1924, \$9,334,453 in 1925, \$10,000,000 in 1926, \$10,000,000 in 1927, \$2,932,653 in 1930; together with advances of \$5,979,856 in 1923, \$1,500,000 in 1924, \$900,000 in 1925, \$668,000 in 1926, \$426,817 in 1927, \$999,837 in 1928, \$758,000 in 1929, \$2,491,297 in 1930, \$1,826,942 in 1931, and \$1,199,286 in 1932, advances less receipts of —\$1,382,503 in 1933 and of —\$14,064 in 1934 to the Canadian Government Merchant Marine, etc.; also other advances shown at the end of Table 3 on p. 890.

## 5.—Principal Items of Receipts (Consolidated Fund) and Total Receipts, 1868-1934.

| Fiscal Year. | Customs Duties. | Excise Duties. | War Tax Revenue. <sup>1</sup> | Total Revenue from Taxation. | Interest on Investments. | Post Office and Money Orders. | Total Revenue Receipts. <sup>2</sup> |
|--------------|-----------------|----------------|-------------------------------|------------------------------|--------------------------|-------------------------------|--------------------------------------|
|              | \$              | \$             | \$                            | \$                           | \$                       | \$                            | \$                                   |
| 1868.....    | 8,578,380       | 3,002,588      | -                             | 11,700,681                   | 174,073                  | 525,692                       | 13,687,928                           |
| 1869.....    | 8,272,880       | 2,710,028      | -                             | 11,112,573                   | 824,424                  | 535,315                       | 14,379,175                           |
| 1870.....    | 9,334,213       | 3,619,623      | -                             | 13,087,882                   | 383,956                  | 573,566                       | 15,512,226                           |
| 1871.....    | 11,841,105      | 4,295,945      | -                             | 16,320,369                   | 554,384                  | 612,631                       | 19,335,561                           |
| 1872.....    | 12,787,982      | 4,735,652      | -                             | 17,713,552                   | 488,042                  | 692,375                       | 20,714,814                           |
| 1873.....    | 12,954,164      | 4,460,682      | -                             | 17,616,555                   | 396,404                  | 833,657                       | 20,813,469                           |
| 1874.....    | 14,325,193      | 5,594,044      | -                             | 20,129,185                   | 610,863                  | 1,139,973                     | 24,205,093                           |
| 1875.....    | 15,351,012      | 5,069,687      | -                             | 20,664,879                   | 840,887                  | 1,155,332                     | 24,648,715                           |
| 1876.....    | 12,823,838      | 5,563,487      | -                             | 18,614,415                   | 798,906                  | 1,102,540                     | 22,587,587                           |
| 1877.....    | 12,546,988      | 4,941,898      | -                             | 17,697,926                   | 717,684                  | 1,114,946                     | 22,059,274                           |
| 1878.....    | 12,782,824      | 4,858,672      | -                             | 17,841,938                   | 791,758                  | 1,207,790                     | 22,357,011                           |
| 1879.....    | 12,900,659      | 5,390,763      | -                             | 18,476,613                   | 592,500                  | 1,172,418                     | 22,517,382                           |
| 1880.....    | 14,071,343      | 4,232,428      | -                             | 18,479,877                   | 834,793                  | 1,252,498                     | 23,307,407                           |
| 1881.....    | 18,406,092      | 5,343,022      | -                             | 23,942,139                   | 761,513                  | 1,352,110                     | 29,635,298                           |
| 1882.....    | 21,581,570      | 5,884,860      | -                             | 27,849,047                   | 914,009                  | 1,887,888                     | 33,383,456                           |
| 1883.....    | 23,009,582      | 6,260,117      | -                             | 29,269,699                   | 1,001,193                | 1,800,391                     | 35,794,650                           |
| 1884.....    | 20,023,890      | 5,459,309      | -                             | 25,483,199                   | 986,698                  | 1,755,674                     | 31,861,962                           |
| 1885.....    | 18,935,428      | 6,449,101      | -                             | 25,384,529                   | 1,997,035                | 1,841,372                     | 32,797,001                           |
| 1886.....    | 19,362,308      | 5,852,905      | -                             | 25,215,213                   | 2,299,079                | 1,901,690                     | 33,177,040                           |
| 1887.....    | 22,373,951      | 6,308,201      | -                             | 28,682,152                   | 990,887                  | 2,020,624                     | 35,754,993                           |
| 1888.....    | 22,091,682      | 6,071,487      | -                             | 28,163,169                   | 932,025                  | 2,379,242                     | 35,908,464                           |
| 1889.....    | 23,699,413      | 6,886,739      | -                             | 30,586,152                   | 1,305,392                | 2,220,504                     | 38,782,870                           |
| 1890.....    | 23,913,546      | 7,618,118      | -                             | 31,531,664                   | 1,082,271                | 2,357,389                     | 39,879,925                           |
| 1891.....    | 23,305,218      | 6,914,850      | -                             | 30,220,068                   | 1,077,228                | 2,515,823                     | 38,579,311                           |
| 1892.....    | 20,361,382      | 7,945,098      | -                             | 28,306,480                   | 1,086,420                | 2,562,746                     | 36,921,872                           |
| 1893.....    | 20,910,632      | 8,367,364      | -                             | 29,278,026                   | 1,150,167                | 2,773,508                     | 38,168,609                           |
| 1894.....    | 19,119,030      | 8,381,089      | -                             | 27,500,119                   | 1,217,809                | 2,809,341                     | 36,794,693                           |
| 1895.....    | 17,585,741      | 7,805,733      | -                             | 25,391,474                   | 1,336,047                | 2,792,790                     | 33,978,129                           |
| 1896.....    | 19,766,741      | 7,926,006      | -                             | 27,692,747                   | 1,370,001                | 2,964,014                     | 36,618,991                           |
| 1897.....    | 19,386,278      | 9,170,379      | -                             | 28,556,657                   | 1,443,004                | 3,202,938                     | 37,829,778                           |
| 1898.....    | 21,622,789      | 7,871,563      | -                             | 29,494,352                   | 1,513,455                | 3,527,810                     | 40,555,238                           |
| 1899.....    | 25,160,745      | 9,641,227      | -                             | 34,791,972                   | 1,590,448                | 3,193,778                     | 46,741,249                           |
| 1900.....    | 28,219,498      | 9,868,075      | -                             | 38,087,533                   | 1,683,051                | 3,205,535                     | 51,029,994                           |
| 1901.....    | 28,293,930      | 10,318,266     | -                             | 38,612,196                   | 1,784,834                | 3,441,505                     | 52,514,701                           |
| 1902.....    | 31,916,394      | 11,197,134     | -                             | 43,113,528                   | 1,892,224                | 3,918,416                     | 58,050,790                           |
| 1903.....    | 36,738,033      | 12,013,779     | -                             | 48,751,812                   | 2,020,953                | 4,397,833                     | 66,037,069                           |
| 1904.....    | 40,461,591      | 12,958,708     | -                             | 53,420,299                   | 2,236,256                | 4,652,325                     | 70,669,817                           |
| 1905.....    | 41,437,569      | 12,586,475     | -                             | 54,020,124                   | 2,105,031                | 5,125,373                     | 71,182,773                           |
| 1906.....    | 46,053,377      | 14,010,220     | -                             | 60,063,597                   | 2,140,312                | 5,933,343                     | 80,139,360                           |
| 1907.....    | 39,717,079      | 11,805,413     | -                             | 51,522,492                   | 1,235,746                | 5,061,728                     | 67,069,328                           |
| 1908.....    | 57,200,276      | 15,782,152     | -                             | 72,982,428                   | 1,925,569                | 7,107,887                     | 96,054,506                           |
| 1909.....    | 47,088,444      | 14,937,768     | -                             | 62,026,212                   | 2,256,643                | 7,401,624                     | 85,093,404                           |
| 1910.....    | 59,767,681      | 15,253,353     | -                             | 75,021,034                   | 2,807,465                | 7,958,548                     | 101,503,711                          |
| 1911.....    | 71,838,089      | 16,869,837     | -                             | 88,707,926                   | 1,668,773                | 9,146,952                     | 117,780,409                          |
| 1912.....    | 85,051,872      | 19,261,662     | -                             | 104,313,534                  | 1,281,317                | 10,492,934                    | 136,108,217                          |
| 1913.....    | 111,764,699     | 21,447,445     | -                             | 133,212,144                  | 1,430,511                | 12,051,729                    | 168,689,903                          |
| 1914.....    | 104,691,238     | 21,452,037     | -                             | 126,143,275                  | 1,064,541                | 12,954,530                    | 163,174,395                          |
| 1915.....    | 75,941,220      | 21,479,731     | 98,057                        | 97,519,008                   | 2,980,247                | 13,046,665                    | 133,073,482                          |
| 1916.....    | 98,649,409      | 22,428,492     | 3,620,782                     | 124,666,969                  | 3,358,210                | 18,858,690                    | 172,147,838                          |
| 1917.....    | 134,043,842     | 24,412,348     | 16,302,238                    | 174,758,428                  | 3,094,012                | 20,902,384                    | 232,701,294                          |
| 1918.....    | 144,172,630     | 27,168,445     | 25,379,901                    | 196,720,976                  | 4,466,724                | 21,345,394                    | 260,778,953                          |
| 1919.....    | 147,169,188     | 30,342,034     | 56,177,508                    | 233,688,730                  | 7,421,002                | 21,603,542                    | 312,946,781                          |
| 1920.....    | 168,796,823     | 42,098,083     | 82,079,801                    | 293,574,707                  | 17,086,981               | 24,471,709                    | 349,746,335                          |
| 1921.....    | 163,266,804     | 37,118,367     | 168,385,327                   | 368,770,498                  | 24,815,246               | 26,706,198                    | 436,292,185 <sup>4</sup>             |
| 1922.....    | 105,086,646     | 36,755,207     | 177,484,161                   | 319,326,013                  | 21,961,513               | 26,402,299                    | 382,271,571 <sup>4</sup>             |
| 1923.....    | 118,056,469     | 35,761,997     | 181,634,876                   | 335,483,341                  | 16,465,303               | 29,016,771                    | 403,094,210 <sup>4</sup>             |
| 1924.....    | 121,800,799     | 38,181,747     | 182,036,261                   | 341,718,807                  | 11,916,479               | 28,865,374                    | 406,582,840 <sup>4</sup>             |
| 1925.....    | 108,146,871     | 38,003,489     | 147,164,158                   | 293,014,518                  | 11,332,328               | 28,782,535                    | 351,515,392 <sup>4</sup>             |
| 1926.....    | 127,355,144     | 42,923,549     | 157,296,320                   | 327,575,013                  | 8,535,086                | 30,334,575                    | 382,893,009 <sup>4</sup>             |
| 1927.....    | 141,908,678     | 48,513,100     | 156,167,434                   | 346,049,272                  | 8,559,401                | 29,069,169                    | 400,452,480 <sup>4</sup>             |
| 1928.....    | 156,985,418     | 57,400,898     | 150,319,087                   | 364,705,803                  | 10,937,822               | 31,562,580                    | 429,642,577 <sup>4</sup>             |
| 1929.....    | 187,206,332     | 63,684,954     | 145,029,742                   | 395,921,028                  | 12,227,562               | 30,611,964                    | 460,551,481 <sup>4</sup>             |
| 1930.....    | 179,429,920     | 65,034,701     | 134,086,005                   | 378,551,626                  | 13,518,205               | 33,345,385                    | 445,416,992 <sup>4</sup>             |
| 1931.....    | 131,208,955     | 57,746,808     | 107,320,633                   | 296,276,396                  | 10,421,224               | 30,212,326                    | 356,160,876 <sup>4</sup>             |
| 1932.....    | 104,132,677     | 48,654,862     | 122,266,064                   | 275,053,603                  | 9,330,125                | 32,234,936                    | 336,721,305 <sup>4</sup>             |
| 1933.....    | 70,072,932      | 37,833,858     | 146,412,011                   | 254,318,801                  | 11,220,989               | 30,928,317                    | 311,126,292 <sup>4</sup>             |
| 1934.....    | 66,303,356      | 35,494,220     | 170,051,973                   | 271,851,549                  | 11,148,231               | 30,893,157                    | 324,471,271 <sup>4</sup>             |

<sup>1</sup> For detailed statement see Table 8, p. 897.<sup>2</sup> Includes various smaller items of revenue receipts.

<sup>3</sup> Nine months. <sup>4</sup> Inclusive of special receipts of \$1,905,648 in 1921, \$319,184 in 1922, \$8,479,310 in 1923, \$9,743,636 in 1924, \$4,680,913 in 1925, \$2,147,503 in 1926, \$1,756,704 in 1927, \$6,924,594 in 1928, \$4,687,607 in 1929, \$4,505,185 in 1930, \$6,573,577 in 1931, \$7,012,249 in 1932, \$4,489,339 in 1933, and \$409,271 in 1934. See Table 2, pp. 888-889.

**6.—Per Capita Figures of Taxation, Total Revenue Receipts, Expenditure on Consolidated Fund Account and Total Expenditure, 1868-1934.**

NOTE.—The years marked with an asterisk (\*) are those of the censuses, April 2, 1871; April 4, 1881; April 6, 1891; April 1, 1901; June 1, 1911, 1921 and 1931. For the intercensal years the populations are estimated as at June 1 (see p. 164 for estimates of population). The fiscal period of 1907 is nine months ended Mar. 31. See the tables on pp. 891-894 for the figures of revenue and expenditure on which this table is based.

| Fiscal Year. | Per Capita Revenue from Taxation. | Per Capita Total Revenue Receipts. | Per Capita Expenditure on Consolidated Fund Acct. | Per Capita Total Disbursements. | Fiscal Year. | Per Capita Revenue from Taxation. | Per Capita Total Revenue Receipts. | Per Capita Expenditure on Consolidated Fund Acct. | Per Capita Total Disbursements. |
|--------------|-----------------------------------|------------------------------------|---------------------------------------------------|---------------------------------|--------------|-----------------------------------|------------------------------------|---------------------------------------------------|---------------------------------|
| 1868.....    | \$ 3.33                           | \$ 3.90                            | \$ 3.84                                           | \$ 4.01                         | 1903.....    | \$ 8.63                           | \$ 11.69                           | \$ 9.15                                           | \$ 10.93                        |
| 1869.....    | 3.12                              | 4.03                               | 3.94                                              | 4.18                            | 1904.....    | 9.17                              | 12.13                              | 9.54                                              | 12.40                           |
| 1870.....    | 3.61                              | 4.28                               | 3.96                                              | 4.97                            | 1905.....    | 9.00                              | 11.86                              | 10.72                                             | 13.13                           |
| 1871*.....   | 4.42                              | 5.24                               | 4.24                                              | 5.23                            | 1906.....    | 9.69                              | 12.93                              | 10.85                                             | 13.44                           |
| 1872.....    | 4.72                              | 5.52                               | 4.69                                              | 6.84                            | 1907.....    | 8.31                              | 10.97                              | 8.32                                              | 10.61                           |
| 1873.....    | 4.60                              | 5.44                               | 5.01                                              | 10.20                           | 1908.....    | 11.02                             | 14.50                              | 11.57                                             | 16.99                           |
| 1874.....    | 5.17                              | 6.21                               | 5.99                                              | 8.60                            | 1909.....    | 9.12                              | 12.51                              | 12.36                                             | 19.62                           |
| 1875.....    | 5.23                              | 6.23                               | 6.00                                              | 8.32                            | 1910.....    | 10.74                             | 14.53                              | 11.36                                             | 16.51                           |
| 1876.....    | 4.64                              | 5.63                               | 6.11                                              | 7.97                            | 1911*.....   | 12.31                             | 16.34                              | 12.18                                             | 17.04                           |
| 1877.....    | 4.35                              | 5.43                               | 5.79                                              | 8.00                            | 1912.....    | 14.12                             | 18.42                              | 13.28                                             | 18.56                           |
| 1878.....    | 4.33                              | 5.43                               | 5.70                                              | 7.41                            | 1913.....    | 17.45                             | 22.10                              | 14.68                                             | 18.93                           |
| 1879.....    | 4.41                              | 5.38                               | 5.84                                              | 7.35                            | 1914.....    | 16.01                             | 20.71                              | 16.17                                             | 23.64                           |
| 1880.....    | 4.34                              | 5.48                               | 5.84                                              | 8.00                            | 1915.....    | 12.22                             | 16.67                              | 16.98                                             | 31.09                           |
| 1881*.....   | 5.54                              | 6.85                               | 5.90                                              | 7.82                            | 1916.....    | 15.58                             | 21.52                              | 16.29                                             | 42.46                           |
| 1882.....    | 6.30                              | 7.63                               | 6.19                                              | 7.93                            | 1917.....    | 21.68                             | 28.87                              | 18.44                                             | 61.81                           |
| 1883.....    | 6.61                              | 8.08                               | 6.49                                              | 9.68                            | 1918.....    | 24.14                             | 32.00                              | 21.88                                             | 70.77                           |
| 1884.....    | 5.68                              | 7.10                               | 6.93                                              | 12.90                           | 1919.....    | 28.12                             | 37.65                              | 28.00                                             | 83.87                           |
| 1885.....    | 5.60                              | 7.23                               | 7.72                                              | 10.84                           | 1920.....    | 34.31                             | 40.88                              | 35.51                                             | 91.87                           |
| 1886.....    | 5.56                              | 7.31                               | 8.60                                              | 13.63                           | 1921*.....   | 41.96                             | 49.64                              | 41.09                                             | 60.11                           |
| 1887.....    | 6.20                              | 7.73                               | 7.71                                              | 8.97                            | 1922.....    | 35.87                             | 42.86                              | 38.97                                             | 51.97                           |
| 1888.....    | 6.02                              | 7.68                               | 7.85                                              | 9.63                            | 1923.....    | 37.24                             | 44.74                              | 36.88                                             | 48.26                           |
| 1889.....    | 6.47                              | 8.20                               | 7.81                                              | 9.20                            | 1924.....    | 37.38                             | 44.47                              | 35.53                                             | 40.63                           |
| 1890.....    | 6.60                              | 8.34                               | 7.63                                              | 8.74                            | 1925.....    | 31.63                             | 37.83                              | 34.32                                             | 37.78                           |
| 1891*.....   | 6.25                              | 7.98                               | 7.62                                              | 8.44                            | 1926.....    | 34.66                             | 40.62                              | 33.93                                             | 37.59                           |
| 1892.....    | 5.80                              | 7.56                               | 7.63                                              | 8.66                            | 1927.....    | 35.98                             | 41.56                              | 33.17                                             | 37.21                           |
| 1893.....    | 5.94                              | 7.74                               | 7.47                                              | 8.29                            | 1928.....    | 37.09                             | 43.69                              | 34.19                                             | 38.51                           |
| 1894.....    | 5.52                              | 7.31                               | 7.55                                              | 8.64                            | 1929.....    | 39.49                             | 45.89                              | 35.00                                             | 38.78                           |
| 1895.....    | 5.05                              | 6.76                               | 7.59                                              | 8.53                            | 1930.....    | 37.09                             | 43.69                              | 35.06                                             | 39.01                           |
| 1896.....    | 5.46                              | 7.22                               | 7.52                                              | 8.69                            | 1931*.....   | 28.55                             | 34.32                              | 37.55                                             | 42.41                           |
| 1897.....    | 6.58                              | 7.39                               | 7.49                                              | 8.40                            | 1932.....    | 26.18                             | 32.05                              | 35.73                                             | 42.92                           |
| 1898.....    | 5.70                              | 7.84                               | 7.50                                              | 8.76                            | 1933.....    | 23.81                             | 29.13                              | 33.57                                             | 49.79                           |
| 1899.....    | 6.65                              | 8.93                               | 8.00                                              | 9.85                            | 1934.....    | 25.09                             | 29.95                              | 31.99                                             | 42.27                           |
| 1900.....    | 7.18                              | 9.63                               | 8.11                                              | 9.94                            |              |                                   |                                    |                                                   |                                 |
| 1901*.....   | 7.19                              | 9.78                               | 8.72                                              | 10.76                           |              |                                   |                                    |                                                   |                                 |
| 1902.....    | 7.85                              | 10.57                              | 9.24                                              | 11.64                           |              |                                   |                                    |                                                   |                                 |

**7.—Per Capita Revenue Receipts and Expenditure, by Principal Items, 1928-34.**

REVENUE RECEIPTS.

NOTE.—See Table 2 on pp. 888-889 for the figures on which this table is based.

| Item of Receipts.                                       | 1928.        | 1929.        | 1930.        | 1931.        | 1932.        | 1933.        | 1934.        |
|---------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Consolidated Fund Receipts—</b>                      | <b>\$</b>    | <b>\$</b>    | <b>\$</b>    | <b>\$</b>    | <b>\$</b>    | <b>\$</b>    | <b>\$</b>    |
| <b>TAXATION—</b>                                        |              |              |              |              |              |              |              |
| Customs.....                                            | 15.96        | 13.67        | 17.59        | 12.65        | 9.92         | 6.56         | 6.12         |
| Excise.....                                             | 5.84         | 6.35         | 6.37         | 5.56         | 4.63         | 3.54         | 3.27         |
| War Tax Revenue—                                        |              |              |              |              |              |              |              |
| Banks.....                                              | 0.12         | 0.12         | 0.14         | 0.14         | 0.13         | 0.12         | 0.12         |
| Trust and loan companies.....                           | 0.04         | —            | —            | —            | —            | —            | —            |
| Insurance companies.....                                | 0.10         | 0.09         | —            | —            | —            | 0.08         | 0.07         |
| Business profits.....                                   | 0.10         | 0.05         | 0.01         | —            | —            | —            | —            |
| Income tax.....                                         | 5.75         | 5.92         | 6.76         | 6.85         | 5.83         | 5.81         | 5.67         |
| Sales tax, tax on cheques, transportation tax, etc..... | 9.18         | 8.29         | 6.22         | 3.35         | 5.67         | 7.70         | 9.84         |
| <b>Totals from Taxation.....</b>                        | <b>37.09</b> | <b>39.49</b> | <b>37.09</b> | <b>28.55</b> | <b>26.18</b> | <b>23.81</b> | <b>25.09</b> |



### 7.—Per Capita Revenue Receipts and Expenditure, by Principal Items, 1928-34—concluded.

#### REVENUE RECEIPTS—concluded.

| Item of Receipts.                          | 1928.        | 1929.        | 1930.        | 1931.        | 1932.        | 1933.        | 1934.        |
|--------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                            | \$           | \$           | \$           | \$           | \$           | \$           | \$           |
| <b>Non-Tax Revenue—</b>                    |              |              |              |              |              |              |              |
| Interest on investments.                   | 1.11         | 1.22         | 1.32         | 1.00         | 0.89         | 1.05         | 1.03         |
| Post Office.                               | 3.21         | 3.05         | 3.27         | 2.91         | 3.07         | 2.90         | 2.85         |
| Other revenue.                             | 1.58         | 1.66         | 1.57         | 1.23         | 1.24         | 0.95         | 0.94         |
| <b>Totals, Consolidated Fund Receipts.</b> | <b>42.99</b> | <b>45.42</b> | <b>43.25</b> | <b>33.69</b> | <b>31.38</b> | <b>28.71</b> | <b>29.91</b> |
| Special receipts.                          | 0.70         | 0.47         | 0.44         | 0.63         | 0.67         | 0.42         | 0.04         |
| <b>Grand Totals, Receipts.</b>             | <b>43.69</b> | <b>45.89</b> | <b>43.69</b> | <b>34.32</b> | <b>32.05</b> | <b>29.13</b> | <b>29.95</b> |

#### EXPENDITURE.

NOTE.—See Table 3 on pp. 889-890 for the figures on which this table is based.

| Item of Expenditure.                                 | 1928.        | 1929.        | 1930.        | 1931.        | 1932.        | 1933.        | 1934.        |
|------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                                      | \$           | \$           | \$           | \$           | \$           | \$           | \$           |
| Agriculture.                                         | 0.66         | 0.72         | 0.91         | 0.88         | 0.88         | 0.67         | 0.57         |
| Charges on debt.                                     | 13.20        | 12.56        | 12.02        | 11.78        | 11.96        | 12.72        | 12.98        |
| Civil government.                                    | 1.18         | 1.18         | 1.20         | 1.22         | 1.15         | 1.01         | 0.86         |
| National Revenue.                                    | 1.10         | 1.28         | 1.29         | 1.27         | 1.25         | 0.92         | 0.87         |
| Dominion Lands.                                      | 0.42         | 0.50         | 0.54         | 0.48         | 0.25         | 0.19         | 0.14         |
| Immigration.                                         | 0.28         | 0.26         | 0.27         | 0.22         | 0.18         | 0.13         | 0.11         |
| Indians.                                             | 0.43         | 0.46         | 0.50         | 0.57         | 0.46         | 0.41         | 0.39         |
| Legislation.                                         | 0.21         | 0.23         | 0.23         | 0.45         | 0.28         | 0.30         | 0.29         |
| National Defence (Military, Naval and Air Services). | 1.60         | 1.79         | 1.96         | 2.09         | 1.60         | 1.18         | 1.16         |
| Pensions.                                            | 4.05         | 4.14         | 3.96         | 4.43         | 4.63         | 4.22         | 4.05         |
| Post Office.                                         | 3.23         | 3.34         | 3.43         | 3.50         | 3.28         | 2.82         | 2.70         |
| Public Works, income.                                | 1.43         | 1.70         | 1.78         | 2.29         | 1.53         | 1.10         | 0.89         |
| R.C.M. Police.                                       | 0.23         | 0.26         | 0.28         | 0.28         | 0.31         | 0.52         | 0.49         |
| Soldiers' Civil Re-establishment.                    | 0.71         | 0.79         | 0.83         | 0.94         | 1.06         | 0.93         | 0.84         |
| Soldiers' Land Settlement.                           | 0.14         | 0.14         | 0.13         | 0.13         | 0.10         | 0.08         | 0.07         |
| Subsidies to provinces.                              | 1.27         | 1.25         | 1.22         | 1.68         | 1.30         | 1.26         | 1.27         |
| Trade and Commerce.                                  | 0.36         | 0.39         | 0.42         | 0.58         | 0.70         | 0.39         | 0.34         |
| Other ordinary expenditure.                          | 3.69         | 4.01         | 4.09         | 4.76         | 4.81         | 4.71         | 3.97         |
| <b>Totals, Ordinary Expenditure.</b>                 | <b>34.19</b> | <b>35.00</b> | <b>35.06</b> | <b>37.55</b> | <b>35.73</b> | <b>33.56</b> | <b>31.99</b> |
| Special expenditure.                                 | 0.34         | 0.14         | 0.95         | 1.61         | 5.28         | 9.06         | 9.39         |
| Capital expenditure.                                 | 2.10         | 2.27         | 2.21         | 2.72         | 1.62         | 0.80         | 0.60         |
| Other Disbursements—                                 |              |              |              |              |              |              |              |
| Advances to railways and merchant marine.            | 0.10         | 0.08         | 0.53         | 0.18         | 0.11         | 0.13         | —            |
| Miscellaneous.                                       | 1.78         | 1.29         | 0.26         | 0.35         | 0.18         | 6.49         | 0.29         |
| <b>Grand Totals, Expenditure.</b>                    | <b>38.51</b> | <b>38.78</b> | <b>39.01</b> | <b>42.41</b> | <b>42.92</b> | <b>49.78</b> | <b>42.27</b> |

#### Subsection 3.—War Tax Revenue.

An account of the various war taxes, imposed in 1915 and subsequently, has already been given on pp. 883-886 in the introduction to this section. For convenience of reference, the amounts received from these taxes since the beginning are segregated and the totals paid in to the Receiver General are given in Table 8. The taxes imposed on banks, trust and loan companies and insurance companies are collected by the Department of Finance. The excise war taxes, the business profits war tax and the income war tax are collected by the Department of National Revenue, formerly the Customs and Excise Department. The amounts of excise war taxes collected from different sources in the past six fiscal years are given in Table 9, while Tables 10 and 11 contain the details by provinces for the two latest years. (See also Tables 40 to 45 of this chapter.)



**8.—War Tax Revenue Received by the Receiver General, fiscal years ended Mar. 31, 1915-34.**

| Year.              | Banks.            | Trust and Loan Companies. | Insurance Companies. | Business Profits. <sup>1</sup> | Income Tax.        | Sales, Transportation Tax, etc. | Total War Tax Revenue. |
|--------------------|-------------------|---------------------------|----------------------|--------------------------------|--------------------|---------------------------------|------------------------|
|                    | \$                | \$                        | \$                   | \$                             | \$                 | \$                              | \$                     |
| 1915.....          | —                 | —                         | —                    | —                              | —                  | 98,057                          | 98,057                 |
| 1916.....          | 1,300,447         | 324,250                   | 459,247              | —                              | —                  | 1,536,838                       | 3,620,782              |
| 1917.....          | 1,114,023         | 202,415                   | 419,699              | 12,506,517                     | —                  | 2,059,584                       | 16,302,238             |
| 1918.....          | 1,115,758         | 269,129                   | 496,540              | 21,271,084                     | —                  | 2,227,390                       | 25,379,901             |
| 1919.....          | 1,099,764         | 323,340                   | 546,114              | 32,970,062                     | 9,349,720          | 11,888,508                      | 56,177,508             |
| 1920.....          | 1,170,223         | 274,216                   | 638,731              | 44,145,184                     | 20,263,740         | 15,587,707                      | 82,079,801             |
| 1921.....          | 1,257,534         | 293,802                   | 807,667              | 40,841,401                     | 46,381,824         | 78,803,099                      | 168,385,327            |
| 1922.....          | 1,293,697         | 283,994                   | 749,959              | 22,815,667                     | 78,684,355         | 73,656,489                      | 177,484,161            |
| 1923.....          | 1,244,437         | 312,392                   | 852,328              | 13,031,462                     | 59,711,538         | 106,482,718                     | 181,634,875            |
| 1924.....          | 1,236,957         | 308,632                   | 857,587              | 4,752,681                      | 54,204,028         | 120,676,376                     | 182,036,261            |
| 1925.....          | 1,217,754         | 315,315                   | 867,902              | 2,704,427                      | 56,248,043         | 85,810,717                      | 147,164,158            |
| 1926.....          | 1,176,869         | 326,714                   | 950,221              | 1,173,449                      | 55,571,962         | 98,097,106                      | 157,296,321            |
| 1927.....          | 1,174,665         | 335,368                   | 947,830              | 710,102                        | 47,386,309         | 105,613,160                     | 156,167,434            |
| 1928.....          | 1,224,645         | 345,430                   | 999,003              | 956,031                        | 56,571,047         | 90,222,931                      | 150,319,087            |
| 1929.....          | 1,242,399         | 7,641                     | 894,864              | 455,232                        | 59,422,323         | 83,007,283                      | 145,029,742            |
| 1930.....          | 1,408,420         | —                         | 74,416               | 173,500                        | 69,020,726         | 63,409,143                      | 134,086,005            |
| 1931.....          | 1,429,264         | 6                         | 74,250               | 34,430                         | 71,048,022         | 34,734,661                      | 107,320,633            |
| 1932.....          | 1,390,121         | —                         | 12,152               | 3,000                          | 61,254,400         | 59,606,391                      | 122,266,064            |
| 1933.....          | 1,327,535         | —                         | 826,150              | 54                             | 62,066,697         | 82,191,575                      | 146,412,011            |
| 1934.....          | 1,355,546         | —                         | 741,681              | —                              | 61,399,171         | 106,575,575                     | 170,051,973            |
| <b>Totals.....</b> | <b>23,760,058</b> | <b>3,922,644</b>          | <b>12,216,341</b>    | <b>198,544,083</b>             | <b>868,583,905</b> | <b>1,222,285,308</b>            | <b>2,329,312,339</b>   |

<sup>1</sup>Although this tax was not charged upon profits accruing after Dec. 31, 1920 (see 14-15 Geo. V, c. 10), belated revenue therefrom continued to be received up till 1933.

**9.—Summary of Excise War Taxes Collected by the Department of National Revenue, (formerly the Department of Customs and Excise), fiscal years ended Mar. 31, 1929-34.**

(Accrued Revenue.)

| Item.                                     | 1929.                         | 1930.                         | 1931.                         | 1932.                         | 1933.                         | 1934.                          |
|-------------------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|
|                                           | \$                            | \$                            | \$                            | \$                            | \$                            | \$                             |
| Licences.....                             | 38,690                        | 44,530                        | 38,339                        | 37,127                        | 42,366                        | 42,506                         |
| Stamps.....                               | 3,867,810                     | 5,559,844                     | 3,609,180                     | 2,852,913                     | 3,276,618                     | 4,438,833                      |
| Matches.....                              | 1,502,395                     | 1,794,556                     | 1,838,232                     | 1,949,470                     | 1,659,907                     | 1,672,390                      |
| Automobiles.....                          | 1,025,661                     | 742,471                       | 398,444                       | 332,668                       | 220,328                       | 855,490                        |
| Playing cards.....                        | 268,752                       | 291,184                       | 290,035                       | 276,528                       | 206,020                       | 240,488                        |
| Toilet preparations.....                  | —                             | —                             | —                             | —                             | —                             | 862,119                        |
| Cigars.....                               | 328,764                       | 329,217                       | 256,551                       | 217,938                       | 153,677                       | 120,469                        |
| Wines.....                                | 211,717                       | 299,466                       | 262,225                       | 258,061                       | 195,369                       | 213,631                        |
| Ale, beer and porter.....                 | 7,953,133                     | 7,475,125                     | 6,541,366                     | 6,297,859                     | 4,972,604                     | 4,718,307                      |
| Malt products.....                        | —                             | —                             | —                             | —                             | —                             | 209,332                        |
| Sugar.....                                | —                             | —                             | —                             | —                             | —                             | 14,122,564                     |
| Transportation and tele-<br>phones.....   | 2,647,801                     | 650,172                       | 204                           | —                             | 1,031,657                     | 1,375,046                      |
| Embossed cheques.....                     | 13,276                        | 3,973                         | 790                           | —                             | —                             | —                              |
| Embossed cheques (Depart-<br>mental)..... | 195,201                       | 186,240                       | 187,337                       | 194,372                       | 115,711                       | 201,395                        |
| Penalties and interest.....               | 183,934                       | 169,452                       | 278,577                       | 219,032                       | 91,073                        | 142,328                        |
| Sales, domestic.....                      | 49,151,636                    | 34,936,376                    | 16,586,976                    | 34,557,788                    | 49,275,963                    | 54,244,032                     |
| <b>Domestic Totals.....</b>               | <b>67,388,770</b>             | <b>52,482,606</b>             | <b>30,288,256</b>             | <b>47,193,756</b>             | <b>61,241,293</b>             | <b>83,458,930</b>              |
| Importations—                             |                               |                               |                               |                               |                               |                                |
| Sales.....                                | 14,495,036                    | 9,922,325                     | 4,196,929                     | 7,834,822                     | 8,701,609                     | 8,979,576                      |
| Excise.....                               | 2,130,360                     | 1,748,665                     | 886,681                       | 253,505                       | 34,707                        | 1,434,656                      |
| Special excise 1 p.c. <sup>1</sup> .....  | —                             | —                             | —                             | 4,982,217                     | 13,377,726                    | 14,534,620                     |
| <b>Gross Totals, Excise Taxes.</b>        | <b>84,014,166<sup>2</sup></b> | <b>64,153,596<sup>2</sup></b> | <b>35,371,906<sup>2</sup></b> | <b>60,264,300<sup>2</sup></b> | <b>83,355,335<sup>2</sup></b> | <b>108,407,782<sup>2</sup></b> |

<sup>1</sup> 3 p.c. in 1933 and 1934. <sup>2</sup> Includes refunds of \$1,006,883 in 1929, \$744,453 in 1930, \$637,245 in 1931, \$657,909 in 1932, \$1,163,759 in 1933 and \$1,832,208 in 1934.

**10.—Excise War Taxes Collected by the Department of National Revenue, by Provinces, fiscal year ended Mar. 31, 1933.**

(Accrued Revenue.)

| Province or Other Source. | Licences.     | Stamps.          | Matches.         | Automobiles.   | Sales.            |
|---------------------------|---------------|------------------|------------------|----------------|-------------------|
|                           | \$            | \$               | \$               | \$             | \$                |
| Prince Edward Island..... | 168           | 11,827           | —                | —              | 24,987            |
| Nova Scotia.....          | 1,026         | 96,492           | —                | 181            | 572,894           |
| New Brunswick.....        | 792           | 70,501           | —                | 262            | 480,209           |
| Quebec.....               | 12,046        | 932,000          | 836,688          | 2,860          | 16,986,934        |
| Ontario.....              | 20,788        | 1,462,118        | 823,219          | 213,069        | 27,017,065        |
| Manitoba.....             | 1,590         | 198,997          | —                | 1,441          | 1,618,566         |
| Saskatchewan.....         | 656           | 122,479          | —                | —              | 260,012           |
| Alberta.....              | 1,494         | 154,278          | —                | 983            | 682,072           |
| British Columbia.....     | 3,796         | 211,813          | —                | 1,532          | 1,632,986         |
| Yukon.....                | 10            | 1,063            | —                | —              | 238               |
| Departmental sales.....   | —             | 15,050           | —                | —              | —                 |
| <b>Totals.....</b>        | <b>42,366</b> | <b>3,276,618</b> | <b>1,659,907</b> | <b>220,328</b> | <b>49,275,963</b> |

| Province or Other Source. | Playing Cards. | Cigars.        | Wines.         | Beer.            | Embossed Cheques. | Transportation and Telephones. |
|---------------------------|----------------|----------------|----------------|------------------|-------------------|--------------------------------|
|                           | \$             | \$             | \$             | \$               | \$                | \$                             |
| Prince Edward Island..... | —              | —              | —              | —                | —                 | —                              |
| Nova Scotia.....          | —              | 26             | —              | 95,652           | —                 | 17,454                         |
| New Brunswick.....        | —              | —              | —              | 22,424           | —                 | 12,679                         |
| Quebec.....               | 82,020         | 86,477         | 634            | 2,677,840        | 50                | 648,057                        |
| Ontario.....              | 124,000        | 65,682         | 184,706        | 1,093,747        | 70                | 245,791                        |
| Manitoba.....             | —              | —              | 62             | 276,975          | 14                | 19,778                         |
| Saskatchewan.....         | —              | —              | —              | 131,078          | 4                 | 29,034                         |
| Alberta.....              | —              | 184            | —              | 327,336          | —                 | 32,930                         |
| British Columbia.....     | —              | 1,308          | 9,967          | 347,552          | 115               | 25,929                         |
| Yukon.....                | —              | —              | —              | —                | —                 | 6                              |
| Departmental sales.....   | —              | —              | —              | —                | 115,458           | —                              |
| <b>Totals.....</b>        | <b>206,020</b> | <b>153,677</b> | <b>195,369</b> | <b>4,972,604</b> | <b>115,711</b>    | <b>1,031,657</b>               |

| Province or Other Source.     | Penalties and Interest. | Domestic Total.   | Importations.    |               |                        | Grand Total.      |
|-------------------------------|-------------------------|-------------------|------------------|---------------|------------------------|-------------------|
|                               |                         |                   | Sales.           | Excise.       | Special Excise, 3 p.c. |                   |
|                               | \$                      | \$                | \$               | \$            | \$                     | \$                |
| Prince Edward Island.....     | 35                      | 37,017            | 12,592           | 221           | 17,360                 | 67,190            |
| Nova Scotia.....              | 1,861                   | 785,585           | 189,938          | 2,027         | 353,760                | 1,331,311         |
| New Brunswick.....            | 431                     | 587,299           | 198,314          | 886           | 319,302                | 1,105,802         |
| Quebec.....                   | 37,803                  | 22,303,410        | 2,526,180        | 8,307         | 4,309,579              | 29,147,476        |
| Ontario.....                  | 34,561                  | 31,284,817        | 3,617,860        | 13,638        | 6,348,491              | 41,264,806        |
| Manitoba.....                 | 3,021                   | 2,120,443         | 579,008          | 1,441         | 484,190                | 3,185,081         |
| Saskatchewan.....             | 742                     | 544,005           | 157,439          | 934           | 158,872                | 861,249           |
| Alberta.....                  | 1,221                   | 1,200,498         | 253,958          | 714           | 211,486                | 1,666,656         |
| British Columbia.....         | 11,341                  | 2,246,339         | 1,151,670        | 6,340         | 1,166,406              | 4,570,755         |
| Yukon.....                    | 57                      | 1,373             | 12,605           | 199           | 8,280                  | 22,457            |
| Departmental sales.....       | —                       | 130,507           | —                | —             | —                      | 130,507           |
| British Post Office Parcels.. | —                       | —                 | 2,045            | —             | —                      | 2,045             |
| <b>Totals.....</b>            | <b>91,073</b>           | <b>61,241,293</b> | <b>8,701,609</b> | <b>34,707</b> | <b>13,377,726</b>      | <b>83,355,335</b> |

11.—Excise War Taxes Collected by the Department of National Revenue, by Provinces, fiscal year ended Mar. 31, 1934.

(Accrued Revenue.)

| Province or Other Source. | Licences.     | Stamps.          | Matches.         | Automobiles.   | Sales.            | Toilet Preparations. | Playing Cards. |
|---------------------------|---------------|------------------|------------------|----------------|-------------------|----------------------|----------------|
|                           | \$            | \$               | \$               | \$             | \$                | \$                   | \$             |
| Prince Edward Island..... | 144           | 12,626           | —                | —              | 24,625            | —                    | —              |
| Nova Scotia.....          | 1,046         | 100,460          | —                | 52             | 678,355           | 38                   | —              |
| New Brunswick.....        | 978           | 70,456           | —                | 171            | 524,135           | —                    | —              |
| Quebec.....               | 12,380        | 1,382,687        | 874,859          | 147,698        | 18,841,713        | 208,704              | 92,488         |
| Ontario.....              | 20,744        | 2,061,180        | 777,531          | 704,639        | 29,844,231        | 622,233              | 148,000        |
| Manitoba.....             | 1,534         | 209,766          | —                | 1,058          | 1,731,621         | 26,302               | —              |
| Saskatchewan.....         | 518           | 132,727          | —                | —              | 357,525           | 382                  | —              |
| Alberta.....              | 1,350         | 166,304          | —                | 1,412          | 695,370           | 227                  | —              |
| British Columbia.....     | 3,810         | 294,059          | —                | 460            | 2,046,425         | 4,233                | —              |
| Yukon.....                | 2             | 1,076            | —                | —              | 32                | —                    | —              |
| Departmental sales.....   | —             | 7,492            | —                | —              | —                 | —                    | —              |
| <b>Totals.....</b>        | <b>42,506</b> | <b>4,438,833</b> | <b>1,672,390</b> | <b>855,490</b> | <b>54,244,032</b> | <b>862,119</b>       | <b>240,488</b> |

| Province or Other Source. | Cigars.        | Wines.         | Beer.            | Malt Products. | Sugar.            | Embossed Cheques. | Transportation and Telephones. |
|---------------------------|----------------|----------------|------------------|----------------|-------------------|-------------------|--------------------------------|
|                           | \$             | \$             | \$               | \$             | \$                | \$                | \$                             |
| Prince Edward Island..... | —              | —              | —                | —              | —                 | —                 | —                              |
| Nova Scotia.....          | 17             | —              | 78,800           | —              | 1,490,499         | —                 | 24,436                         |
| New Brunswick.....        | —              | —              | 20,053           | —              | —                 | —                 | 16,947                         |
| Quebec.....               | 72,062         | 6,852          | 2,351,685        | —              | 4,299,717         | —                 | 868,829                        |
| Ontario.....              | 47,623         | 194,453        | 1,189,580        | 209,206        | 5,328,753         | —                 | 323,239                        |
| Manitoba.....             | —              | 170            | 268,634          | —              | —                 | —                 | 23,637                         |
| Saskatchewan.....         | —              | —              | 121,689          | —              | —                 | —                 | 35,333                         |
| Alberta.....              | 92             | —              | 311,796          | —              | 696,921           | —                 | 43,596                         |
| British Columbia.....     | 675            | 12,156         | 376,070          | 126            | 2,306,674         | —                 | 39,021                         |
| Yukon.....                | —              | —              | —                | —              | —                 | —                 | 8                              |
| Departmental sales.....   | —              | —              | —                | —              | —                 | 201,395           | —                              |
| <b>Totals.....</b>        | <b>120,469</b> | <b>213,631</b> | <b>4,718,307</b> | <b>209,332</b> | <b>14,122,564</b> | <b>201,395</b>    | <b>1,375,046</b>               |

| Province or Other Source.        | Interest.      | Domestic Total.   | Importations.    |                  |                        | Grand Total.       |
|----------------------------------|----------------|-------------------|------------------|------------------|------------------------|--------------------|
|                                  |                |                   | Sales.           | Excise.          | Special Excise, 3 p.c. |                    |
|                                  | \$             | \$                | \$               | \$               | \$                     | \$                 |
| Prince Edward Island.....        | 27             | 37,423            | 15,868           | 387              | 12,942                 | 66,620             |
| Nova Scotia.....                 | 4,270          | 2,377,972         | 181,281          | 18,666           | 421,507                | 2,999,426          |
| New Brunswick.....               | 762            | 633,503           | 310,126          | 2,188            | 370,547                | 1,316,363          |
| Quebec.....                      | 34,440         | 29,214,115        | 2,719,753        | 868,909          | 4,525,470              | 37,328,247         |
| Ontario.....                     | 88,290         | 41,059,702        | 3,543,071        | 489,197          | 7,143,446              | 52,235,416         |
| Manitoba.....                    | 3,395          | 2,266,117         | 560,085          | 11,527           | 481,690                | 3,319,419          |
| Saskatchewan.....                | 365            | 648,539           | 151,825          | 2,687            | 147,264                | 950,315            |
| Alberta.....                     | 3,636          | 1,920,703         | 255,725          | 5,905            | 216,553                | 2,398,887          |
| British Columbia.....            | 7,143          | 5,090,851         | 1,227,530        | 34,969           | 1,208,999              | 7,562,350          |
| Yukon.....                       | —              | 1,118             | 12,440           | 221              | 6,202                  | 19,981             |
| Departmental sales.....          | —              | 7,492             | —                | —                | —                      | 208,887            |
| British Post Office Parcels..... | —              | —                 | 1,872            | —                | —                      | 1,872              |
| <b>Totals.....</b>               | <b>142,328</b> | <b>83,458,930</b> | <b>8,979,576</b> | <b>1,434,656</b> | <b>14,534,620</b>      | <b>108,407,783</b> |

### Subsection 4.—Inland Revenue.

Under the Inland Revenue Act (R.S.C., 1906, c. 5), the Department of Inland Revenue had the control and management of standard weights and measures and of the collection of excise duties, of stamp duties, internal taxes, bridge and ferry tolls and rents until 1918. It administered the Statutes which dealt with the adulteration of food and other articles, electricity and gas inspection, patent medicines, petroleum, naphtha and the analysis of fertilizers and feeding stuffs. This department also established the food standards, which were put into force by Orders in Council under the authority of Section 26 of the Adulteration Act. Later the administration of the Adulteration of Food and the Proprietary and Patent Medicine Acts was transferred to the Department of Health, that of the Commercial Feeding Stuff and Fertilizers Acts to the Department of Agriculture, and that of the Acts relating to weights and measures and the inspection of gas, electric light and water meters to the Department of Trade and Commerce. By Order in Council of May 18, 1918, the Departments of Customs and of Inland Revenue were combined as the Department of Customs and Inland Revenue, under one Minister of the Crown. On June 4, 1921, the Department of Customs and Inland Revenue was consolidated as the Department of Customs and Excise (11-12 George V, c. 26). As from April 1, 1927, the name of this department, which collects the great bulk of the revenue of the Dominion, was changed to Department of National Revenue by authority of 17 Geo. V, c. 34. This Act provides for three chief departmental officers—the Commissioner of Customs, the Commissioner of Excise and the Commissioner of Income Tax, while an Assistant Commissioner of Customs may also be appointed.

In the fiscal year ended Mar. 31, 1934, the gross amount of customs duties collected by the department was \$73,154,472, as compared with \$77,271,965 in 1933, \$113,997,851 in 1932, \$149,250,992 in 1931, \$199,011,628 in 1930 and \$200,479,505 in 1929. The total of excise duties and excise war taxes collected in the fiscal year ended Mar. 31, 1934, was \$145,176,663, as compared with \$123,478,841 in 1933, \$109,586,366 in 1932, \$93,986,975 in 1931, \$129,822,444 in 1930 and \$148,376,494 in 1929.<sup>1</sup> The total of income tax collected in the fiscal year ended Mar. 31, 1934, was \$61,399,172, as compared with \$62,066,697 in 1933. While the income tax and the business profits war tax (see Table 8) are collected by the Commissioner of Income Tax, the other main branches of inland revenue—the excise duties and excise war taxes—are collected by the Commissioner of Excise.

**Canadian Excise Tariff.**—The following is a statement of the Canadian excise tariff, as existing at Jan. 1, 1935:—

|                                                                                                                                          |                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1. Spirits distilled in Canada, per proof gal. . . \$ 7.00                                                                               | (b) Imported (in addition to any of the duties otherwise imposed), per gal. . . . . 0.07 |
| Except Spirits as follows:—                                                                                                              |                                                                                          |
| (a) Used in a bonded manufactory for medicines, extracts, etc., per proof gal. . . 2.50                                                  | 4. Malt:—                                                                                |
| (b) Used in a bonded manufactory for perfumes, per proof gal. . . . . 1.50                                                               | (a) Produced in Canada and screened, per lb. . . . . 0.06                                |
| (c) Used in a bonded manufactory for vinegar, per proof gal. . . . . 0.27                                                                | (b) Imported, per lb. . . . . 0.06                                                       |
| (d) Used for chemical compositions approved by Governor in Council, per proof gal. . . . . 0.15                                          | (c) Imported, crushed or ground, per lb. . . 0.08                                        |
| (e) Sold to licensed druggists for pharmaceutical preparations, per proof gal. . . 2.50                                                  | 5. Malt Syrup:—                                                                          |
| (f) Distilled from native fruits and used by a licensed wine manufacturer for fortification of native wines, per proof gal. . . . . 1.00 | (a) Produced in Canada, per lb. . . . . 0.10                                             |
| 2. Spirits imported (in addition to any of the duties otherwise imposed), per proof gal. . . . . 0.30                                    | (b) Imported, per lb. . . . . 0.16                                                       |
| 3. Beer or Malt Liquor:—                                                                                                                 | 6. Tobacco, Cigars and Cigarettes:—                                                      |
| (a) Brewed in whole or part from any substance other than malt, per Gal. . . . . 0.22                                                    | (a) Manufactured tobacco, per lb. . . . . 0.20                                           |
|                                                                                                                                          | (b) Cigarettes weighing not more than 3 lb. per M, per M. . . . . 4.00                   |
|                                                                                                                                          | (c) Cigarettes weighing more than 3 lb. per M, per M. . . . . 11.00                      |
|                                                                                                                                          | (d) Imported leaf tobacco, unstemmed, per lb. . . . . 0.40                               |
|                                                                                                                                          | (e) Imported leaf tobacco, stemmed, per lb. . . . . 0.60                                 |
|                                                                                                                                          | (f) Cigars, per M. . . . . 3.00                                                          |

<sup>1</sup>Table 9, p. 897, gives the details of the revenues from individual taxes for the years 1929-34 and Tables 10 and 11, pp. 898-899, give the revenues from individual taxes by provinces for 1933 and 1934.



A drawback of 99 p.c. of the duty may be granted when domestic spirits, testing not less than 50 p.c. over proof, are delivered in limited quantities to universities, scientific or research laboratories, or to any *bona fide* public hospital for medicinal purposes only.

**Revenue from Excise Duties.**—The inland revenue collected from excise duties, other than war taxes, is shown by items for the past six fiscal years in Table 12. Tobacco, including cigarettes, is shown by the figures to be supplying about 70 p.c. of the revenue from excise duties.

**12.—Details of Excise Duties Collected, fiscal years ended Mar. 31, 1929-34.**

(As shown in the Report of the Commissioner of Excise.)

| Item.               | 1929.             | 1930.             | 1931.             | 1932.             | 1933.             | 1934.             |
|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                     | \$                | \$                | \$                | \$                | \$                | \$                |
| Spirits.....        | 19,337,974        | 18,526,908        | 11,815,576        | 8,153,448         | 7,201,375         | 7,176,513         |
| Validation fee..... | —                 | —                 | —                 | —                 | —                 | 323,482           |
| Malt liquor.....    | 346,540           | 342,098           | 384,102           | 385,436           | 302,539           | 234,877           |
| Malt.....           | 4,755,295         | 4,493,801         | 4,138,910         | 3,633,438         | 2,875,779         | 2,773,984         |
| Tobacco.....        | 39,304,793        | 41,668,542        | 41,699,017        | 36,647,484        | 29,330,598        | 25,857,511        |
| Cigars.....         | 572,683           | 588,977           | 533,565           | 456,654           | 368,352           | 347,803           |
| Licences.....       | 45,043            | 48,522            | 43,899            | 45,605            | 44,863            | 54,710            |
| <b>Totals.....</b>  | <b>64,362,328</b> | <b>65,668,848</b> | <b>58,615,069</b> | <b>49,322,065</b> | <b>40,123,506</b> | <b>36,768,880</b> |

**Statistics of Licences and Distillation.**—As a by-product of the collection of excise duties, statistics are compiled of excise licences issued and of distillation; figures for recent years are given in Tables 13 and 14.

**13.—Number of Excise Licences Issued, fiscal years ended Mar. 31, 1928-34.**

| Description.                                    | 1928. | 1929. | 1930. | 1931. | 1932. | 1933. | 1934. |
|-------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                                                 | No.   | No.   | No.   | No.   | No.   | No.   | No.   |
| Distillers.....                                 | 23    | 25    | 28    | 27    | 27    | 24    | 20    |
| Brewers and maltsters.....                      | 93    | 95    | 94    | 98    | 92    | 88    | 83    |
| Tobacco manufacturers.....                      | 58    | 57    | 56    | 56    | 60    | 68    | 73    |
| Cigar manufacturers.....                        | 90    | 83    | 82    | 76    | 77    | 82    | 85    |
| Petroleum refiners.....                         | 22    | 21    | 22    | 22    | 27    | 36    | 46    |
| Manufacturers in Bond—                          |       |       |       |       |       |       |       |
| Perfumes, pharmaceutical preparations, etc..... | 346   | 330   | 338   | 337   | 337   | 335   | 330   |
| Chemical stills.....                            | 152   | 144   | 135   | 133   | 141   | 161   | 160   |
| Wood alcohol manufacturers.....                 | 6     | 6     | 8     | 6     | 6     | 6     | 6     |
| Malt vinegar brewers.....                       | 3     | 4     | 4     | 5     | 5     | 4     | 5     |
| Still manufacturers and importers.....          | 26    | 24    | 29    | 26    | 23    | 15    | 12    |
| Acetic acid manufacturers.....                  | 3     | 3     | 3     | 3     | 3     | 3     | 2     |
| Bonded warehouses.....                          | 62    | 51    | 49    | 48    | 62    | 66    | 59    |
| Compounders.....                                | 3     | 4     | 6     | 6     | 6     | 9     | 9     |
| Canadian leaf stemmers.....                     | 9     | 10    | 10    | 9     | 14    | 10    | 14    |

**14.—Statistics of Distillation, fiscal years ended Mar. 31, 1929-34.**

| Schedule.                       | 1929.              | 1930.              | 1931.              | 1932.             | 1933.             | 1934.             |
|---------------------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|
| Licences issued.....No.         | 25                 | 28                 | 27                 | 27                | 24                | 20                |
| Licence fees.....\$             | 6,625              | 7,750              | 6,125              | 7,125             | 6,250             | 5,750             |
| Grain, etc., for Distillation—  |                    |                    |                    |                   |                   |                   |
| Malt.....lb.                    | 39,170,372         | 42,054,219         | 19,519,949         | 10,802,254        | 6,807,119         | 8,259,033         |
| Indian corn.....“               | 106,112,316        | 114,942,991        | 35,879,402         | 19,657,775        | 17,871,546        | 27,497,313        |
| Rye.....“                       | 80,449,536         | 78,075,195         | 47,421,646         | 27,121,120        | 17,552,045        | 13,929,865        |
| Oats and other grain.....“      | 228,102            | 257,510            | 64,150             | 189,080           | 17,125            | 121,208           |
| Wheat.....“                     | —                  | —                  | —                  | —                 | —                 | —                 |
| Rice.....“                      | 84,523             | 58,330             | —                  | —                 | —                 | —                 |
| <b>Totals, Grain Used.....“</b> | <b>226,044,849</b> | <b>235,398,245</b> | <b>102,885,147</b> | <b>57,770,229</b> | <b>42,247,835</b> | <b>49,807,419</b> |

## 14.—Statistics of Distillation, fiscal years ended Mar. 31, 1929-34—concluded.

| Schedule.                                                                           | 1929.      | 1930.      | 1931.      | 1932.      | 1933.      | 1934.      |
|-------------------------------------------------------------------------------------|------------|------------|------------|------------|------------|------------|
| Molasses used..... lb.                                                              | 78,099,601 | 61,036,607 | 70,304,701 | 71,988,200 | 39,272,923 | 69,111,370 |
| Wine and other materials "                                                          | —          | —          | —          | 15,917,061 | 3,071,695  | 1,525,733  |
| Proof spirits manufactured,..... proof gal.                                         | 16,816,312 | 16,813,433 | 9,286,780  | 7,099,637  | 4,345,834  | 6,411,230  |
| Duty Collected Ex-manufactory on Deficiencies and Assessment—Amount..... proof gal. | 131        | 312        | 965        | 9,643      | 575        | 297        |
| Duty..... \$                                                                        | 1.178      | 2.813      | 8.677      | 87.061     | 5.187      | 2.076      |
| Total duties collected plus licence fees..... \$                                    | 7,803      | 10,563     | 14,802     | 94,186     | 11,437     | 7,826      |

**Alcohol and Tobacco Taken out of Bond.**—In Table 15 are shown the quantities of spirits, malt liquor, malt, cigars, cigarettes and tobacco taken out of bond for consumption in the fiscal years ended 1911 to 1934.

Between 1920 and 1934 the number of cigars taken out of bond fell from 270,089,761 to 115,988,080 and the quantity of tobacco, which was 23,049,012 lb. in 1920, had fallen to 20,870,651 lb. by 1925, since when there was a steady increase to 22,815,839 lb. in 1933. The consumption of cigarettes increased from 2,440,982,912 in 1920 to 5,082,314,590 in 1931 but declined to 4,401,628,765 in 1932, and 3,728,832,089 in 1933, rising again to 4,342,728,835 in 1934.

Between 1923 and 1929 spirits taken out of bond (exclusive of imported spirits) rose from 729,678 gal. to 2,016,802 gal., but there has been a decided and steady drop since 1929 to 769,527 gal. for 1933, with an increase to 933,946 gal. in 1934. Malt liquor shows an increase from 36,789,195 gal. in 1923 to 65,719,129 gal. in 1929 and a decrease to 40,105,883 gal. in 1934.

## 15.—Quantities of Spirits, Malt Liquor, Malt and Tobacco Taken Out of Bond for Consumption, fiscal years ended Mar. 31, 1911-34.

(For years prior to 1900 see 1916-17 Year Book, p. 528, and for 1901-10 see 1933 Year Book, p. 840.)

| Fiscal Year. | Spirits. <sup>1</sup> | Malt Liquor. | Malt.       | Cigars.     | Cigarettes.   | Tobacco. <sup>2</sup> |
|--------------|-----------------------|--------------|-------------|-------------|---------------|-----------------------|
|              | gal.                  | gal.         | lb.         | No.         | No.           | lb.                   |
| 1911.....    | 4,146,452             | 41,752,448   | 101,525,430 | 227,585,692 | 585,935,370   | 18,903,322            |
| 1912.....    | 4,562,382             | 47,518,647   | 114,029,523 | 252,718,242 | 782,663,841   | 21,419,046            |
| 1913.....    | 4,999,937             | 52,314,400   | 123,920,607 | 294,772,933 | 977,743,301   | 22,371,636            |
| 1914.....    | 4,762,618             | 56,060,846   | 133,794,639 | 288,219,892 | 1,166,023,170 | 22,248,760            |
| 1915.....    | 4,021,090             | 47,963,225   | 111,037,743 | 236,866,542 | 1,090,125,936 | 21,180,857            |
| 1916.....    | 3,629,324             | 39,638,877   | 89,476,590  | 207,647,808 | 1,082,324,710 | 20,698,241            |
| 1917.....    | 4,118,147             | 34,827,284   | 78,815,746  | 239,752,252 | 1,307,276,750 | 20,735,080            |
| 1918.....    | 4,591,972             | 28,442,427   | 59,626,049  | 254,445,945 | 1,664,709,933 | 21,780,168            |
| 1919.....    | 2,941,108             | 26,024,117   | 49,184,747  | 221,087,110 | 1,553,468,890 | 19,980,446            |
| 1920.....    | 3,816,124             | 36,863,867   | 69,975,631  | 270,089,761 | 2,440,982,912 | 23,049,012            |
| 1921.....    | 2,816,071             | 35,509,757   | 82,210,351  | 214,262,197 | 2,439,832,278 | 19,389,268            |
| 1922.....    | 730,474               | 38,404,346   | 87,561,176  | 181,255,533 | 2,450,397,154 | 20,528,228            |
| 1923.....    | 729,678               | 36,789,195   | 84,922,024  | 183,965,151 | 1,917,773,908 | 22,072,709            |
| 1924.....    | 899,291               | 43,717,823   | 105,446,160 | 198,042,909 | 2,420,052,731 | 21,172,307            |
| 1925.....    | 910,316               | 48,106,177   | 118,237,385 | 168,097,387 | 2,531,693,150 | 20,870,651            |
| 1926.....    | 1,082,785             | 52,443,505   | 127,789,729 | 174,363,188 | 2,883,448,160 | 21,595,483            |
| 1927.....    | 1,404,111             | 51,726,251   | 126,967,976 | 175,335,838 | 3,333,999,860 | 21,589,772            |
| 1928.....    | 1,896,357             | 58,391,360   | 142,543,947 | 181,730,614 | 3,927,022,325 | 21,907,747            |
| 1929.....    | 2,016,802             | 65,719,129   | 158,490,019 | 190,981,166 | 4,607,500,425 | 21,973,221            |
| 1930.....    | 1,926,063             | 62,992,156   | 149,746,711 | 196,251,957 | 5,035,878,655 | 22,195,455            |
| 1931.....    | 1,180,536             | 58,641,404   | 137,997,652 | 177,841,987 | 5,082,314,590 | 22,520,348            |
| 1932.....    | 781,612               | 52,001,768   | 121,257,234 | 152,159,301 | 4,401,628,765 | 22,801,035            |
| 1933.....    | 769,527               | 40,632,084   | 95,604,954  | 122,664,715 | 3,728,832,089 | 22,815,839            |
| 1934.....    | 933,946               | 40,105,883   | 92,319,768  | 115,988,080 | 4,342,728,835 | 22,315,295            |

<sup>1</sup>Exclusive of imported spirits but inclusive of non-potable spirits down to 1921.

<sup>2</sup>Including snuff.

Subsection 5.—Subsidies and Loans to Provinces.

**Subsidies.**—Tables 16 and 17 show the subsidies and other payments made by the Dominion to each of the Provincial Governments for the individual fiscal years ended from 1929 to 1934 (Table 16), and the totals paid from Confederation to 1934 (Table 17). The provincial subsidies payable by the Dominion Government were originally settled by the British North America Act, 1867 (30 and 31 Vict., c.3, s. 118), but were revised by the British North America Act, 1907 (7 Edw. VII, c. 11). Under the revised settlement each Provincial Government receives: (a) a fixed grant according to population and (b) a grant at the rate of 80 cents per head of the population up to 2,500,000, and at the rate of 60 cents per head of so much of the population as exceeds that number. The province of British Columbia received an additional grant of \$100,000 per annum for a period of 10 years from 1907.\* An additional grant of \$100,000 per annum is payable to Prince Edward Island under an Act of 1912 (2 Geo. V, c. 42), and the payments to Manitoba were revised by the Extension of Boundaries (Manitoba) Act, 1912 (2 Geo. V, c. 32); in 1931 an amount of \$4,822,843 was paid as a readjustment in lieu of public lands from 1870 to 1908 as provided for in the Manitoba Natural Resources Act, 1930. Other payments to the Provincial Governments by the Dominion Government consist of special grants, such as compensation for lands, allowances for buildings, allowances in lieu of debt, allowances pending reconsideration of subsidies, etc.

\*See Canada Year Book, 1907, pp. xxxiii-iv.

16.—Subsidies of Dominion to Provincial Governments, fiscal years ended 1929-34.

| Province.                 | 1929.                | 1930.                | 1931.                  | 1932.                | 1933.                | 1934.                |
|---------------------------|----------------------|----------------------|------------------------|----------------------|----------------------|----------------------|
|                           | \$                   | \$                   | \$                     | \$                   | \$                   | \$                   |
| Prince Edward Island..... | 381,932 <sup>1</sup> | 381,932 <sup>1</sup> | 381,932 <sup>1</sup>   | 381,932 <sup>1</sup> | 381,932 <sup>1</sup> | 381,932 <sup>1</sup> |
| Nova Scotia.....          | 661,841 <sup>1</sup> | 661,841 <sup>1</sup> | 661,841 <sup>1</sup>   | 661,841 <sup>1</sup> | 644,256 <sup>1</sup> | 653,048 <sup>1</sup> |
| New Brunswick.....        | 666,766 <sup>1</sup> | 666,766 <sup>1</sup> | 666,766 <sup>1</sup>   | 693,040 <sup>1</sup> | 693,040 <sup>1</sup> | 693,040 <sup>1</sup> |
| Quebec.....               | 2,256,420            | 2,256,420            | 2,256,420              | 2,592,014            | 2,592,014            | 2,592,014            |
| Ontario.....              | 2,642,612            | 2,642,612            | 2,642,612              | 2,941,425            | 2,941,424            | 2,941,424            |
| Manitoba.....             | 1,500,214            | 1,508,591            | 6,478,619 <sup>2</sup> | 1,694,195            | 1,694,195            | 1,708,340            |
| Saskatchewan.....         | 2,047,935            | 2,063,295            | 1,938,295              | 2,112,803            | 2,112,803            | 2,128,889            |
| Alberta.....              | 1,657,188            | 1,576,685            | 1,670,435              | 1,743,159            | 1,743,159            | 1,757,317            |
| British Columbia.....     | 738,817              | 738,817              | 738,817                | 874,561              | 874,561              | 874,561              |
| <b>Totals.....</b>        | <b>12,553,725</b>    | <b>12,496,959</b>    | <b>17,435,737</b>      | <b>13,694,970</b>    | <b>13,677,384</b>    | <b>13,727,565</b>    |

<sup>1</sup>For the years 1928, 1929, 1930, 1931, 1932, 1933 and 1934, special grants, pending reconsideration of provincial subsidies, were granted to Nova Scotia, New Brunswick and Prince Edward Island as follows: Nova Scotia \$875,000, New Brunswick \$600,000, Prince Edward Island \$125,000 (not included in above table).

<sup>2</sup>\$4,822,843 of this amount was on account of readjustment of subsidy in lieu of Public Lands from 1870 to 1908, as provided for in the Manitoba Natural Resources Act, 1930.

17.—Total of Subsidy Allowances from July 1, 1867 to Mar. 31, 1934.

NOTE.—From p. 89 of the Public Accounts for 1934.

| Province.                 | Allowances for Government. | Allowances on basis of Population. | Special Grants. <sup>1</sup> | Interest on Debt Allowances. <sup>2</sup> | Total.             |
|---------------------------|----------------------------|------------------------------------|------------------------------|-------------------------------------------|--------------------|
|                           | \$                         | \$                                 | \$                           | \$                                        | \$                 |
| Prince Edward Island..... | 3,720,000                  | 5,225,441                          | 4,664,304                    | 2,564,056                                 | 16,173,802         |
| Nova Scotia.....          | 7,530,000                  | 23,312,010                         | 826,980                      | 3,182,711                                 | 34,851,700         |
| New Brunswick.....        | 6,890,000                  | 17,778,076                         | 9,780,000                    | 1,397,635                                 | 35,845,711         |
| Quebec.....               | 9,280,000                  | 82,431,533                         | —                            | 5,196,792                                 | 96,908,325         |
| Ontario.....              | 9,680,000                  | 102,078,988                        | —                            | 4,886,104                                 | 116,645,092        |
| Manitoba.....             | 6,735,000                  | 16,748,585                         | 19,894,233                   | 13,350,620                                | 56,728,438         |
| Saskatchewan.....         | 5,496,667                  | 15,303,613                         | 17,031,250                   | 11,755,875                                | 49,587,405         |
| Alberta.....              | 5,156,666                  | 11,945,643                         | 15,093,750                   | 11,755,875                                | 43,951,934         |
| British Columbia.....     | 6,130,000                  | 12,177,367                         | 7,300,000                    | 6,846,300                                 | 27,453,668         |
| <b>Totals.....</b>        | <b>60,618,333</b>          | <b>287,001,256</b>                 | <b>74,590,517</b>            | <b>55,935,965</b>                         | <b>478,146,075</b> |

<sup>1</sup>Compensation for lands and allowances for buildings.

<sup>2</sup>Allowances in lieu of debt.

**Loans to Provinces.**—All of the provincial loans recently advanced by the Dominion have been made to the western provinces under the authority of relief legislation beginning with the Unemployment and Farm Relief Act 1931 and these have been secured by treasury bills of the respective provinces, bearing interest in the neighbourhood of 5 p.c. The sum total of such loans outstanding as at Mar. 31, 1934, was \$51,314,180.

In addition to these, however, there were also outstanding at that date \$10,168,688 of housing loans, being the balance of loans made to the provinces in the years following the Great War, on the authority of Orders in Council passed in 1918 and 1919, and of the Appropriation Acts of 1920 and 1921. Upon these loans the province of Ontario repaid the whole of the advances in 1928 and the other provinces concerned have in most cases reduced their indebtedness from year to year.

Table 18 gives details of the loans made by the Dominion Government to the provinces concerned on account of relief expenditures, and Table 19 shows the amounts outstanding as at Mar. 31 of each of the years 1920-34, on account of loans made for housing.

**18.—Loans to Provincial Governments Under the Relief Acts, by Provinces, fiscal years ended Mar. 31, 1932-35.**

| Province and Item.                                                        | 1932.             | 1933.             | 1934.             | 1935.             |
|---------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|
|                                                                           | \$                | \$                | \$                | \$                |
| <b>Manitoba—</b>                                                          |                   |                   |                   |                   |
| Loans during year.....                                                    | 4,331,486         | 6,476,711         | 2,384,000         | 4,127,000         |
| Less cash repayments and credits of Dominion's share of expenditures..... | 1,542,674         | 1,304,807         | 110,717           | 1,252,369         |
| Net loans for year.....                                                   | 2,788,812         | 5,171,904         | 2,273,283         | 2,874,631         |
| Net loans outstanding at beginning of year.....                           | —                 | 2,788,812         | 7,960,716         | 10,233,999        |
| <b>Totals Outstanding Mar. 31.....</b>                                    | <b>2,788,812</b>  | <b>7,960,716</b>  | <b>10,233,999</b> | <b>13,108,630</b> |
| <b>Saskatchewan—</b>                                                      |                   |                   |                   |                   |
| Loans during year.....                                                    | 12,034,934        | 9,734,337         | 6,960,066         | 11,434,811        |
| Less cash repayments and credits of Dominion's share of expenditures..... | 1,100,593         | 2,155,782         | 1,490,826         | 1,293,797         |
| Net loans for year.....                                                   | 10,934,341        | 7,578,555         | 5,469,240         | 10,141,014        |
| Net loans outstanding at beginning of year.....                           | —                 | 10,934,341        | 18,512,896        | 23,982,137        |
| <b>Totals Outstanding Mar. 31.....</b>                                    | <b>10,934,341</b> | <b>18,512,896</b> | <b>23,982,137</b> | <b>34,123,151</b> |
| <b>Alberta—</b>                                                           |                   |                   |                   |                   |
| Loans during year.....                                                    | 5,142,586         | 2,840,000         | 4,068,524         | 3,895,000         |
| Less cash repayments and credits of Dominion's share of expenditures..... | 1,044,846         | 937,959           | 17,781            | 1,968,524         |
| Net loans for year.....                                                   | 4,097,740         | 1,902,041         | 4,050,743         | 1,926,476         |
| Net loans outstanding at beginning of year.....                           | —                 | 4,097,740         | 5,999,781         | 10,050,524        |
| <b>Totals Outstanding Mar. 31.....</b>                                    | <b>4,097,740</b>  | <b>5,999,781</b>  | <b>10,050,524</b> | <b>11,977,000</b> |
| <b>British Columbia—</b>                                                  |                   |                   |                   |                   |
| Loans during year.....                                                    | 5,784,165         | 5,382,500         | 3,535,000         | 8,225,000         |
| Less cash repayments and credits of Dominion's share of expenditures..... | 971,041           | 4,469,864         | 2,213,240         | 258,286           |
| Net loans for year.....                                                   | 4,813,124         | 912,636           | 1,321,760         | 7,966,714         |
| Net loans outstanding at beginning of year.....                           | —                 | 4,813,124         | 5,725,760         | 7,047,520         |
| <b>Totals Outstanding Mar. 31.....</b>                                    | <b>4,813,124</b>  | <b>5,725,760</b>  | <b>7,047,520</b>  | <b>15,014,234</b> |
| <b>Grand Totals.....</b>                                                  | <b>22,634,017</b> | <b>38,199,153</b> | <b>51,314,180</b> | <b>74,223,015</b> |



**19.—Loans to Provincial Governments Outstanding, on Account of Housing, by Provinces, as at Mar. 31, 1920-34.**

| As at<br>Mar. 31.— | Prince<br>Edward<br>Island. | Nova<br>Scotia. | New<br>Brun-<br>swick. | Quebec.   | Ontario.  | Manitoba. | British<br>Columbia. | Total.     |
|--------------------|-----------------------------|-----------------|------------------------|-----------|-----------|-----------|----------------------|------------|
| \$                 | \$                          | \$              | \$                     | \$        | \$        | \$        | \$                   | \$         |
| 1920.....          | —                           | —               | 600,000                | 60,000    | 8,750,000 | 1,580,000 | 750,000              | 11,740,000 |
| 1921.....          | —                           | 600,000         | 1,220,000              | 1,146,700 | 8,750,000 | 1,580,000 | 1,361,500            | 14,658,200 |
| 1922.....          | —                           | 1,100,000       | 1,525,000              | 2,312,885 | 8,750,000 | 1,975,000 | 1,701,500            | 17,364,385 |
| 1923.....          | 50,000                      | 1,537,000       | 1,525,000              | 4,391,617 | 9,350,000 | 1,975,000 | 1,701,500            | 20,530,117 |
| 1924.....          | 50,000                      | 1,537,000       | 1,525,000              | 7,359,590 | 9,350,000 | 1,975,000 | 1,701,500            | 23,498,090 |
| 1925.....          | 50,000                      | 1,537,000       | 1,525,000              | 7,355,305 | 9,350,000 | 1,975,000 | 1,701,500            | 23,493,805 |
| 1926.....          | 50,000                      | 1,537,000       | 1,462,000              | 7,352,018 | 9,350,000 | 1,975,000 | 1,701,500            | 23,427,518 |
| 1927.....          | 50,000                      | 1,537,000       | 1,308,000              | 7,337,843 | 9,350,000 | 1,825,000 | 1,701,500            | 23,109,343 |
| 1928.....          | 50,000                      | 1,362,000       | 1,250,000              | 7,317,403 | —         | 1,660,000 | 1,701,500            | 13,340,903 |
| 1929.....          | 50,000                      | 1,212,000       | 1,198,000              | 7,304,203 | —         | 1,600,000 | 1,701,500            | 13,065,703 |
| 1930.....          | 50,000                      | 1,077,000       | 1,136,000              | 5,796,703 | —         | 1,550,000 | 1,701,500            | 11,311,203 |
| 1931.....          | 36,500                      | 1,017,000       | 1,057,000              | 5,384,688 | —         | 1,475,000 | 1,701,500            | 10,671,688 |
| 1932.....          | 35,000                      | 937,000         | 988,000                | 5,384,688 | —         | 1,475,000 | 1,701,500            | 10,521,188 |
| 1933.....          | 34,000                      | 877,000         | 910,000                | 5,384,688 | —         | 1,475,000 | 1,701,500            | 10,382,188 |
| 1934.....          | 33,000                      | 822,000         | 860,500                | 5,384,688 | —         | 1,367,000 | 1,701,500            | 10,168,688 |

**Subsection 6.—National Debt.**

The gross national debt of Canada on Mar. 31, 1914, was \$544,391,369, as against assets of \$208,394,519, leaving a net debt of \$335,996,850. Comparatively small as was this debt, it was a debt incurred almost altogether either for public works of general utility which, like the Intercolonial and transcontinental railways and the canal system, remained assets, though perhaps not realizable assets of the nation, or was expended as subsidies to enterprises, which, like the Canadian Pacific Railway, though not government-owned, assisted greatly in extending the area of settlement as well as the productive and, therefore, the taxable capacity of the country. Broadly speaking, it was a debt incurred for productive purposes. Also, it was mainly held outside the country, the principal of the Dominion funded debt payable in London being \$302,842,485 on Mar. 31, 1914, as against only \$717,453 payable in Canada.

The great changes brought about in our national debt during the 20 years from 1914 to 1934 have been: (1) the enormous increase in net debt from \$335,996,850 to \$2,729,978,141; (2) the gross debt, having been largely incurred for war purposes, is not represented by corresponding assets; (3) the debt is now mainly held in Canada, \$2,083,307,268 being payable in Canada at Mar. 31, 1934.

**Recent Conversions and other National Debt Operations.\***—In 1931, extensive conversion and other operations in connection with the national debt were carried out as follows:—

On April 1, 1931, the 5 p.c. Public Service Loan of \$25,000,000 fell due in New York and was redeemed out of the proceeds of the loan negotiated in New York in the previous October, effecting a net annual saving in interest of \$155,000.

In May, a conversion offer was made in connection with the \$1,084,823,350 of funded debt maturing between then and Nov. 1, 1934. The opening offer was to convert \$250,000,000, the Minister of Finance reserving the right to increase the amount at any time before May 23. The basis was an exchange of a bond of any of the following four maturities for new twenty-five-year 4½ p.c. bonds, dating from

\* For information *re* loans raised and conversion operations carried on between 1914 and 1930 see pp. 842-843 of the 1933 Year Book.

the maturity of the old bonds; the 5 p.c. bonds maturing Oct. 1, 1931, or the 5½ p.c. bonds maturing Nov. 1, 1932, 1933 and 1934, respectively. One of the terms of the new bonds was that at any time after fifteen years the Dominion, on giving sixty days notice, had the right to call any series for redemption. There was attached to each of the new bonds one or more talons representing the difference in interest to maturity of the former series. The amount was over-subscribed more than two and a half times, the conversions being: 5 p.c. War Loan maturing Oct. 1, 1931, \$43,125,700; 5½ p.c. Renewal Loan maturing Nov. 1, 1932, \$37,523,200; 5½ p.c. Victory Loan maturing Nov. 1, 1933, \$276,688,100; 5½ p.c. Victory Loan maturing Nov. 1, 1934, \$289,693,300; total, \$647,030,300. As from Nov. 1, 1934, the annual saving effected by these operations is \$6,254,674.

In November, a public offering of \$150,000,000 5 p.c. bonds was made. The loan was named "Dominion of Canada National Service Loan, 1931". The bonds were offered for public subscription in two maturities; one for five years, the price being 99·25; one for ten years at 99, or on a yield basis of 5·17 p.c. and 5·13 p.c. respectively. The loan was over-subscribed, the books being closed twelve days before the advertised closing date. Subscriptions totalled \$221,198,200, the division being \$79,535,200 maturing in 1936; \$141,663,000 maturing in 1941.

In 1932-33, one-year 4½ p.c. treasury bills were sold to the chartered banks at par to the amount of \$50,000,000 on Aug. 1. One-year 4 p.c. treasury notes to the amount of \$60,000,000 dated Oct. 1 were sold in New York at 99·28. On Nov. 1, 1932, a further \$35,000,000 of 4 p.c. 2-year treasury notes were sold at par to the chartered banks. Further, \$25,000,000 of 3-year 4 p.c. bonds and \$56,191,000 of 20-year 4 p.c. bonds dated Oct. 15, were sold to the public, the 3-year bonds being sold at 99·20 to yield 4·28 p.c. and the 20-year bonds at 93·45 to yield 4½ p.c. The 3-year issue was over-subscribed several times.

The fiscal year 1933-34 was notable for the re-entry of the Dominion into the London market in September 1933 after an interval of about 18 years.

On May 31, \$40,000,000 6-month treasury bills, bearing interest at 3½ p.c., were sold to the chartered banks at 99·8773 for \$30,000,000 on the day of issue and at 99·8995 for \$10,000,000 on July 3. The cost to the Government was 3½ p.c.

On July 1, \$60,000,000 of 4 p.c. treasury notes were sold in New York at 98·875 and on Aug. 1, \$50,000,000 of 3½ p.c. 1-year treasury bills were exchanged at par with the banks for the 4½ p.c. treasury bill issue of Aug. 1, 1932.

A 4 p.c. registered stock issue amounting to £15,000,000 was sold in London on Sept. 1, 1933. This loan, which carries a sinking fund requirement of ½ of 1 p.c. per annum, was immediately over-subscribed more than five times.

A domestic loan of \$225,000,000 was offered to the public in three maturities—2-year, 6-year and 12-year—on Oct. 15, 1933. The 2-year issue was priced at 99·50 to yield 3·75 p.c.; the 6-year at 99·00 to yield 4·19 p.c., and the 12-year at 96·50 to yield 4·38 p.c. The outstanding bonds of the 1918 Victory Loan which matured on Nov. 1, 1933, were accepted at par in exchange for the two earlier maturities of this new issue, but were accepted at 100¼ for the 12-year maturity. All but \$30,679,350 of the 1918 Victory Loan was converted. The 6-month treasury bills of May and July, 1933, amounting to \$50,000,000, were also accepted

in exchange for the new bonds at a price, including interest, of 101.284. The response was such that the subscription lists were closed ten days before the official closing date.

An issue of treasury bills amounting to \$15,000,000 was sold by public tender on Mar. 1, 1934, \$2,450,000 maturing after 3 months and sold at a price which made the cost to the Government 2.85 p.c.; and \$12,550,000 maturing after 8 months and sold at a cost to the Government of 3.12 p.c.

This \$15,000,000 treasury bill issue of Mar. 1 was duplicated on April 18, 1934, by another for the same amount, also sold by public tender: \$1,600,000 maturing July 1 was sold at a cost to the Government of 2.41 p.c.; \$13,400,000 maturing Oct. 1 was sold at a cost of 2.71 p.c.

On May 1, 1934, a 3½ p.c. registered stock issue for £10,000,000 was sold in London. It matures in 1950-55 and carries a sinking fund provision of ½ p.c. per annum.

A treasury bill issue of \$50,000,000 carrying 2½ p.c. was put out Aug. 1, 1934, to replace the 3½ p.c. issue for the same amount maturing on the same date.

On Sept. 1, 1934, a banking credit was arranged with the Chase National Bank of New York for \$50,000,000 for 1 year at 2 p.c., to be used in retiring the 4 p.c. treasury notes called for redemption in New York on Sept. 1. The maturity date of these notes was originally Oct. 1, 1934.

The maturing bonds of the 1934 Victory Loan amounting to \$222,216,850 were provided for by the issue of a domestic loan of \$250,000,000 on Oct. 15, 1934. These bonds were put out in four maturities with their price and yields as follows:—2-year bonds, 98.90 and interest, to yield 2.57 p.c.; 5-year bonds, 98.15 and interest, to yield 2.90 p.c.; 8-year bonds, 97.00 and interest, to yield 3.43 p.c.; 15-year bonds, 96.50 and interest, to yield, 3.81 p.c.

The surrender value of the 1934 5½ p.c. bonds was par on subscriptions for the 2- and 5-year issues, 100½ for 8-year bonds and 100¼ for 15-year bonds. A total of \$154,829,800 of 1934 5½ p.c. bonds was converted out of an outstanding amount of \$222,216,850.

On Nov. 1, 1934, \$20,000,000 of treasury bills were sold by public tender, \$1,600,000 of 3-month bills were sold at a cost to the Government of 2.35 p.c. while the balance of \$18,400,000 of 6-month bills were sold at a cost of 2.47 p.c.

**Statistics of National Debt.**—Summary statistics of the national debt of Canada as at Confederation and at the end of each fiscal year thereafter down to 1934 are given in Table 20, while details of the active assets and of the gross liabilities as at the end of the past twelve fiscal years are given in Tables 21 and 22 respectively. Further, details of the funded debt, showing the various issues of bonds, the annual interest charges and the place at which principal and interest is payable, are given as at Mar. 31, 1934, in Table 23. From this it appears that the total payable in London at that date was \$384,668,136, in New York \$300,000,000, in Canada \$2,083,307,268 and in Canada and New York \$90,661,100. Thus three-quarters of the funded debt of the Dominion was payable within the Dominion itself, and as a consequence the interest payable outside of Canada was a comparatively small item.



**20.—Summary of the Public Debt of Canada and Interest Payments Thereon,  
July 1, 1867 to Mar. 31, 1934.**

| Fiscal Yr. | Gross Debt.   | Total Assets.            | Net Debt.     | Net Debt per capita. <sup>7</sup> | Increase or Decrease of Debt during the Year. <sup>1</sup> | Interest Paid on Debt. | Interest Received from Active Assets. | Interest Paid per capita. <sup>7</sup> |
|------------|---------------|--------------------------|---------------|-----------------------------------|------------------------------------------------------------|------------------------|---------------------------------------|----------------------------------------|
|            | \$            | \$                       | \$            | \$                                | \$                                                         | \$                     | \$                                    | \$                                     |
| 1867.      | 93,046,052    | 17,317,410               | 75,728,642    | 21.87                             | —                                                          | —                      | —                                     | 1.28                                   |
| 1868.      | 96,896,666    | 21,139,531               | 75,757,135    | 21.58                             | 28,493                                                     | 4,501,568              | 126,420                               | 1.38                                   |
| 1869.      | 112,361,998   | 36,502,679               | 75,859,319    | 21.28                             | 102,184                                                    | 4,907,014              | 313,021                               | 1.39                                   |
| 1870.      | 115,993,706   | 37,783,964               | 78,209,742    | 21.58                             | 2,350,423                                                  | 5,047,054              | 383,956                               | 1.40                                   |
| 1871.      | 115,492,683   | 37,786,165               | 77,706,518    | 21.06                             | -503,225                                                   | 5,165,304              | 554,384                               | 1.40                                   |
| 1872.      | 122,400,179   | 40,213,107               | 82,187,072    | 21.89                             | 4,480,554                                                  | 5,257,231              | 488,402                               | 1.36                                   |
| 1873.      | 129,743,432   | 29,894,970               | 99,848,462    | 26.10                             | 17,661,390                                                 | 5,209,206              | 396,404                               | 1.47                                   |
| 1874.      | 141,163,551   | 32,838,587               | 108,324,964   | 27.81                             | 8,476,502                                                  | 5,724,436              | 610,863                               | 1.67                                   |
| 1875.      | 151,663,402   | 35,655,024               | 116,008,378   | 29.34                             | 7,683,414                                                  | 6,590,790              | 840,887                               | 1.60                                   |
| 1876.      | 161,204,688   | 36,653,174               | 124,551,514   | 31.07                             | 8,543,136                                                  | 6,400,902              | 798,906                               | 1.67                                   |
| 1877.      | 174,675,835   | 41,440,526               | 133,235,309   | 32.78                             | 8,683,795                                                  | 6,797,227              | 717,684                               | 1.71                                   |
| 1878.      | 174,957,269   | 34,595,199               | 140,362,070   | 34.07                             | 7,126,761                                                  | 7,048,884              | 605,774                               | 1.72                                   |
| 1879.      | 179,483,871   | 36,493,684               | 142,990,187   | 34.17                             | 2,628,117                                                  | 7,194,734              | 592,500                               | 1.76                                   |
| 1880.      | 194,634,441   | 42,182,852               | 152,451,589   | 35.83                             | 9,461,402                                                  | 7,773,869              | 834,793                               | 1.77                                   |
| 1881.      | 199,861,537   | 44,465,757               | 155,395,780   | 35.93                             | 2,944,191                                                  | 7,594,145              | 751,513                               | 1.77                                   |
| 1882.      | 205,365,252   | 51,703,601               | 153,661,651   | 35.12                             | -1,734,129                                                 | 7,740,804              | 914,009                               | 1.73                                   |
| 1883.      | 202,159,104   | 43,692,390               | 158,466,714   | 35.77                             | 4,805,063                                                  | 7,668,552              | 1,001,193                             | 1.72                                   |
| 1884.      | 242,482,416   | 60,320,566               | 182,161,850   | 40.60                             | 23,695,136                                                 | 7,700,181              | 986,698                               | 2.08                                   |
| 1885.      | 264,703,607   | 68,295,915               | 196,407,692   | 43.29                             | 14,245,842                                                 | 9,419,482              | 1,997,936                             | 2.21                                   |
| 1886.      | 273,164,341   | 80,005,234               | 193,159,107   | 48.72                             | 26,751,415 <sup>2</sup>                                    | 10,137,009             | 2,299,079                             | 2.09                                   |
| 1887.      | 273,187,626   | 45,872,851               | 227,314,775   | 49.14                             | 4,155,668                                                  | 9,682,929              | 990,887                               | 2.10                                   |
| 1888.      | 284,513,842   | 49,982,484               | 234,531,358   | 50.13                             | 7,216,583                                                  | 9,823,313              | 932,025                               | 2.15                                   |
| 1889.      | 287,722,063   | 50,192,021               | 237,530,042   | 50.23                             | 2,998,684                                                  | 10,148,932             | 1,305,392                             | 2.02                                   |
| 1890.      | 286,112,295   | 48,579,083               | 237,531,212   | 49.70                             | 3,170                                                      | 9,656,841              | 1,082,271                             | 1.98                                   |
| 1891.      | 289,890,230   | 52,090,199               | 237,800,031   | 49.38                             | 275,819                                                    | 9,584,137              | 1,077,228                             | 2.00                                   |
| 1892.      | 295,333,274   | 54,201,840               | 241,131,434   | 49.01                             | 3,322,403                                                  | 9,763,978              | 1,086,420                             | 1.99                                   |
| 1893.      | 300,054,525   | 58,373,485               | 241,681,040   | 49.44                             | 549,606                                                    | 9,806,888              | 1,150,167                             | 2.05                                   |
| 1894.      | 308,348,023   | 62,164,994               | 246,183,029   | 50.35                             | 6,891,898                                                  | 10,466,294             | 1,336,047                             | 2.07                                   |
| 1895.      | 318,048,755   | 67,973,828               | 250,074,927   | 50.95                             | 5,422,506                                                  | 10,520,430             | 1,370,001                             | 2.08                                   |
| 1896.      | 325,717,537   | 67,220,104               | 258,497,433   | 51.06                             | 3,041,163                                                  | 10,645,663             | 1,443,004                             | 2.03                                   |
| 1897.      | 332,530,131   | 70,991,535               | 261,538,596   | 51.01                             | 2,417,803                                                  | 10,516,768             | 1,513,455                             | 2.07                                   |
| 1898.      | 338,375,984   | 74,419,585               | 263,956,399   | 50.86                             | 2,317,048                                                  | 10,855,112             | 1,590,445                             | 2.02                                   |
| 1899.      | 345,160,903   | 78,887,456               | 266,273,447   | 50.08                             | -779,640                                                   | 10,689,645             | 1,683,051                             | 2.01                                   |
| 1900.      | 346,206,980   | 80,213,173               | 266,493,807   | 49.99                             | 2,986,197                                                  | 10,807,955             | 1,784,334                             | 1.96                                   |
| 1901.      | 354,732,433   | 86,252,429               | 268,480,004   | 49.48                             | 3,349,088                                                  | 10,975,935             | 1,892,224                             | 1.91                                   |
| 1902.      | 366,358,477   | 94,529,387               | 271,829,090   | 46.29                             | -10,222,101 <sup>3</sup>                                   | 11,068,139             | 2,020,853                             | 1.71                                   |
| 1903.      | 361,344,098   | 99,737,109               | 261,606,989   | 44.77                             | -739,270 <sup>4</sup>                                      | 11,128,637             | 2,236,256                             | 1.71                                   |
| 1904.      | 364,962,512   | 104,094,793              | 260,867,719   | 44.36                             | 5,356,448                                                  | 10,630,115             | 2,105,031                             | 1.75                                   |
| 1905.      | 377,678,580   | 115,454,413              | 262,224,167   | 43.32                             | 818,810                                                    | 10,814,697             | 2,140,312                             | 1.65                                   |
| 1906.      | 392,269,680   | 125,226,703              | 267,042,977   | 41.13                             | -3,371,117                                                 | 6,716,771              | 1,235,746                             | 1.66                                   |
| 1907.      | 379,966,826   | 116,294,966              | 263,671,860   | 41.06                             | 14,289,000                                                 | 10,973,597             | 1,255,649                             | 1.71                                   |
| 1908.      | 408,207,158   | 130,246,198              | 277,960,960   | 47.64                             | 45,960,419                                                 | 11,604,584             | 2,256,633                             | 1.87                                   |
| 1909.      | 478,535,427   | 154,605,148              | 323,930,279   | 48.12                             | 12,338,267                                                 | 13,098,161             | 2,807,465                             | 1.74                                   |
| 1910.      | 470,663,046   | 134,394,500              | 336,268,546   | 47.18                             | 3,773,506                                                  | 12,535,851             | 1,668,773                             | 1.66                                   |
| 1911.      | 474,941,487   | 134,899,435              | 340,042,052   | 46.00                             | -122,591                                                   | 12,259,397             | 1,281,317                             | 1.71                                   |
| 1912.      | 508,338,592   | 168,419,131              | 339,919,461   | 41.18                             | -25,617,836                                                | 12,605,882             | 1,430,511                             | 1.87                                   |
| 1913.      | 483,232,555   | 168,930,930              | 314,301,625   | 42.64                             | 21,695,225                                                 | 12,893,505             | 1,964,541                             | 1.97                                   |
| 1914.      | 544,391,369   | 208,394,519              | 335,996,850   | 56.31                             | 113,379,233                                                | 15,736,743             | 2,980,247                             | 2.68                                   |
| 1915.      | 700,473,814   | 251,097,731              | 449,376,083   | 76.88                             | 165,780,088                                                | 21,421,585             | 3,358,210                             | 4.44                                   |
| 1916.      | 936,987,802   | 321,831,631              | 615,156,171   | 99.08                             | 264,030,127                                                | 35,802,567             | 3,094,012                             | 5.87                                   |
| 1917.      | 1,382,003,268 | 502,816,970              | 879,186,298   | 189.45                            | 312,697,765                                                | 47,845,585             | 4,466,724                             | 9.32                                   |
| 1918.      | 1,863,335,890 | 671,451,836              | 1,191,884,053 | 262.84                            | 382,646,970                                                | 77,431,432             | 7,421,002                             | 12.57                                  |
| 1919.      | 2,676,635,725 | 1,102,104,692            | 1,574,531,033 | 266.37                            | 674,337,591                                                | 107,527,089            | 17,086,981                            | 15.88                                  |
| 1920.      | 3,041,529,587 | 792,660,963 <sup>5</sup> | 2,248,868,624 | 272.31                            | 81,256,817                                                 | 135,247,849            | 21,961,513                            | 15.30                                  |
| 1921.      | 2,902,482,117 | 561,603,135 <sup>6</sup> | 2,340,878,984 | 264.41                            | 35,993,594                                                 | 136,237,872            | 16,465,303                            | 14.90                                  |
| 1922.      | 2,902,347,137 | 480,211,335 <sup>6</sup> | 2,422,135,802 | 260.08                            | -345,589                                                   | 134,789,604            | 11,312,328                            | 14.50                                  |
| 1923.      | 2,888,827,237 | 435,050,368 <sup>6</sup> | 2,453,776,869 | 212.34                            | 31,641,067                                                 | 137,892,735            | 12,527,565                            | 13.46                                  |
| 1924.      | 2,819,610,470 | 401,827,195 <sup>6</sup> | 2,417,783,275 | 217.94                            | 83,847,978                                                 | 121,289,584            | 9,430,125                             | 11.69                                  |
| 1925.      | 2,818,066,523 | 400,628,837 <sup>6</sup> | 2,417,437,686 | 226.14                            | 114,234,236                                                | 121,151,106            | 9,321,251                             | 12.64                                  |
| 1926.      | 2,768,779,184 | 379,048,085 <sup>6</sup> | 2,389,731,099 | 243.68                            | 220,634,654                                                | 134,999,069            | 11,220,989                            | 12.90                                  |
| 1927.      | 2,726,298,717 | 378,464,347 <sup>6</sup> | 2,347,834,370 | 251.96                            | 133,497,314                                                | 139,725,417            | 11,148,231                            |                                        |
| 1928.      | 2,677,137,243 | 380,287,010 <sup>6</sup> | 2,296,850,233 |                                   |                                                            |                        |                                       |                                        |
| 1929.      | 2,647,033,973 | 421,529,268 <sup>6</sup> | 2,225,504,705 |                                   |                                                            |                        |                                       |                                        |
| 1930.      | 2,644,586,411 | 366,822,452 <sup>6</sup> | 2,277,763,959 |                                   |                                                            |                        |                                       |                                        |
| 1931.      | 2,610,265,698 | 348,653,762 <sup>6</sup> | 2,261,611,937 |                                   |                                                            |                        |                                       |                                        |
| 1932.      | 2,831,743,563 | 455,897,390 <sup>6</sup> | 2,375,846,172 |                                   |                                                            |                        |                                       |                                        |
| 1933.      | 2,996,366,065 | 399,885,839 <sup>6</sup> | 2,596,480,226 |                                   |                                                            |                        |                                       |                                        |
| 1934.      | 3,141,042,097 | 411,063,957 <sup>6</sup> | 2,729,978,141 |                                   |                                                            |                        |                                       |                                        |

<sup>1</sup>The minus sign (—) denotes a decrease.

<sup>2</sup>This amount includes \$10,199,520, for which land was taken from the Canadian Pacific Ry. Co.

<sup>3</sup>This amount includes \$3,305,450, caused by the settlement of accounts with Ontario and Quebec.

<sup>4</sup>This amount takes into account \$5,397,503, allowed to Ontario and Quebec under 47 Vict., c. 6.

<sup>5</sup>Active assets only.

<sup>6</sup>Nine months.

<sup>7</sup>The per capita figures are worked out on the basis of the estimates of population given on p. 164.



21.—Details of the Active Assets of the Public Debt of Canada, as at Mar. 31, 1923-34.

| Item.                                                                | 1923.              | 1924.              | 1925.              | 1926.              |
|----------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|
|                                                                      | \$                 | \$                 | \$                 | \$                 |
| Cash on hand and in banks.....                                       | 4,256,042          | 43,612,756         | 27,068,121         | 24,811,236         |
| Specie reserve.....                                                  | 130,150,335        | 103,427,038        | 123,976,668        | 99,093,810         |
| Advances to banks, provinces, etc.....                               | 75,433,038         | 92,418,747         | 88,922,335         | 93,678,049         |
| Advances to Imperial and Foreign Govern-<br>ments <sup>1</sup> ..... | 106,540,470        | 40,071,243         | 36,633,691         | 36,495,929         |
| Advances to Soldier Settlement Board.....                            | 83,325,152         | 86,728,789         | 87,749,947         | 87,536,094         |
| Miscellaneous current accounts.....                                  | 35,345,331         | 35,568,622         | 36,278,075         | 37,432,967         |
| <b>Totals.....</b>                                                   | <b>435,050,368</b> | <b>401,827,195</b> | <b>400,628,837</b> | <b>379,048,085</b> |

| Item.                                                                | 1927.              | 1928.              | 1929.              | 1930.              |
|----------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|
|                                                                      | \$                 | \$                 | \$                 | \$                 |
| Cash on hand and in banks.....                                       | 22,182,119         | 45,829,382         | 82,410,885         | 27,991,597         |
| Specie reserve.....                                                  | 100,935,933        | 95,352,703         | 60,791,334         | 65,927,474         |
| Advances to banks, provinces, etc.....                               | 97,452,299         | 114,752,859        | 166,080,660        | 140,578,126        |
| Advances to Imperial and Foreign Govern-<br>ments <sup>1</sup> ..... | 35,985,138         | 31,249,720         | 31,049,720         | 30,834,720         |
| Advances to Soldier Settlement Board.....                            | 84,149,967         | 69,410,199         | 58,175,573         | 57,036,174         |
| Miscellaneous current accounts.....                                  | 37,758,891         | 23,692,147         | 23,021,087         | 44,454,361         |
| <b>Totals.....</b>                                                   | <b>378,464,347</b> | <b>380,287,010</b> | <b>421,529,268</b> | <b>366,822,452</b> |

| Item.                                     | 1931.              | 1932.              | 1933.              | 1934.              |
|-------------------------------------------|--------------------|--------------------|--------------------|--------------------|
|                                           | \$                 | \$                 | \$                 | \$                 |
| Cash on hand and in banks.....            | 44,599,432         | 57,352,841         | 1,555,870          | 9,874,579          |
| Specie reserve.....                       | 81,457,889         | 64,660,602         | 69,875,517         | 71,406,030         |
| Advances to banks, provinces, etc.....    | 111,454,050        | 173,183,733        | 185,226,291        | 191,920,712        |
| Advances to Foreign Governments.....      | 30,609,720         | 30,494,720         | 30,494,720         | 30,494,720         |
| Advances to Soldier Settlement Board..... | 48,150,885         | 47,804,050         | 47,711,084         | 45,219,132         |
| Miscellaneous current accounts.....       | 32,381,786         | 82,401,415         | 65,022,350         | 62,148,783         |
| <b>Totals.....</b>                        | <b>348,653,762</b> | <b>455,897,391</b> | <b>399,883,838</b> | <b>411,063,956</b> |

<sup>1</sup>The advances to the Imperial Government were nearly all paid off in the fiscal year 1923-24, while the small balance was paid off in 1927-28.

22.—Details of the Gross Liabilities of Canada, as at Mar. 31, 1923-34.

| Item.                                            | 1923.                | 1924.                | 1925.                | 1926.                |
|--------------------------------------------------|----------------------|----------------------|----------------------|----------------------|
|                                                  | \$                   | \$                   | \$                   | \$                   |
| Funded Debt <sup>1</sup> payable in—             |                      |                      |                      |                      |
| London.....                                      | 304,770,796          | 301,786,046          | 274,447,490          | 270,962,177          |
| Canada.....                                      | 1,937,031,954        | 1,895,088,856        | 1,895,112,087        | 1,920,128,841        |
| New York.....                                    | 210,933,000          | 210,932,000          | 300,874,000          | 280,874,000          |
| Dominion notes.....                              | 242,657,765          | 216,625,004          | 206,712,088          | 182,583,404          |
| Savings banks.....                               | 31,791,106           | 34,211,540           | 33,611,133           | 32,830,544           |
| Temporary loans.....                             | 95,432,000           | 91,520,000           | 28,196,769           | 201,000              |
| Bank Note Circulation Redemption Fund.....       | 6,454,150            | 6,225,878            | 6,338,346            | 5,894,254            |
| Trust funds.....                                 | 19,621,238           | 19,327,244           | 19,307,853           | 18,665,350           |
| Province accounts.....                           | 9,624,153            | 9,624,153            | 9,623,817            | 9,623,817            |
| Insurance and Superannuation Funds—              |                      |                      |                      |                      |
| Government Annuities.....                        | 5,892,605            | 7,151,398            | 8,469,666            | 10,021,706           |
| Civil Service Superannuation and Retirement..... | 12,033,053           | 13,994,246           | 15,776,559           | 18,658,658           |
| Civil Service Insurance.....                     | 1,816,073            | 2,251,592            | 2,756,866            | 3,291,484            |
| Returned Soldiers' Insurance.....                | 969,710              | 2,061,174            | 3,216,293            | 4,231,207            |
| Miscellaneous.....                               | 9,799,634            | 8,811,339            | 13,623,556           | 10,812,743           |
| <b>Totals.....</b>                               | <b>2,888,827,237</b> | <b>2,819,610,470</b> | <b>2,818,066,523</b> | <b>2,768,779,185</b> |

<sup>1</sup>In all cases, figures for funded debt less sinking funds are given.

## 22.—Details of the Gross Liabilities of Canada, as at Mar. 31, 1923-34—concluded.

| Item.                                            | 1927.                | 1928.                | 1929.                | 1930.                |
|--------------------------------------------------|----------------------|----------------------|----------------------|----------------------|
|                                                  | \$                   | \$                   | \$                   | \$                   |
| Funded Debt <sup>1</sup> payable in—             |                      |                      |                      |                      |
| London.....                                      | 267,649,036          | 264,230,350          | 260,768,038          | 257,185,700          |
| Canada.....                                      | 1,941,852,161        | 1,870,049,325        | 1,823,839,934        | 1,804,977,029        |
| New York.....                                    | 225,894,000          | 225,879,000          | 220,457,800          | 165,965,900          |
| Dominion notes.....                              | 172,167,639          | 188,631,490          | 204,501,217          | 174,326,618          |
| Savings banks.....                               | 31,922,043           | 31,103,776           | 28,375,770           | 26,086,036           |
| Temporary loans.....                             | 201,000              | 201,000              | —                    | —                    |
| Bank Note Circulation Redemption Fund.....       | 5,849,030            | 5,929,219            | 6,098,583            | 6,363,362            |
| Trust funds.....                                 | 18,460,169           | 19,755,617           | 20,337,483           | 20,976,277           |
| Province accounts.....                           | 9,623,816            | 9,623,817            | 9,623,817            | 9,623,817            |
| Insurance and Superannuation Funds—              |                      |                      |                      |                      |
| Government Annuities.....                        | 11,446,119           | 14,719,484           | 18,369,100           | 20,612,250           |
| Civil Service Superannuation and Retirement..... | 22,328,541           | 26,536,524           | 31,156,345           | 36,122,214           |
| Civil Service Insurance.....                     | 3,840,028            | 4,418,855            | 5,058,479            | 5,719,709            |
| Returned Soldiers' Insurance.....                | 5,090,042            | 5,964,247            | 6,866,911            | 7,968,683            |
| Miscellaneous.....                               | 9,975,093            | 10,094,539           | 11,580,496           | 8,658,813            |
| <b>Totals.....</b>                               | <b>2,726,298,717</b> | <b>2,677,137,243</b> | <b>2,647,033,973</b> | <b>2,544,686,411</b> |

| Item.                                            | 1931.                | 1932.                | 1933.                | 1934.                |
|--------------------------------------------------|----------------------|----------------------|----------------------|----------------------|
|                                                  | \$                   | \$                   | \$                   | \$                   |
| Funded Debt <sup>1</sup> payable in—             |                      |                      |                      |                      |
| London.....                                      | 253,512,033          | 249,677,848          | 246,063,448          | 315,278,938          |
| Canada.....                                      | 1,800,264,602        | 2,012,210,212        | 2,015,169,479        | 2,085,735,622        |
| Canada and New York.....                         | —                    | —                    | 90,651,107           | 90,666,100           |
| New York.....                                    | 265,896,300          | 240,971,700          | 300,014,900          | 300,025,900          |
| Dominion notes.....                              | 141,066,257          | 157,388,180          | 180,926,882          | 172,617,922          |
| Savings banks.....                               | 24,750,227           | 23,919,677           | 23,920,915           | 23,158,919           |
| Temporary loans.....                             | —                    | 15,000,000           | —                    | —                    |
| Bank Note Circulation Redemption Fund.....       | 6,788,162            | 6,811,793            | 6,584,813            | 6,486,355            |
| Trust funds.....                                 | 20,329,745           | 18,752,801           | 18,525,396           | 18,271,120           |
| Province accounts.....                           | 9,623,817            | 9,623,817            | 9,623,817            | 9,623,817            |
| Insurance and Superannuation Funds—              |                      |                      |                      |                      |
| Government Annuities.....                        | 23,306,955           | 26,582,544           | 29,163,903           | 35,023,476           |
| Civil Service Superannuation and Retirement..... | 41,326,474           | 46,158,779           | 50,274,250           | 53,676,366           |
| Civil Service Insurance.....                     | 6,373,014            | 7,053,128            | 7,770,524            | 8,468,386            |
| Returned Soldiers' Insurance.....                | 9,249,236            | 10,352,976           | 11,291,512           | 12,313,279           |
| Miscellaneous.....                               | 7,778,276            | 7,240,108            | 6,385,719            | 9,695,897            |
| <b>Totals.....</b>                               | <b>2,610,265,698</b> | <b>2,831,743,563</b> | <b>2,996,366,665</b> | <b>3,141,042,097</b> |

<sup>1</sup>In all cases, figures for funded debt less sinking funds are given.

## 23.—Funded Debt and Treasury Bills of the Dominion, Interest Thereon, Date of Maturity, Rate of Interest and Centres at Which Loans are Payable, as at Mar. 31, 1934.

| Date of Maturity.        | Name of Loan.                     | Rate. | Where Payable.           | Amount of Loan Outstanding. | Annual Interest Payable Thereon. |
|--------------------------|-----------------------------------|-------|--------------------------|-----------------------------|----------------------------------|
|                          |                                   | p.c.  |                          | \$                          | \$                               |
| 1934—June 1 <sup>1</sup> | Loan of 1884—£4,822,028-13-3..... | 3½    | London.....              | 23,467,206                  | 821,352                          |
| July 1                   | Debenture Stock—School Lands..... | 5     | Canada.....              | 33,293,470                  | 1,664,674                        |
| Aug. 1                   | One-Year Treasury Bills.....      | 3½    | Canada.....              | 50,000,000                  | 1,937,504                        |
| Oct. 1 <sup>2</sup>      | Fifteen-Month Notes.....          | 4     | New York.....            | 60,000,000                  | 2,400,000                        |
| Nov. 1                   | Victory Loan, 1919.....           | 5½    | Canada.....              | 222,216,850                 | 12,221,927                       |
| Nov. 1                   | Two-Year Notes.....               | 4     | Canada.....              | 35,000,000                  | 1,400,000                        |
| 1935—Aug. 1              | Bond Loan, 1915-35.....           | 5     | Canada and New York..... | 874,000                     | 43,700                           |
| Oct. 15                  | Loan of 1932.....                 | 4     | Canada.....              | 25,000,000                  | 1,000,000                        |
| Oct. 15                  | Refunding Loan, 1933.....         | 3½    | Canada.....              | 89,393,000                  | 3,128,755                        |

For footnotes see end of table, p. 911.

**23.—Funded Debt and Treasury Bills of the Dominion, Interest Thereon, Date of Maturity, Rate of Interest and Centres at Which Loans are Payable, as at Mar. 31, 1934—concluded.**

| Date of Maturity. | Name of Loan.                                                              | Rate. | Where Payable.         | Amount of Loan Outstanding. | Annual Interest Payable Thereon. |
|-------------------|----------------------------------------------------------------------------|-------|------------------------|-----------------------------|----------------------------------|
|                   |                                                                            | p.c.  |                        | \$                          | \$                               |
| 1936—Feb. 1       | Loan of 1926-36.....                                                       | 4½    | New York....           | 40,000 000                  | 1,800,000                        |
| Nov. 15           | National Service Loan, 1931.....                                           | 5     | Canada.....            | 79,535,200                  | 3,976,760                        |
| 1937—Mar. 1       | War Loan, 1917-37.....                                                     | 5     | Canada and New York.   | 89,787,100                  | 4,489,355                        |
| Dec. 1            | Victory Loan, 1917.....                                                    | 5½    | Canada.....            | 236,299,800                 | 12,996,489                       |
| 1938—July 1       | Loan of 1888—£1,658,471-18-11.....                                         | 3     | London.....            | 8,071,230                   | 242,137                          |
| July 1            | Loan of 1892—£3,750,000-0-0.....                                           | 3     | London.....            | 18,250,000                  | 547,500                          |
| July 1            | Loan of 1894—£2,250,000-0-0.....                                           | 3     | London.....            | 10,950,000                  | 328,500                          |
| July 1            | C.P.R. Land Grant Loan—£3,093,700-0-0                                      | 3½    | London.....            | 15,056,007                  | 526,960                          |
| 1939—Oct. 15      | Refunding Loan, 1933.....                                                  | 4     | Canada.....            | 47,269,500                  | 1,890,780                        |
| 1940—Sept. 1      | Refunding Loan, 1925.....                                                  | 4½    | Canada.....            | 75,000,000                  | 3,375,000                        |
| 1941—Nov. 15      | National Service Loan, 1931.....                                           | 5     | Canada.....            | 141,663,000                 | 7,083,150                        |
| 1943—Oct. 15      | Refunding Loan, 1923.....                                                  | 5     | Canada.....            | 147,000,100                 | 7,350,005                        |
| 1944—Oct. 15      | Refunding Loan, 1924.....                                                  | 4½    | Canada.....            | 50,000,000                  | 2,250,000                        |
| 1945—Oct. 15      | Refunding Loan, 1933.....                                                  | 4     | Canada.....            | 88,337,500                  | 3,533,500                        |
| 1946—Feb. 1       | Refunding Loan, 1926.....                                                  | 4½    | Canada.....            | 45,000,000                  | 2,025,000                        |
| 1947—Oct. 1       | Loan of 1897—£1,004,421-14-2.....                                          | 2½    | London.....            | 4,888,186                   | 122,205                          |
| 1950—July 1       | Loan of 1930-50—£28,162,775-11-0.....                                      | 3½    | London.....            | 137,058,841                 | 4,797,059                        |
| 1952—May 1        | Loan of 1922-52.....                                                       | 5     | New York....           | 100,000,000                 | 5,000,000                        |
| Oct. 15           | Loan of 1932.....                                                          | 4     | Canada.....            | 56,191,000                  | 2,247,640                        |
| 1956—Nov. 1       | Conversion Loan, 1931.....                                                 | 4½    | Canada.....            | 43,125,700                  | 1,940,657                        |
| 1957—Nov. 1       | Conversion Loan, 1931.....                                                 | 4½    | Canada.....            | 37,523,200                  | 1,688,544                        |
| 1958—Sept. 1      | Loan of 1933—£15,000,000-0-0.....                                          | 4     | London.....            | 73,000,000                  | 2,920,000                        |
| Nov. 1            | Conversion Loan, 1931.....                                                 | 4½    | Canada.....            | 276,687,600                 | 12,450,942                       |
| 1959—Nov. 1       | Conversion Loan, 1931.....                                                 | 4½    | Canada.....            | 289,693,300                 | 15,933,131                       |
| 1960—Oct. 1       | Loan of 1940-60—£19,300,000-0-0.....                                       | 4     | London.....            | 93,926,667                  | 3,757,067                        |
| 1960—Oct. 1       | Loan of 1930-60.....                                                       | 4     | New York....           | 100,000,000                 | 4,000,000                        |
| 1934—June 1       | Treasury Bills.....                                                        | —     | Canada.....            | 2,450,000                   | —                                |
| Nov. 1            | Treasury Bills.....                                                        | —     | Canada.....            | 12,550,000                  | —                                |
| Demand            | Dominion Stock, Issue A.....                                               | 6     | Canada.....            | 4,000                       | 240                              |
|                   | Dominion Stock, Issue B.....                                               | 3½    | Canada.....            | 13,400                      | 469                              |
|                   | Dominion Stock, Issue C.....                                               | 3½    | Canada.....            | 48,667                      | 1,703                            |
|                   | Compensation to Seigneurs.....                                             | 6     | Canada.....            | 11,827                      | 710                              |
|                   | Compensation to Townships.....                                             | 5     | Canada.....            | 153                         | 8                                |
|                   | <b>Totals.....</b>                                                         |       |                        | <b>2,858,636,504</b>        | <b>131,893,421</b>               |
|                   | Payable in Canada.....                                                     |       | \$2,083,307,268        |                             |                                  |
|                   | Payable in Canada and New York.....                                        |       | 90,661,100             |                             |                                  |
|                   | Payable in New York.....                                                   |       | 300,000,000            |                             |                                  |
|                   | Payable in London.....                                                     |       | 384,668,136            |                             |                                  |
|                   |                                                                            |       | <b>\$2,858,636,504</b> |                             |                                  |
|                   | Less Bonds and Stocks of the above Loans held as Sinking Funds.....        |       | 69,406,434             |                             |                                  |
|                   |                                                                            |       | <b>2,789,230,070</b>   |                             |                                  |
|                   | Funded Debt overdue but not presented for payment up to Mar. 31, 1934..... |       | 2,476,490              |                             |                                  |
|                   | <b>Net Funded Debt and Treasury Bills....</b>                              |       | <b>\$2,791,706,560</b> |                             |                                  |

<sup>1</sup> On giving six months notice or on dates as shown. <sup>2</sup> Subject to redemption on July 1, 1934, or on the first business day of each month thereafter until maturity on thirty days notice. <sup>3</sup> Subject to redemption on Oct. 15, 1943, or on any subsequent interest date on sixty days notice. <sup>4</sup> Subject to redemption on or after May 1, 1942, on giving sixty days notice. <sup>5</sup> Subject to redemption on Oct. 15, 1947, or any subsequent interest date on sixty days notice. <sup>6</sup> Subject to redemption on Nov. 1, 1946, or any subsequent interest date on sixty days notice. <sup>7</sup> Subject to redemption on Nov. 1, 1947, or any subsequent interest date on sixty days notice. <sup>8</sup> Subject to redemption on Sept. 1, 1953, or any subsequent interest date on three months notice. <sup>9</sup> Subject to redemption on Nov. 1, 1948, or any subsequent interest date on sixty days notice. <sup>10</sup> Subject to redemption on Nov. 1, 1949, or any subsequent interest date on sixty days notice. <sup>11</sup> On or after Oct. 1, 1940, on giving three months notice. <sup>12</sup> Subject to redemption on Oct. 1, 1950, or any subsequent interest date on sixty days notice.

**The Interest-Bearing Debt of Canada.**—Something of the extent of the burden of national debt being carried by the Canadian people may be realized from the fact that, for the fiscal year ended Mar. 31, 1934, the interest charges on the total interest-bearing debt amounted to about 54 p.c. of the total receipts from taxation and over 44 p.c. of the receipts from all sources.

Before the Great War, interest rates were comparatively moderate, but the unprecedented expenditure of the world's capital in that gigantic struggle led, in all the participating countries, to the raising of enormous loans at comparatively high rates of interest, which in many cases still have to be paid until refunding becomes possible under the terms of the contracts made between the nations and their creditors. Thus, in Canada, the average rate of interest paid upon the direct interest-bearing obligations of the nation, which was only 3.368 p.c. at Mar. 31, 1913, rose to 5.164 p.c. at Mar. 31, 1922, and fell gradually to 4.580 p.c. at Mar. 31, 1934. Details of the interest-bearing debt of Canada, and the interest charges thereon, as at March 31 of the years from 1913 to 1934, are given in Table 24.

**24.—The Interest-Bearing Debt, the Annual Interest Charge Thereon and the Average Rate of Interest, as at Mar. 31, 1913-34.**

| Fiscal Yr. | Bonds, Debentures and Treasury Bills. | Annual Interest Charges on Bonds, Debentures and Treasury Bills. | Average Interest Rate on Bonds, Debentures and Treasury Bills. | Savings Bank Deposits, Trust and other Funds. | Annual Interest on Savings Bank Deposits and other Funds. | Total Interest-bearing Debt. <sup>1</sup> | Annual Interest Charge. | Average Rate of Interest. |
|------------|---------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------|-------------------------------------------|-------------------------|---------------------------|
|            | \$                                    | \$                                                               | p.c.                                                           | \$                                            | \$                                                        | \$                                        | \$                      | p.c.                      |
| 1913.      | 260,869,037                           | 8,973,746                                                        | 3.439                                                          | 91,735,123                                    | 2,904,287                                                 | 352,604,160                               | 11,878,033              | 3.368                     |
| 1914.      | 311,833,272                           | 11,162,047                                                       | 3.579                                                          | 93,031,928                                    | 2,957,544                                                 | 404,865,200                               | 14,119,591              | 3.487                     |
| 1915.      | 358,659,932                           | 13,075,447                                                       | 3.645                                                          | 91,910,510                                    | 2,935,881                                                 | 450,570,442                               | 16,011,328              | 3.554                     |
| 1916.      | 508,900,366                           | 20,499,696                                                       | 4.035                                                          | 92,240,955                                    | 2,960,002                                                 | 600,241,321                               | 23,459,698              | 3.908                     |
| 1917.      | 893,208,877                           | 39,098,579                                                       | 4.376                                                          | 96,885,192                                    | 3,114,315                                                 | 990,094,069                               | 42,212,894              | 4.263                     |
| 1918.      | 1,472,098,608                         | 71,121,368                                                       | 4.831                                                          | 95,796,899                                    | 3,096,532                                                 | 1,567,895,507                             | 74,217,900              | 4.733                     |
| 1919.      | 2,035,218,097                         | 102,218,489                                                      | 5.022                                                          | 100,636,102                                   | 3,441,803                                                 | 2,135,854,199                             | 105,660,292             | 4.947                     |
| 1920.      | 2,596,816,821                         | 134,559,302                                                      | 5.181                                                          | 107,038,317                                   | 4,275,480                                                 | 2,703,855,138                             | 138,834,782             | 5.134                     |
| 1921.      | 2,520,997,021                         | 130,416,007                                                      | 5.173                                                          | 107,345,348                                   | 4,429,302                                                 | 2,628,342,369                             | 134,845,309             | 5.130                     |
| 1922.      | 2,564,587,671                         | 133,482,113                                                      | 5.204                                                          | 105,379,439                                   | 4,399,661                                                 | 2,669,967,110                             | 137,881,774             | 5.164                     |
| 1923.      | 2,547,105,821                         | 131,476,511                                                      | 5.161                                                          | 106,763,391                                   | 4,581,156                                                 | 2,653,869,212                             | 136,007,667             | 5.125                     |
| 1924.      | 2,504,033,820                         | 128,571,337                                                      | 5.134                                                          | 110,113,766                                   | 4,626,715                                                 | 2,614,147,586                             | 133,198,052             | 5.092                     |
| 1925.      | 2,503,763,169                         | 125,928,071                                                      | 5.029                                                          | 113,943,282                                   | 4,758,780                                                 | 2,617,706,451                             | 130,686,627             | 4.996                     |
| 1926.      | 2,484,410,336                         | 125,108,738                                                      | 5.035                                                          | 119,205,393                                   | 4,977,889                                                 | 2,603,615,729                             | 130,686,851             | 5.015                     |
| 1927.      | 2,439,340,736                         | 123,399,911                                                      | 5.058                                                          | 126,310,527                                   | 5,274,429                                                 | 2,565,651,263                             | 128,674,340             | 4.980                     |
| 1928.      | 2,377,581,086                         | 119,479,400                                                      | 5.025                                                          | 136,485,482                                   | 5,721,330                                                 | 2,514,066,568                             | 125,200,730             | 4.977                     |
| 1929.      | 2,325,413,986                         | 116,843,934                                                      | 5.024                                                          | 145,780,369                                   | 6,156,036                                                 | 2,471,194,355                             | 122,999,970             | 4.967                     |
| 1930.      | 2,250,837,286                         | 112,942,215                                                      | 5.017                                                          | 154,997,435                                   | 6,572,018                                                 | 2,405,834,721                             | 119,514,233             | 4.928                     |
| 1931.      | 2,320,832,286                         | 115,491,955                                                      | 4.976                                                          | 163,994,443                                   | 6,969,151                                                 | 2,484,826,729                             | 122,461,106             | 4.923                     |
| 1932.      | 2,579,238,724                         | 128,188,969                                                      | 4.970                                                          | 136,356,977                                   | 5,522,579                                                 | 2,715,595,701                             | 133,711,548             | 4.850                     |
| 1933.      | 2,715,977,874                         | 132,866,543                                                      | 4.892                                                          | 144,176,675                                   | 5,858,850                                                 | 2,860,154,549                             | 138,725,393             | 4.850                     |
| 1934.      | 2,858,624,524                         | 131,893,421                                                      | 4.614                                                          | 154,137,868                                   | 6,093,937                                                 | 3,012,762,392                             | 137,987,358             | 4.580                     |

<sup>1</sup>The total of interest-bearing debt, as here given, includes bonds purchased and held by the Treasury for sinking funds.

**Guaranteed Debt of the Dominion.**—Besides the direct debt of the Dominion, already dealt with, there are also large indirect obligations, arising mainly out of the guarantee of securities by the Dominion of the railway lines which now form the Canadian National Railways, and the subsequent extensions thereof. Together with these are other smaller indirect obligations, originating in the Government's guarantees of the bonds of the Canadian National Steamship services and of the bonds of its Harbour Commissions, issued in the main for harbour improvements. Statistics showing the growth of these indirect obligations since 1914 are given in Table 25, while Table 26 shows the obligations as they existed on Mar. 31, 1934.



**25.—Securities Guaranteed by the Dominion Government (Amounts Held by the Public), as at Mar. 31, 1914-34.**

| Fiscal Year. | Railways,<br>Guaranteed<br>as to Principal<br>and Interest. | Railways,<br>Guaranteed<br>as to Interest<br>only. | Canadian<br>National<br>Steamships. | Harbour<br>Commissions. | Guarantees<br>under<br>Relief<br>Acts. <sup>1</sup> | Total.                     |
|--------------|-------------------------------------------------------------|----------------------------------------------------|-------------------------------------|-------------------------|-----------------------------------------------------|----------------------------|
|              | \$                                                          | \$                                                 | \$                                  | \$                      | \$                                                  | \$                         |
| 1914.....    | 94,738,584                                                  | —                                                  | —                                   | —                       | —                                                   | 94,738,584                 |
| 1915.....    | 114,644,310                                                 | —                                                  | —                                   | —                       | —                                                   | 114,644,310                |
| 1916.....    | 135,546,098                                                 | —                                                  | —                                   | —                       | —                                                   | 135,546,098                |
| 1917.....    | 135,546,098                                                 | —                                                  | —                                   | —                       | —                                                   | 135,546,098                |
| 1918.....    | 135,546,098                                                 | —                                                  | —                                   | —                       | —                                                   | 135,546,098                |
| 1919.....    | 130,436,098                                                 | —                                                  | —                                   | —                       | —                                                   | 130,436,098                |
| 1920.....    | 130,436,098                                                 | —                                                  | —                                   | —                       | —                                                   | 130,436,098                |
| 1921.....    | 197,545,125                                                 | —                                                  | —                                   | —                       | —                                                   | 197,545,125                |
| 1922.....    | 248,987,789                                                 | —                                                  | —                                   | —                       | —                                                   | 248,987,789                |
| 1923.....    | 237,878,762                                                 | 216,207,142                                        | —                                   | —                       | —                                                   | 454,085,904                |
| 1924.....    | 309,628,762                                                 | 216,207,142                                        | —                                   | —                       | —                                                   | 525,835,904                |
| 1925.....    | 365,915,762                                                 | 216,207,142                                        | —                                   | —                       | —                                                   | 582,122,904                |
| 1926.....    | 364,415,762                                                 | 216,207,142                                        | —                                   | —                       | —                                                   | 580,622,904                |
| 1927.....    | 397,795,002                                                 | 216,207,142                                        | —                                   | 4,000,000               | —                                                   | 618,002,144                |
| 1928.....    | 440,224,186                                                 | 216,207,142                                        | 828,789                             | 9,467,165               | —                                                   | 666,727,282                |
| 1929.....    | 472,709,509                                                 | 216,207,142                                        | 7,936,486                           | 17,355,118              | —                                                   | 714,208,255                |
| 1930.....    | 590,091,292                                                 | 216,207,142                                        | 9,400,000                           | 21,335,118              | —                                                   | 837,033,552                |
| 1931.....    | 707,474,852                                                 | 216,207,142                                        | 9,400,000                           | 21,835,118              | —                                                   | 954,917,112                |
| 1932.....    | 753,080,146                                                 | 216,207,142                                        | 9,400,000                           | 21,835,118              | —                                                   | 1,000,522,406 <sup>1</sup> |
| 1933.....    | 748,874,239                                                 | 216,207,142                                        | 9,400,000                           | 21,670,472              | 28,272,301                                          | 1,024,424,154 <sup>1</sup> |
| 1934.....    | 746,035,434                                                 | 216,207,142                                        | 9,400,000                           | 21,634,472              | 93,296,073                                          | 1,086,573,121 <sup>1</sup> |

<sup>1</sup> Unstated advances re wheat marketing are not included.

**26.—Securities Guaranteed by the Dominion Government, as at Mar. 31, 1934.<sup>1</sup>**

| Security.                                                                               | Amount<br>of<br>Guarantee<br>Authorized. | Amount<br>Outstanding<br>and<br>Held by the<br>Public as<br>at Mar. 31,<br>1934. | Where Payable.               |
|-----------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------|------------------------------|
|                                                                                         | \$                                       | \$                                                                               |                              |
| <b>Railway Securities Guaranteed as to Principal and Interest—</b>                      |                                          |                                                                                  |                              |
| 1. Canadian Northern Ry. Co., 3 p.c. deb. stock, due 1953, £1,923,287.....              | 9,359,997                                | 9,359,997                                                                        | London.                      |
| 2. Canadian Northern Ry. Co., 3½ p.c. deb. stock, due 1958, £1,622,586-19-9.....        | 7,896,590                                | 7,896,557 <sup>2</sup>                                                           |                              |
| 3. Canadian Northern Ontario Ry. Co., 3½ p.c. deb. stock, due 1961, £7,350,000.....     | 35,770,000                               | 34,229,997                                                                       | London.                      |
| 4. Canadian Northern Alberta Ry. Co., 3½ p.c. deb. stock, due 1960, £647,260-5-6.....   | 3,150,000                                | 3,149,999                                                                        | London.                      |
| 5. Grand Trunk Pacific Ry. Co., 3 p.c. bonds, due 1962, £14,000,000.....                | 68,040,000                               | 34,992,000                                                                       | London, New York and Canada. |
| 6. Canadian Northern Alberta Ry. Co., 3½ p.c. deb. stock, due 1962, £733,561-12-10..... | 3,570,000                                | —                                                                                | London and Canada.           |
| 7. Canadian Northern Ry. Co., 4 p.c. deb. stock and bonds, due 1934.....                | 45,000,000                               | 17,060,333                                                                       | London, New York and Canada. |
| 8. Grand Trunk Pacific Ry. Co., 4 p.c. bonds due 1962, £3,280,000.....                  | 15,940,800                               | 8,440,848                                                                        | London, New York and Canada. |
| 9. Canadian Northern Ry. Co., 7 p.c. bonds, due 1940.....                               | 25,000,000                               | 23,779,000                                                                       | New York.                    |
| 10. Grand Trunk Ry. Co., 7 p.c. bonds, due 1940....                                     | 25,000,000                               | 23,740,000                                                                       | New York.                    |
| 11. Canadian Northern Ry. Co., 6½ p.c. bonds, due 1946.....                             | 25,000,000                               | 24,238,000                                                                       | New York.                    |
| 12. Grand Trunk Ry. Co., 6 p.c. bonds, due 1936....                                     | 25,000,000                               | 24,220,000                                                                       | New York.                    |
| 13. Canadian National Ry. Co., 5 p.c. serial equipment bonds, 1923-38.....              | 22,500,000                               | 6,750,000                                                                        | Canada.                      |

<sup>1</sup> Railway securities guaranteed as to principal and interest to the value of \$58,157,952 were held by the Minister of Finance as at Mar. 31, 1934, but these are not outstanding in the same sense as those in the hands of the public.

<sup>2</sup> Part of this issue is payable in Canada; part in London and balance in London and Canada.

**26.—Securities Guaranteed by the Dominion Government, as at Mar. 31, 1934<sup>1</sup>—**  
continued.

| Security.                                                                                                               | Amount<br>of<br>Guarantee<br>Authorized. | Amount<br>Outstanding<br>and<br>Held by the<br>Public as<br>at Mar. 31,<br>1934. | Where Payable.                                                       |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------|
|                                                                                                                         | \$                                       | \$                                                                               |                                                                      |
| <b>Railway Securities Guaranteed as to Principal and Interest—concluded.</b>                                            |                                          |                                                                                  |                                                                      |
| 14. Canadian National Ry. Co., 5 p.c. bonds, due 1954.....                                                              | 50,000,000                               | 50,000,000                                                                       | Canada.                                                              |
| 15. Canadian National Ry. Co., 4½ p.c. bonds, due 1954.....                                                             | 26,000,000                               | 26,000,000                                                                       | New York and Canada.                                                 |
| 16. Canadian Northern Ry. Co., 4½ p.c. bonds, due 1935.....                                                             | 17,000,000                               | 17,000,000                                                                       | New York and Canada.                                                 |
| 17. Canadian National Ry. Co., 1927, 2 p.c. guar. deb. stock, £7,176,801.....                                           | 34,927,098                               | 27,178,703                                                                       | London.                                                              |
| 18. Canadian National Ry. Co., 4½ p.c. gold bonds, due 1957.....                                                        | 65,000,000                               | 65,000,000                                                                       | New York and Canada.                                                 |
| 19. Canadian National Ry. Co., 4½ p.c. gold bonds, due 1968.....                                                        | 35,000,000                               | 35,000,000                                                                       | London, New York and Canada.                                         |
| 20. Canadian National Ry. Co., 5 p.c. gold bonds, due July 1, 1969.....                                                 | 60,000,000                               | 60,000,000                                                                       | London, New York and Canada.                                         |
| 21. Canadian National Ry. Co., 5 p.c. gold bonds, due Oct. 1, 1969.....                                                 | 60,000,000                               | 60,000,000                                                                       | London, New York and Canada.                                         |
| 22. Canadian National Ry. Co., 5 p.c. gold bonds, due 1970.....                                                         | 18,000,000                               | 18,000,000                                                                       | London, New York and Canada.                                         |
| 23. Canadian National Ry. Co., 4½ p.c. gold bonds, due 1955.....                                                        | 50,000,000                               | 50,000,000                                                                       | London, New York and Canada.                                         |
| 24. Canadian National Ry. Co., 4½ p.c. gold bonds, due 1956.....                                                        | 70,000,000                               | 70,000,000                                                                       | London, New York and Canada.                                         |
| 25. Canadian National Ry. Co., 4½ p.c. gold bonds, due 1951.....                                                        | 50,000,000                               | 50,000,000                                                                       | London, New York and Canada.                                         |
| <b>Totals.....</b>                                                                                                      | <b>847,154,485</b>                       | <b>746,035,434</b>                                                               |                                                                      |
| <b>Railway Securities Guaranteed as to Interest only—</b>                                                               |                                          |                                                                                  |                                                                      |
| <b>26. Grand Trunk Ry. Acquisition Guarantees—</b>                                                                      |                                          |                                                                                  |                                                                      |
| Grand Trunk 4 p.c. perp. guar. stock, £12,500,000.....                                                                  | 60,833,333                               | 60,833,333                                                                       | London.                                                              |
| Grand Trunk 5 p.c. perp. deb. stock, £4,270,375.....                                                                    | 20,782,492                               | 20,782,492                                                                       | London.                                                              |
| Great Western 5 p.c. perp. deb. stock, £2,723,080.....                                                                  | 13,252,323                               | 13,252,323                                                                       | London.                                                              |
| Grand Trunk 4 p.c. perp. deb. stock, £24,624,455.....                                                                   | 119,839,014                              | 119,839,014                                                                      | London.                                                              |
| Northern Ry. of Canada, 4 p.c. perp. deb. stock, £308,215.....                                                          | 1,499,980                                | 1,499,980                                                                        | London.                                                              |
| <b>Totals.....</b>                                                                                                      | <b>216,207,142</b>                       | <b>216,207,142</b>                                                               |                                                                      |
| <b>Other Securities Guaranteed as to Principal and Interest—</b>                                                        |                                          |                                                                                  |                                                                      |
| 27. Harbour Commissioners of Montreal, Montreal South Shore Bridge 5 p.c. bonds due 1969.....                           | 19,500,000                               | 19,000,000                                                                       | London, New York and Canada.                                         |
| 28. Canadian National (West Indies) Steamships Ltd., 5 p.c. bonds, due 1955.....                                        | 10,000,000                               | 9,400,000                                                                        | London, New York and Canada.                                         |
| 29. Saint John Harbour Commission—<br>(a) Bonded indebtedness of the city of Saint John, assumed by the Commission..... | 1,467,165                                | 1,266,519                                                                        | \$219,000 payable in London, New York and Canada; balance in Canada. |
| (b) Debentures of the Commission issued to the city of Saint John, due 1952.....                                        | 667,953                                  | 667,953                                                                          | Canada.                                                              |
| 30. New Westminster Harbour Commissioners 4½ p.c. debentures due 1948.....                                              | 700,000                                  | 700,000                                                                          | New York and Canada.                                                 |
| <b>Totals.....</b>                                                                                                      | <b>32,335,118</b>                        | <b>31,034,472</b>                                                                |                                                                      |

<sup>1</sup> Railway securities guaranteed as to principal and interest to the value of \$58,157,952 were held by the Minister of Finance as at Mar. 31, 1934, but these are not outstanding in the same sense as those in the hands of the public.

## 26.—Securities Guaranteed by the Dominion Government, as at Mar. 31, 1934—conc.

| Security.                                                                               | Amount<br>of<br>Guarantee<br>Authorized. | Amount<br>Outstanding<br>and<br>Held by the<br>Public as<br>at Mar. 31,<br>1934. | Where Payable. |
|-----------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------|----------------|
| <b>Relief Act Guarantees—</b>                                                           | <b>\$</b>                                | <b>\$</b>                                                                        |                |
| 31. Bank Advances, <i>re</i> Beauharnois Light, Heat and Power Company.....             | 15,538,500                               | 14,105,559                                                                       | —              |
| 32. Bank Advances, <i>re</i> Province of Manitoba Savings Office.....                   | 12,442,400                               | 10,844,853                                                                       | —              |
| 33. Bank Advances, <i>re</i> Government of Newfoundland                                 | 625,000                                  | 625,000                                                                          | —              |
| 34. Bank Advances, <i>re</i> Canadian Pacific Railway Company.....                      | 60,000,000                               | 60,000,000                                                                       | —              |
| 35. Bank Advances, <i>re</i> Algoma Steel Corporation (order for rails).....            | 660,000                                  | 660,000                                                                          | —              |
| 36. Bank Advances, <i>re</i> Dominion Steel and Coal Corporation (order for rails)..... | 1,100,000                                | 540,000                                                                          | —              |
| 37. Province of British Columbia Treasury Bills....                                     | 626,534                                  | 626,534                                                                          | —              |
| 38. Province of Manitoba Treasury Bills.....                                            | 5,894,127                                | 5,894,127                                                                        | —              |
| 39. Bank Advances, <i>re</i> Wheat Marketing.....                                       | Unstated                                 | Unstated                                                                         | —              |

## Section 2.—Provincial Public Finance.\*

Provincial Governments in Canada are in the position, under Section 118 of the British North America Act, 1867 (30 and 31 Vict., c. 3), and the British North America Act, 1907 (7 Edw. VII, c. 11), of having a considerable assured income in subsidies from the Dominion Treasury. Details of these payments are given for recent years in Tables 16 and 17 of this chapter. In addition, through their retention of ownership of their lands, minerals and other natural resources, the provinces which, by the voluntary action of their previously existing Governments entered Confederation, raise considerable revenues through land sales, sales of timber, mining royalties, leases of water powers, etc., while the Prairie Provinces formerly received from the Dominion special grants in lieu of land revenues. However, under legislation of 1930 whereby the Prairie Provinces were given control of their natural resources, all the provinces were placed on an equal footing in the administration of natural resources within their boundaries and as regards revenues accruing therefrom. Further, under Section 92 of the British North America Act, Provincial Legislatures are given authority to impose direct taxation within the province for provincial purposes and to borrow money on the sole credit of the province.

While the *laissez faire* school of political thought was predominant throughout the country, provincial receipts and expenditures were generally very moderate, as may be seen, both for individual provinces and for the provinces collectively, from Tables 29 and 30. From the commencement of the twentieth century, however, the Canadian public, more especially in Ontario and the West, began to demand increased services from their Governments, particularly in respect of education, sanitation, and public ownership and operation of public utilities. The performance of these functions necessitated increased revenues, which had in the main to be raised by taxation. Among the chief methods of taxation to be employed has been the taxation of corporations and estates, succession duties showing a considerably increased yield even within the comparatively short period of seventeen years from 1916 to 1933 covered by the statements compiled by the Finance Branch of the Bureau of Statistics.† The fact that provincial government is cheaper per head

\* Revised by Col. J. R. Munro, Chief of the Finance Branch of the Dominion Bureau of Statistics. This Branch issues detailed statements on Provincial Finance which may be obtained from the Dominion Statistician. For a list of these publications see Section 1 of Chapter XXIX.

† The succession duties collected by the provinces in 1933 amounted in the aggregate to \$13,104,687, as compared with \$1,020,972 as recently as 1904, or an increase of more than 12-fold in 29 years. The aggregate revenue raised by taxation of corporations, land, income and miscellaneous (exclusive of gasoline taxes, succession duties and amusement taxes), increased from \$7,217,548 in 1916 to \$32,771,095 in 1933, an increase of 354 p.c. in 17 years.

in the eastern provinces is evident from Table 30, which gives the per capita ordinary revenue and expenditure for various fiscal years from 1871 to 1933. This, however, is not to be taken as evidence that the larger services rendered to the public in the provinces west of the Ottawa river, are not worth what is being paid for them.

For the half-century subsequent to Confederation, the provincial accounts, published by each Government according to its own system of accounting, were quite incomparable as among the provinces, a fact much regretted by students of provincial public finance. Upon the creation of the Dominion Bureau of Statistics in 1918, its Finance Branch undertook the work of placing the various provincial public accounts on a comparable basis, correlating, for example, the revenue derived from succession duties, taxation of corporations, sales of public lands, royalties on forest, mineral and fisheries products, as well as the expenditures on such services as agriculture, civil government, education and public works. As the result of the Bureau's exhaustive analysis of the provincial public accounts, a summary statement of the ordinary receipts and expenditures of the Provincial Governments appeared for the first time in the 1919 Year Book. The various items of receipts and expenditures were classified under appropriate headings and a uniform terminology was adopted. From these statements it is possible to ascertain the amounts received and expended in each year under the respective headings for each province, as well as for the provinces collectively. The figures for the years 1916 to 1920 will be found on pp. 680-685 of the 1921 Year Book, those for 1921 on pp. 786-791 of the 1922-23 Year Book and those for 1922 to 1926 on pp. 836-841 of the 1927-28 Year Book.

The Bureau is at the present time making a more extensive analysis of the finances of the provinces, including capital and trust accounts as well as ordinary revenue and expenditure. This analysis is based on a uniform classification adopted at a recent conference between provincial treasury officials and the Dominion Bureau of Statistics.

The following data, in so far as 1933 is concerned, are given on the new uniform basis. Similar statistics covering 1932 have been secured from all provinces except Ontario. At the time of going to press the latter are undergoing revision but it is expected that they will be available in the near future.

#### **Subsection 1.—Provincial Revenues and Expenditures.**

**Ordinary Revenues and Expenditures.**—The total ordinary revenues of the nine provinces for their latest fiscal years for which final data are available, ended in 1933, were \$184,877,414 and in 1931 were \$179,143,480, as compared with \$188,154,910 in 1930, \$183,598,024 in 1929, \$132,398,729 in 1925, \$92,653,023 in 1920 and \$50,015,795 in 1916. The total ordinary expenditures in 1933 were \$200,528,217 and in 1931 were \$190,754,202, as compared with \$184,804,203 in 1930, \$177,542,192 in 1929, \$136,648,242 in 1925, \$88,250,675 in 1920 and \$53,826,219 in 1916. Thus the total ordinary revenues of the provinces show an increase of 270 p.c. in the short space of 17 years, while the total ordinary expenditures show an increase of 273 p.c. in the same period.

Considering individual provinces, the largest revenue for 1933 is that of Ontario, \$67,800,543, Quebec being next with \$33,324,760, and British Columbia third with \$23,333,115. As regards total expenditures for the same year, that of Ontario was highest, \$67,325,117, Quebec second with \$40,165,668, and British Columbia third with \$26,169,492. In 1933 British Columbia raised the largest revenue per head of population, *viz.*, \$32.77, while Quebec had the lowest, \$11.22. (For statistics of revenue and expenditure in 1933, see Tables 27 and 28, and for figures



showing the absolute and per capita growth of ordinary revenue and expenditure see Tables 29 and 30.)

**The Growth of Provincial Taxation.**—Whereas in earlier years the Dominion subsidies, together with the revenues arising out of the natural resources of the provinces and from fees for specific services rendered to the citizens, nearly sufficed to cover the whole expenses of government and rendered a resort to taxation for provincial purposes practically unnecessary in most of the provinces, the great increase in the functions of government since the commencement of the present century has put an end to this state of affairs. The aggregate amount of taxation for provincial purposes in the fiscal years prior to 1916 is unfortunately not available. Since that time provincial taxation has increased, according to the recently amended classification made in the Dominion Bureau of Statistics, from \$12,521,816 in 1916 to \$74,323,467 in 1933, exclusive of motor vehicle licences, liquor traffic profits, and other licences and permits, etc., an almost six-fold increase in 17 years.

The increase in the use of automobiles, both for commercial purposes and pleasure, is clearly demonstrated by the growing revenues from licences and permits issued by the Provincial Governments. In 1921 the total revenue of all provinces from automobile licensing amounted to \$7,857,751. It increased to \$9,290,900 in 1922, to \$13,020,607 in 1925, to \$15,822,339 in 1927, to \$21,735,827 in 1929, decreasing to \$20,321,307 in 1930, to \$19,952,575 in 1931, and increasing to \$20,050,667 in 1933.

The growth of revenue from the gasoline tax still further demonstrates the increasing use of motor vehicles. In 1923 Manitoba and Alberta were the only provinces showing a gasoline-tax revenue, the total being \$280,404. In 1924 the five provinces of Prince Edward Island, Quebec, Manitoba, Alberta and British Columbia collected gasoline-tax revenue to the amount of \$559,543, while in 1925 the same provinces, with Ontario added, collected \$3,521,388. In 1926 all provinces, except Saskatchewan, collected gasoline taxes to the amount of \$6,104,716, in 1927 to \$7,615,907 and in 1928 to \$9,151,735; thereafter, gasoline taxes were collected in all provinces and amounted to \$17,237,017 in 1929, \$20,956,590 in 1930, \$23,850,067 in 1931 and \$25,931,480 in 1933. The higher yields in recent years were partly due to higher rates of taxation.

The provincial revenues from the liquor traffic increased considerably between 1925 and 1930, but subsequently declined until 1933. The adoption of government control of the sale of liquor in one province after another, until now it exists in all but Prince Edward Island, where prohibition is still in force, has resulted in trading profits, licensing revenues, and permit fees, all of which have swelled the provincial revenues. Prior to the adoption of government control such revenues were not available to the provinces. In 1925 the total revenue collected by all provinces from the liquor traffic was \$8,964,824; in 1926 it was \$11,609,392, increasing to \$16,793,656 in 1927. In 1928, it amounted to \$22,755,212, in 1929 to \$27,599,687, in 1930 to \$33,248,056, in 1931 to \$32,128,693 and in 1933 to \$16,160,980. The method of control varies somewhat as between the provinces. In the majority of cases there are independent commissions or boards to administer the provincial Liquor Traffic Acts, but the accounting and trading profits are shown somewhat differently in the various provincial public accounts reports.\*

**Fiscal Years of the Provinces.**—The fiscal years of the provinces end as follows: P.E.I., Dec. 31; N.S., Sept. 30; N.B., Oct. 31; Que., June 30; Ont., Oct. 31; Man. and Sask., April 30; Alta. and B.C., Mar. 31.

\* See the report of the Dominion Bureau of Statistics on "The Control and Sale of Liquor in Canada".

## 27.—Ordinary Revenues of Provincial Governments

(AMENDED UNIFORM

NOTE.—For information as to when the fiscal years

| Item.                                               | Prince<br>Edward<br>Island. | Nova<br>Scotia.      | New<br>Brunswick. | Quebec     | Ontario.   |
|-----------------------------------------------------|-----------------------------|----------------------|-------------------|------------|------------|
|                                                     | \$                          | \$                   | \$                | \$         | \$         |
| Revenue from Dominion Government <sup>1</sup> . . . | 571,973                     | 1,569,840            | 1,354,737         | 2,680,087  | 3,078,003  |
| Taxation—                                           |                             |                      |                   |            |            |
| Real and personal property . . . . .                | 155,026                     | 538,646              | 89,134            | —          | 119,135    |
| Mining or mineral taxes . . . . .                   | —                           | 28,420               | —                 | 2,298      | 744,003    |
| Corporation . . . . .                               | 125,040                     | 801,558              | 509,321           | 3,960,246  | 6,249,872  |
| Succession duties . . . . .                         | 30,713                      | 262,925              | 208,586           | 3,070,138  | 8,081,322  |
| Income . . . . .                                    | —                           | —                    | —                 | —          | —          |
| Motor fuel or gasoline . . . . .                    | 189,050                     | 947,955              | 809,160           | 4,919,522  | 12,629,057 |
| Amusement tax . . . . .                             | 4,544                       | 131,102              | 59,188            | —          | 1,640,275  |
| Other taxes . . . . .                               | —                           | —                    | 49,789            | 927,860    | 721,462    |
| Totals, Taxation . . . . .                          | 504,373                     | 2,710,606            | 1,725,178         | 12,880,064 | 30,185,126 |
| Royalties, duties and dues . . . . .                | —                           | 376,838              | 293,231           | 1,861,416  | 1,073,883  |
| Licences and Permits—                               |                             |                      |                   |            |            |
| Motor vehicles . . . . .                            | 95,008                      | 1,027,474            | 758,590           | 5,027,355  | 7,218,734  |
| Other licences . . . . .                            | 1,705                       | 108,305              | 247,865           | 2,033,351  | 1,381,314  |
| Totals, Licences and Permits . . . . .              | 96,713                      | 1,135,779            | 1,006,455         | 7,060,706  | 8,600,048  |
| Fees . . . . .                                      | 34,164                      | 241,954              | 97,545            | 1,497,033  | 3,397,209  |
| Fines and penalties . . . . .                       | 478                         | 9,587                | 49,503            | 51,081     | 91,783     |
| Profits from Trading Activities—                    |                             |                      |                   |            |            |
| Liquor traffic control . . . . .                    | 30,000                      | 286,681              | 911,540           | 3,700,000  | 5,515,000  |
| Other activities . . . . .                          | —                           | 55,944               | —                 | —          | 120,420    |
| Totals, Profits from Trading Activities . . . . .   | 30,000                      | 342,625              | 911,540           | 3,700,000  | 5,635,420  |
| Interest . . . . .                                  | —                           | 920,676 <sup>4</sup> | —                 | 927,751    | 12,830,612 |
| Refunds of expenditure . . . . .                    | 10,579                      | —                    | 32,927            | 847,065    | 974,945    |
| Agriculture and Public Domain—                      |                             |                      |                   |            |            |
| Agriculture . . . . .                               | 1,604                       | 5,563                | —                 | —          | 307,299    |
| Lands . . . . .                                     | —                           | —                    | 3,708             | 28,613     | 23,387     |
| Mines and mining . . . . .                          | —                           | —                    | —                 | 4,967      | 2,089      |
| Forests, timber and woods . . . . .                 | —                           | —                    | —                 | 329,515    | —          |
| Water powers and storage . . . . .                  | —                           | 13,905               | —                 | 786,744    | 197,711    |
| Rentals and other . . . . .                         | —                           | —                    | —                 | 211,509    | 614,631    |
| Totals, Agriculture and Public Domain . . . . .     | 1,604                       | 19,468               | 3,708             | 1,361,348  | 1,145,117  |
| Institutional revenue . . . . .                     | 7,531                       | 556,350              | 198,890           | 95,485     | 142,489    |
| Miscellaneous . . . . .                             | 5,648                       | 129,740              | 26,368            | 362,724    | 645,903    |
| Totals, Ordinary Revenue . . . . .                  | 1,263,063                   | 8,013,463            | 5,700,082         | 33,324,760 | 67,800,543 |

<sup>1</sup> Subsidies, allowances and subventions. <sup>2</sup> Included in Real and Personal Property. <sup>3</sup> Allocated to a special trust fund for hospitals and public charities maintained by the Quebec Government separate from

for their respective fiscal years ended 1933.

CLASSIFICATION.)

of the various provinces end, see text at foot of p. 917.

| Item.                                            | Manitoba.         | Saskatchewan.        | Alberta.          | British Columbia. | Total.             |
|--------------------------------------------------|-------------------|----------------------|-------------------|-------------------|--------------------|
|                                                  | \$                | \$                   | \$                | \$                | \$                 |
| Revenue from Dominion Government <sup>1</sup> .. | 3,443,081         | 3,403,421            | 2,722,607         | 2,312,620         | 22,136,374         |
| <b>Taxation—</b>                                 |                   |                      |                   |                   |                    |
| Real and personal property.....                  | 308,258           | 1,504,313            | 1,041,696         | 1,857,413         | 5,613,621          |
| Mining or mineral taxes.....                     | —                 | —                    | —                 | 240,633           | 1,015,354          |
| Corporation.....                                 | 1,692,241         | 1,369,649            | 1,200,779         | 1,783,422         | 17,692,128         |
| Succession duties.....                           | 267,078           | 177,376              | 470,741           | 535,808           | 13,104,687         |
| Income.....                                      | 1,144,802         | 403,857              | 649,554           | 4,444,094         | 6,642,307          |
| Motor fuel or gasoline.....                      | 1,483,368         | 1,394,544            | 1,517,094         | 2,041,730         | 25,931,480         |
| Amusement tax.....                               | 168,424           | —                    | 159,186           | 353,486           | 2,516,205          |
| Other taxes.....                                 | 7,475             | —                    | 29,389            | 71,710            | 1,807,685          |
| Totals, Taxation.....                            | 5,071,646         | 4,849,739            | 5,068,439         | 11,328,296        | 74,323,467         |
| Royalties, duties and dues.....                  | 133,960           | 220,721              | 402,618           | 1,182,408         | 5,545,075          |
| <b>Licences and Permits—</b>                     |                   |                      |                   |                   |                    |
| Motor vehicles.....                              | 893,504           | 1,597,371            | 1,544,183         | 1,888,448         | 20,050,667         |
| Other licences.....                              | 233,341           | 209,760              | 376,998           | 996,625           | 5,589,264          |
| Totals, Licences and Permits....                 | 1,126,845         | 1,807,131            | 1,921,181         | 2,885,073         | 25,639,931         |
| Fees.....                                        | 387,361           | 591,321              | 1,143,502         | 716,527           | 8,106,616          |
| Fines and penalties.....                         | 47,664            | 29,060               | 48,742            | 40,349            | 368,247            |
| <b>Profits from Trading Activities—</b>          |                   |                      |                   |                   |                    |
| Liquor traffic control.....                      | 1,094,287         | 1,064,657            | 1,333,962         | 2,224,853         | 16,160,980         |
| Other activities.....                            | —                 | 41,832               | 23,612            | 33,073            | 274,881            |
| Totals, Profits from Trading Activities.....     | 1,094,287         | 1,106,489            | 1,357,574         | 2,257,926         | 16,435,861         |
| Interest.....                                    | 2,202,037         | 2,285,096            | 1,729,073         | 219,839           | 21,115,084         |
| Refunds of expenditure.....                      | 33,427            | 360,510 <sup>5</sup> | 673,544           | 703,392           | 3,636,389          |
| <b>Agriculture and Public Domain—</b>            |                   |                      |                   |                   |                    |
| Agriculture.....                                 | —                 | —                    | 35,459            | —                 | 349,925            |
| Lands.....                                       | —                 | 165,328              | 51,970            | 199,323           | 472,329            |
| Mines and mining.....                            | —                 | 1,104                | 10,429            | 114,671           | 133,260            |
| Forests, timber and woods.....                   | 1,885             | 1,161                | —                 | 271,773           | 604,334            |
| Water powers and storage.....                    | 17,514            | —                    | —                 | 203,661           | 1,219,535          |
| Rentals and other.....                           | 16,305            | 36,809               | —                 | 1,204             | 880,458            |
| Totals, Agriculture and Public Domain.....       | 35,704            | 204,402              | 97,858            | 790,632           | 3,659,841          |
| Institutional revenue.....                       | —                 | —                    | —                 | —                 | —                  |
| Miscellaneous.....                               | 214,442           | 97,943               | 166,060           | 755,205           | 2,234,395          |
|                                                  | 47,885            | 221,951              | 95,067            | 140,848           | 1,676,134          |
| <b>Totals, Ordinary Revenue.....</b>             | <b>13,838,339</b> | <b>16,177,784</b>    | <b>15,426,265</b> | <b>23,333,115</b> | <b>184,877,414</b> |

the regular provincial accounts. <sup>4</sup> Including exchange from N.S. Power Commission. <sup>5</sup> Including salary deductions and contributions of civil servants.

## 28.—Ordinary Expenditures of Provincial Governments

(AMENDED UNIFORM

NOTE.—For information as to when the fiscal years

| Item.                                                        | Prince<br>Edward<br>Island. | Nova<br>Scotia. | New<br>Brunswick. | Quebec.        | Ontario.   |
|--------------------------------------------------------------|-----------------------------|-----------------|-------------------|----------------|------------|
|                                                              | \$                          | \$              | \$                | \$             | \$         |
| Public Debt Charges—                                         |                             |                 |                   |                |            |
| Interest.....                                                | 207,367                     | 3,060,054       | 2,613,834         | 4,638,575      | 27,520,666 |
| Sinking funds.....                                           | 108,805                     | 403,942         | 193,470           | 1,525,155      | —          |
| Other debt charges.....                                      | —                           | 300,649         | 73,640            | 184,860        | 1,808,074  |
| Totals, Public Debt Charges....                              | 316,172                     | 3,764,645       | 2,880,944         | 6,348,590      | 29,328,740 |
| Legislation.....                                             | 28,277                      | 187,371         | 72,687            | 992,798        | 371,112    |
| Administration and general government <sup>1</sup> .....     | 120,838                     | 375,826         | 372,719           | 4,426,519      | 5,033,836  |
| Education.....                                               | 327,288                     | 1,224,937       | 614,861           | 4,653,078      | 10,760,190 |
| Administration of justice.....                               | 62,401                      | 37,371          | 177,674           | 3,528,895      | 2,427,115  |
| Transportation and communications <sup>2</sup> .....         | 236,285                     | 1,943,823       | 735,441           | 7,412,580      | 3,680,659  |
| Public Welfare—                                              |                             |                 |                   |                |            |
| Public health.....                                           | 27,185                      | 87,524          | 78,005            | 700,992        | 770,170    |
| Public institutions <sup>3</sup> .....                       | 110,394                     | 567,843         | 419,461           | 2,946,992      | 6,183,220  |
| Hospitals.....                                               | 6,000                       | 334,877         | 20,287            | <sup>4</sup> — | 1,054,832  |
| Child welfare.....                                           | —                           | 86,265          | —                 | 16,633         | 204,956    |
| Old age pensions.....                                        | 59,817                      | —               | —                 | —              | 1,551,092  |
| Unemployment relief.....                                     | 37,328                      | —               | —                 | —              | 174,640    |
| Mothers' allowances and provision<br>for deserted wives..... | —                           | 358,188         | —                 | —              | 1,597,697  |
| Charities.....                                               | —                           | 24,858          | —                 | 20,593         | —          |
| Labour <sup>5</sup> .....                                    | —                           | 25,854          | 41,326            | 164,794        | 450,966    |
| Totals, Public Welfare.....                                  | 240,724                     | 1,485,409       | 559,079           | 3,850,004      | 11,987,573 |
| Agriculture and Public Domain—                               |                             |                 |                   |                |            |
| Agriculture and drainage.....                                | 32,544                      | 298,885         | 117,613           | 3,463,527      | 1,508,267  |
| Lands.....                                                   | —                           | —               | 2,350             | 390,000        | 136,000    |
| Forests.....                                                 | —                           | 146,483         | 226,949           | 1,910,992      | 1,442,247  |
| Parks and beaches.....                                       | —                           | —               | —                 | 56,278         | 63,097     |
| Water powers.....                                            | —                           | 9,700           | —                 | 120,189        | —          |
| Mines.....                                                   | —                           | 103,698         | 8,202             | 325,638        | 130,102    |
| Game and fish.....                                           | —                           | 799             | —                 | 597,148        | 443,393    |
| Other public domain.....                                     | —                           | —               | —                 | 22,148         | —          |
| Totals, Agriculture and Public<br>Domain.....                | 32,544                      | 559,565         | 355,114           | 6,885,920      | 3,723,106  |
| Miscellaneous.....                                           | 27,746                      | 53,400          | 1,688             | 2,067,284      | 12,786     |
| Totals, Ordinary Expenditure.                                | 1,392,275                   | 9,632,347       | 5,770,207         | 40,165,668     | 67,323,117 |

<sup>1</sup> Including ministers' salaries and expenses. <sup>2</sup> Inclusive of highways, bridges and other public utilities.  
<sup>3</sup> Including mental hospitals, sanatoria, orphanages, reformatories, homes, etc. <sup>4</sup> Provided for by a  
special trust fund for hospitals and public charities maintained by the Quebec Government separate from



for their respective fiscal years ended 1933.

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of the various provinces end, see text at foot of p. 917.

| Item.                                                        | Manitoba.         | Saskatchewan.     | Alberta.          | British Columbia. | Total.             |
|--------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
|                                                              | \$                | \$                | \$                | \$                | \$                 |
| <b>Public Debt Charges—</b>                                  |                   |                   |                   |                   |                    |
| Interest.....                                                | 5,660,135         | 5,748,620         | 6,043,497         | 7,054,044         | 62,546,792         |
| Sinking funds.....                                           | —                 | 175,836           | 748,019           | 890,031           | 4,045,258          |
| Other debt charges.....                                      | 529,503           | 25,328            | 23,142            | 992,813           | 3,938,009          |
| <b>Totals, Public Debt Charges....</b>                       | <b>6,189,638</b>  | <b>5,949,784</b>  | <b>6,814,658</b>  | <b>8,936,888</b>  | <b>70,530,059</b>  |
| <b>Legislation.....</b>                                      | <b>280,291</b>    | <b>185,582</b>    | <b>210,110</b>    | <b>196,264</b>    | <b>2,524,492</b>   |
| Administration and general government <sup>1</sup> .....     | 743,433           | 1,616,943         | 1,344,167         | 2,017,548         | 16,051,829         |
| Education.....                                               | 2,100,713         | 2,864,744         | 2,657,484         | 3,721,987         | 28,925,282         |
| Administration of justice.....                               | 779,573           | 1,048,593         | 917,465           | 1,211,551         | 10,190,638         |
| Transportation and communications <sup>2</sup> .....         | 771,063           | 650,132           | 945,248           | 2,177,383         | 18,552,614         |
| <b>Public Welfare—</b>                                       |                   |                   |                   |                   |                    |
| Public health.....                                           | 166,863           | 151,389           | 109,564           | 150,123           | 2,241,815          |
| Public institutions <sup>3</sup> .....                       | 852,703           | 1,123,985         | 1,085,633         | 1,322,877         | 14,613,108         |
| Hospitals.....                                               | 511,616           | 310,632           | 470,326           | 805,904           | 3,514,474          |
| Child welfare.....                                           | —                 | 61,773            | 75,649            | 177,050           | 622,326            |
| Old age pensions.....                                        | 1,878,798         | 1,796,200         | 1,141,370         | 1,583,196         | 8,010,473          |
| Unemployment relief.....                                     | —                 | —                 | —                 | 456,808           | 668,776            |
| Mothers' allowances and provision for<br>deserted wives..... | 516,308           | 403,036           | 439,196           | 779,640           | 4,094,065          |
| Charities.....                                               | 72,976            | 13,311            | 30,022            | 185,411           | 347,171            |
| Labour <sup>4</sup> .....                                    | 85,908            | 94,807            | 135,787           | 150,906           | 1,150,348          |
| <b>Totals, Public Welfare.....</b>                           | <b>4,085,172</b>  | <b>3,955,133</b>  | <b>3,487,547</b>  | <b>5,611,915</b>  | <b>35,262,556</b>  |
| <b>Agriculture and Public Domain—</b>                        |                   |                   |                   |                   |                    |
| Agriculture and drainage.....                                | 424,298           | 279,759           | 430,593           | 494,507           | 7,049,993          |
| Lands.....                                                   | 81,273            | 16,748            | 94,521            | 191,613           | 912,505            |
| Forests.....                                                 | 153,463           | 72,243            | 179,672           | 475,269           | 4,607,318          |
| Parks and beaches.....                                       | —                 | 32,330            | 3,879             | —                 | 155,584            |
| Water powers.....                                            | 50,529            | —                 | —                 | 67,758            | 248,176            |
| Mines.....                                                   | 28,140            | 2,520             | 86,258            | 122,437           | 806,994            |
| Game and fish.....                                           | 68,915            | 40,581            | 61,979            | 195,181           | 1,407,996          |
| Other public domain.....                                     | 11,366            | 20,069            | 109,850           | 28,834            | 192,268            |
| <b>Totals, Agriculture and Public<br/>Domain.....</b>        | <b>817,984</b>    | <b>464,250</b>    | <b>966,752</b>    | <b>1,575,599</b>  | <b>15,380,834</b>  |
| <b>Miscellaneous.....</b>                                    | <b>15,037</b>     | <b>21,260</b>     | <b>190,355</b>    | <b>720,357</b>    | <b>3,109,913</b>   |
| <b>Totals, Ordinary Expenditure.</b>                         | <b>15,782,904</b> | <b>16,756,421</b> | <b>17,533,786</b> | <b>26,169,492</b> | <b>200,528,217</b> |

the regular provincial accounts. <sup>1</sup> Included in mothers' allowances. <sup>2</sup> Employment bureaux, workmen's compensation, etc.

**29.—Ordinary Revenues and Expenditures of the Provincial Governments for their respective fiscal years ended in the census years 1871-1911 and in each year from 1916 to 1933.**

NOTE.—For provincial ordinary revenues and expenditures in all other provincial fiscal years since Confederation, see 1932 Year Book, pp. 734-736.

| Fiscal Year. | Prince Edward Island. |                           | Nova Scotia. |              | New Brunswick. |              | Quebec.    |              |
|--------------|-----------------------|---------------------------|--------------|--------------|----------------|--------------|------------|--------------|
|              | Revenue.              | Expenditure. <sup>1</sup> | Revenue.     | Expenditure. | Revenue.       | Expenditure. | Revenue.   | Expenditure. |
|              | \$                    | \$                        | \$           | \$           | \$             | \$           | \$         | \$           |
| 1871.....    | 385,014               | 406,236                   | 525,824      | 600,344      | 451,076        | 438,407      | 1,632,032  | 1,575,545    |
| 1881.....    | 275,380               | 261,276                   | 476,445      | 494,582      | 607,445        | 598,844      | 3,191,779  | 3,566,612    |
| 1891.....    | 274,047               | 304,486                   | 661,541      | 692,538      | 612,762        | 680,813      | 3,457,144  | 4,095,520    |
| 1901.....    | 309,445               | 315,326                   | 1,090,230    | 1,088,927    | 1,031,267      | 910,346      | 4,563,432  | 4,516,554    |
| 1911.....    | 374,798               | 398,490                   | 1,625,653    | 1,790,778    | 1,347,077      | 1,403,547    | 7,032,745  | 6,424,900    |
| 1916.....    | 508,455               | 453,151                   | 2,165,338    | 2,152,773    | 1,580,419      | 1,568,340    | 9,647,984  | 9,436,687    |
| 1917.....    | 496,053               | 487,113                   | 2,118,620    | 2,344,009    | 1,572,314      | 2,166,904    | 10,441,114 | 9,907,672    |
| 1918.....    | 514,475               | 484,416                   | 2,332,634    | 2,573,797    | 2,357,909      | 2,399,062    | 13,806,392 | 11,671,830   |
| 1919.....    | 501,915               | 655,409                   | 3,280,313    | 3,280,282    | 2,182,420      | 2,595,937    | 12,666,352 | 12,371,131   |
| 1920.....    | 740,973               | 660,774                   | 3,801,016    | 3,916,848    | 3,100,892      | 2,969,323    | 14,472,651 | 13,520,740   |
| 1921.....    | 769,719               | 694,042                   | 4,586,840    | 4,678,146    | 2,892,905      | 3,432,512    | 15,914,521 | 14,624,088   |
| 1922.....    | 748,888               | 687,241                   | 4,791,208    | 4,791,998    | 3,226,727      | 2,985,877    | 21,609,396 | 16,975,977   |
| 1923.....    | 554,303               | 790,046                   | 5,317,335    | 5,229,178    | 3,479,733      | 3,648,273    | 21,634,642 | 19,930,276   |
| 1924.....    | 738,431               | 715,882                   | 5,461,383    | 5,579,525    | 3,725,286      | 3,835,522    | 23,170,733 | 21,567,293   |
| 1925.....    | 740,076               | 745,338                   | 4,467,484    | 5,969,544    | 3,556,330      | 4,112,569    | 25,021,329 | 23,629,390   |
| 1926.....    | 832,551               | 756,114                   | 5,744,575    | 6,327,043    | 4,206,853      | 4,078,775    | 27,206,335 | 26,401,480   |
| 1927.....    | 836,748               | 870,427                   | 6,517,073    | 6,566,143    | 5,096,446      | 4,636,157    | 30,924,997 | 29,078,703   |
| 1928.....    | 1,034,782             | 943,548                   | 6,933,630    | 7,543,078    | 5,290,098      | 5,393,784    | 34,807,783 | 32,821,226   |
| 1929.....    | 1,083,571             | 1,033,315                 | 7,390,410    | 7,288,486    | 5,991,375      | 6,521,575    | 39,976,283 | 35,964,487   |
| 1930.....    | 1,148,749             | 1,133,366                 | 7,682,066    | 7,900,987    | 6,583,726      | 7,218,856    | 43,585,142 | 39,374,910   |
| 1931.....    | 1,149,570             | 1,453,191                 | 8,104,602    | 8,194,592    | 5,980,914      | 6,761,420    | 41,630,620 | 40,854,245   |
| 1932.....    | 1,266,026             | 1,277,401                 | 8,874,095    | 9,037,199    | 6,505,328      | 6,898,263    | 39,349,193 | 39,933,901   |
| 1933.....    | 1,263,063             | 1,392,275                 | 8,013,463    | 9,632,347    | 5,700,082      | 5,770,207    | 33,324,760 | 40,165,668   |

<sup>1</sup>Includes expenditure on capital account, except for 1901.

| Fiscal Year. | Ontario.                |                         | Manitoba.              |                        | Saskatchewan.           |                         |
|--------------|-------------------------|-------------------------|------------------------|------------------------|-------------------------|-------------------------|
|              | Revenue.                | Expenditure.            | Revenue.               | Expenditure.           | Revenue.                | Expenditure.            |
|              | \$                      | \$                      | \$                     | \$                     | \$                      | \$                      |
| 1871.....    | 2,333,180               | 1,816,784               | —                      | —                      | —                       | —                       |
| 1881.....    | 2,788,747               | 2,592,800               | 121,867                | 226,808                | —                       | —                       |
| 1891.....    | 4,138,589               | 4,158,460               | 590,484                | 664,432                | —                       | —                       |
| 1901.....    | 4,466,044               | 4,038,834               | 1,008,653              | 988,251                | —                       | —                       |
| 1911.....    | 9,370,834               | 9,916,934               | 4,454,190              | 4,002,826              | 2,699,603               | 2,575,145               |
| 1916.....    | 13,841,339              | 12,706,333              | 5,897,807              | 6,147,780              | 4,801,064               | 5,258,756               |
| 1917.....    | 18,269,597              | 16,518,223              | 6,292,986              | 6,860,355              | 5,631,910               | 5,553,985               |
| 1918.....    | 19,270,122              | 17,460,404              | 6,723,013              | 7,307,727              | 7,797,153               | 6,828,596               |
| 1919.....    | 20,692,166 <sup>1</sup> | 21,464,575              | 8,613,364              | 8,497,942              | 8,333,759               | 8,125,203               |
| 1920.....    | 25,981,517 <sup>1</sup> | 25,880,843              | 9,870,710              | 10,602,955             | 9,903,885               | 8,707,833               |
| 1921.....    | 30,411,396 <sup>1</sup> | 28,579,688              | 9,358,956              | 10,063,139             | 11,789,920              | 12,151,665              |
| 1922.....    | 39,725,370 <sup>1</sup> | 37,458,395 <sup>1</sup> | 7,940,457              | 8,381,667              | 11,801,894              | 13,322,120              |
| 1923.....    | 34,818,729 <sup>1</sup> | 49,305,439              | 10,078,730             | 10,616,567             | 12,576,763              | 12,886,544              |
| 1924.....    | 41,721,961 <sup>1</sup> | 48,866,569              | 10,926,634             | 10,455,187             | 12,520,411              | 12,449,150              |
| 1925.....    | 48,013,852 <sup>1</sup> | 51,462,178              | 7,866,519 <sup>2</sup> | 6,824,155 <sup>3</sup> | 12,378,755              | 12,498,933              |
| 1926.....    | 52,039,855 <sup>1</sup> | 51,251,781              | 10,582,537             | 10,431,652             | 13,317,398              | 13,212,483              |
| 1927.....    | 56,306,225              | 55,763,689              | 11,592,758             | 10,446,285             | 13,050,217              | 12,962,217              |
| 1928.....    | 58,426,983              | 58,198,746              | 10,962,317             | 11,103,109             | 13,564,893              | 13,449,632              |
| 1929.....    | 64,549,718              | 61,906,824              | 12,150,490             | 12,344,498             | 16,096,666              | 15,971,231              |
| 1930.....    | 57,343,291 <sup>3</sup> | 57,989,353 <sup>4</sup> | 13,922,135             | 13,637,397             | 16,561,527 <sup>4</sup> | 17,079,469 <sup>4</sup> |
| 1931.....    | 54,390,092 <sup>5</sup> | 54,846,994 <sup>5</sup> | 13,842,511             | 14,491,673             | 14,346,010              | 18,202,677              |
| 1932.....    | 66,416,646 <sup>6</sup> | 64,414,500 <sup>6</sup> | 15,726,641             | 15,726,641             | 13,254,871              | 19,075,161              |
| 1933.....    | 67,800,543              | 67,325,117              | 13,838,339             | 15,782,904             | 16,177,784              | 16,756,421              |

<sup>1</sup>Includes capital revenue for lands which cannot be separated. <sup>2</sup>Includes capital expenditure which cannot be separated. <sup>3</sup>For eight months. <sup>4</sup>Certain minor items, amounting to about \$600,000, shown in previous years as ordinary receipts and expenditures have been transferred to the extraordinary classification in the 1930 provincial accounts report. <sup>5</sup>Exclusive of interest paid by Hydro and other commissions. <sup>6</sup>Subject to revision. This figure is taken from the Public Accounts of Ontario.

**29.—Ordinary Revenues and Expenditures of the Provincial Governments for their respective fiscal years ended in the census years 1871-1911 and in each year from 1916 to 1933—concluded.**

NOTE.—For provincial ordinary revenues and expenditures in all other provincial fiscal years since Confederation, see 1932 Year Book, pp. 734-736.

| Fiscal Year. | Alberta.                |                         | British Columbia.    |                         | Totals for all Provinces. <sup>3</sup> |                          |
|--------------|-------------------------|-------------------------|----------------------|-------------------------|----------------------------------------|--------------------------|
|              | Revenue.                | Expenditure.            | Revenue.             | Expenditure.            | Revenue.                               | Expenditure.             |
|              | \$                      | \$                      | \$                   | \$                      | \$                                     | \$                       |
| 1871.....    | -                       | -                       | 191,820 <sup>4</sup> | 97,692 <sup>4</sup>     | 5,518,946 <sup>3</sup>                 | 4,935,008 <sup>3</sup>   |
| 1881.....    | -                       | -                       | 397,035              | 378,779                 | 7,858,698 <sup>3</sup>                 | 8,119,701 <sup>3</sup>   |
| 1891.....    | -                       | -                       | 959,248              | 1,032,104               | 10,693,815 <sup>3</sup>                | 11,628,353 <sup>3</sup>  |
| 1901.....    | -                       | -                       | 1,605,920            | 2,287,821               | 14,074,991 <sup>3</sup>                | 14,146,059 <sup>3</sup>  |
| 1911.....    | 3,309,156 <sup>1</sup>  | 3,437,088               | 10,492,892           | 8,194,803               | 40,706,948 <sup>3</sup>                | 38,144,511 <sup>3</sup>  |
| 1916.....    | 5,281,695               | 6,018,894               | 6,291,694            | 10,083,505              | 50,015,795 <sup>3</sup>                | 53,826,219 <sup>3</sup>  |
| 1917.....    | 6,260,106               | 6,752,504               | 6,906,784            | 9,531,740               | 57,989,984 <sup>3</sup>                | 60,122,485 <sup>3</sup>  |
| 1918.....    | 7,660,762               | 8,303,808               | 8,882,845            | 9,023,269               | 69,345,305 <sup>3</sup>                | 66,052,909 <sup>3</sup>  |
| 1919.....    | 9,642,739               | 9,525,749               | 10,931,279           | 9,887,745               | 76,844,307 <sup>3</sup>                | 76,403,973 <sup>3</sup>  |
| 1920.....    | 10,919,776              | 10,423,356              | 13,861,603           | 11,568,003              | 92,653,023 <sup>3</sup>                | 88,250,675 <sup>3</sup>  |
| 1921.....    | 11,086,937              | 13,109,304              | 15,219,264           | 15,236,931              | 102,030,458 <sup>3</sup>               | 102,569,515 <sup>3</sup> |
| 1922.....    | 9,324,890               | 11,235,192              | 16,987,869           | 17,436,487              | 116,156,699 <sup>3</sup>               | 112,874,954 <sup>3</sup> |
| 1923.....    | 10,419,146              | 10,990,830              | 18,758,864           | 19,273,942 <sup>2</sup> | 117,738,244 <sup>3</sup>               | 132,671,095 <sup>3</sup> |
| 1924.....    | 10,506,627              | 11,174,690              | 19,124,580           | 20,515,367 <sup>2</sup> | 127,896,047 <sup>3</sup>               | 135,159,185 <sup>3</sup> |
| 1925.....    | 11,531,026              | 11,249,323              | 18,823,358           | 20,156,702 <sup>2</sup> | 132,398,729 <sup>3</sup>               | 136,648,242 <sup>3</sup> |
| 1926.....    | 11,912,128              | 11,894,328              | 20,608,672           | 19,829,522 <sup>2</sup> | 146,450,904 <sup>3</sup>               | 144,183,178 <sup>3</sup> |
| 1927.....    | 12,263,401              | 12,479,381              | 20,257,916           | 19,408,881 <sup>2</sup> | 156,845,780 <sup>3</sup>               | 152,211,883 <sup>3</sup> |
| 1928.....    | 16,149,896 <sup>5</sup> | 15,870,133 <sup>5</sup> | 20,939,123           | 20,215,655 <sup>2</sup> | 168,109,505 <sup>3</sup>               | 165,538,910 <sup>3</sup> |
| 1929.....    | 15,265,084              | 13,686,261              | 21,094,427           | 22,825,520 <sup>2</sup> | 183,598,024 <sup>3</sup>               | 177,542,192 <sup>3</sup> |
| 1930.....    | 15,829,865              | 15,402,885              | 25,498,409           | 25,066,980 <sup>2</sup> | 188,154,910 <sup>3</sup>               | 184,804,203 <sup>3</sup> |
| 1931.....    | 15,710,962              | 18,017,544              | 23,988,199           | 27,931,866 <sup>2</sup> | 179,143,480 <sup>3</sup>               | 190,754,202 <sup>3</sup> |
| 1932.....    | 13,492,430              | 18,645,481              | 25,682,892           | 32,734,453              | 190,508,122                            | 207,743,000              |
| 1933.....    | 15,426,265              | 17,533,786              | 23,333,115           | 26,169,492              | 184,877,414                            | 200,528,217              |

<sup>1</sup>Includes small sums of capital revenue and expenditure which cannot be separated. <sup>2</sup>Includes sinking funds taken from capital expenditure (expenditure out of income). <sup>3</sup>See footnotes to figures for individual provinces when using these figures. <sup>4</sup>Six months. <sup>5</sup>Fifteen months ended Mar. 31, 1928.

**30.—Ordinary Revenues and Expenditures of Provincial Governments per Head of Population for their respective fiscal years ended in the census years 1871-1911 and in each year from 1916 to 1933.**

NOTE.—As this table is based upon Table 29, those using it should refer to that table for totals and for explanatory notes. Per capita figures are calculated on the basis of the population figures given on p. 164.

(A) ORDINARY REVENUES.

| Fiscal Year. | Prince<br>Edward<br>Island. | Nova<br>Scotia. | New<br>Brunsw-<br>wick. | Quebec. | Ontario. | Mani-<br>toba. | Saskat-<br>chewan. | Albarta. | British<br>Colum-<br>bia. | Average<br>for All<br>Pro-<br>vinces. |
|--------------|-----------------------------|-----------------|-------------------------|---------|----------|----------------|--------------------|----------|---------------------------|---------------------------------------|
|              | \$                          | \$              | \$                      | \$      | \$       | \$             | \$                 | \$       | \$                        | \$                                    |
| 1871.....    | 4.10                        | 1.36            | 1.58                    | 1.37    | 1.44     | —              | —                  | —        | 5.31                      | 1.50                                  |
| 1881.....    | 2.53                        | 1.10            | 1.90                    | 2.35    | 1.45     | 1.97           | —                  | —        | 8.10                      | 1.82                                  |
| 1891.....    | 2.51                        | 1.49            | 1.91                    | 2.32    | 1.96     | 3.86           | —                  | —        | 9.79                      | 2.21                                  |
| 1901.....    | 3.00                        | 2.37            | 3.12                    | 2.77    | 2.05     | 3.96           | —                  | —        | 8.97                      | 2.62                                  |
| 1911.....    | 3.99                        | 3.30            | 3.83                    | 3.51    | 3.71     | 9.66           | 5.49               | 8.85     | 26.70                     | 5.65                                  |
| 1916.....    | 5.53                        | 4.29            | 4.29                    | 4.48    | 5.10     | 10.65          | 7.41               | 10.65    | 13.80                     | 6.25                                  |
| 1917.....    | 5.51                        | 4.21            | 4.27                    | 4.81    | 6.71     | 11.28          | 8.51               | 12.32    | 14.88                     | 7.19                                  |
| 1918.....    | 5.78                        | 4.65            | 6.39                    | 6.30    | 7.02     | 11.90          | 11.50              | 14.67    | 18.74                     | 8.51                                  |
| 1919.....    | 5.64                        | 6.47            | 5.85                    | 5.67    | 7.42     | 14.93          | 11.91              | 17.82    | 22.40                     | 9.25                                  |
| 1920.....    | 8.33                        | 7.37            | 8.14                    | 6.30    | 9.07     | 16.62          | 13.59              | 19.33    | 27.34                     | 10.83                                 |
| 1921.....    | 8.65                        | 8.75            | 7.46                    | 6.74    | 10.37    | 15.34          | 15.57              | 18.85    | 28.99                     | 11.61                                 |
| 1922.....    | 8.41                        | 9.18            | 8.29                    | 9.00    | 13.33    | 12.89          | 15.35              | 15.75    | 31.40                     | 13.02                                 |
| 1923.....    | 6.37                        | 10.27           | 8.95                    | 8.84    | 11.56    | 16.28          | 16.17              | 17.57    | 33.80                     | 13.07                                 |
| 1924.....    | 8.59                        | 10.58           | 9.53                    | 9.29    | 13.64    | 17.48          | 15.83              | 17.60    | 33.49                     | 13.99                                 |
| 1925.....    | 8.61                        | 8.67            | 9.05                    | 9.82    | 15.43    | 12.45          | 15.36              | 19.15    | 32.01                     | 14.25                                 |
| 1926.....    | 9.57                        | 11.15           | 10.62                   | 10.45   | 16.45    | 16.56          | 16.22              | 19.59    | 34.01                     | 15.50                                 |
| 1927.....    | 9.62                        | 12.65           | 12.81                   | 11.64   | 17.49    | 17.81          | 15.52              | 19.37    | 32.52                     | 16.28                                 |
| 1928.....    | 11.76                       | 13.46           | 13.19                   | 12.82   | 17.82    | 16.51          | 15.74              | 24.54    | 32.67                     | 17.09                                 |
| 1929.....    | 12.31                       | 14.35           | 14.83                   | 14.42   | 19.36    | 17.95          | 18.23              | 22.32    | 32.01                     | 18.31                                 |
| 1930.....    | 13.05                       | 14.95           | 16.22                   | 14.43   | 16.94    | 20.21          | 18.34              | 22.36    | 37.72                     | 18.43                                 |
| 1931.....    | 13.06                       | 15.80           | 14.66                   | 14.48   | 15.85    | 19.77          | 15.56              | 21.46    | 34.56                     | 17.27                                 |
| 1932.....    | 13.70                       | 17.30           | 15.91                   | 13.55   | 19.20    | 22.31          | 13.65              | 18.23    | 36.48                     | 18.13                                 |
| 1933.....    | 14.19                       | 15.35           | 13.57                   | 11.22   | 19.24    | 19.17          | 17.01              | 20.38    | 32.77                     | 17.31                                 |

(B) ORDINARY EXPENDITURES.

| Fiscal Year. | Prince<br>Edward<br>Island. | Nova<br>Scotia. | New<br>Brunsw-<br>wick. | Quebec. | Ontario. | Mani-<br>toba. | Saskat-<br>chewan. | Albarta. | British<br>Colum-<br>bia. | Average<br>for All<br>Pro-<br>vinces. |
|--------------|-----------------------------|-----------------|-------------------------|---------|----------|----------------|--------------------|----------|---------------------------|---------------------------------------|
|              | \$                          | \$              | \$                      | \$      | \$       | \$             | \$                 | \$       | \$                        | \$                                    |
| 1871.....    | 4.32                        | 1.55            | 1.53                    | 1.32    | 1.12     | —              | —                  | —        | 2.69                      | 1.34                                  |
| 1881.....    | 2.40                        | 1.12            | 1.87                    | 4.47    | 1.35     | 3.66           | —                  | —        | 7.71                      | 1.89                                  |
| 1891.....    | 2.79                        | 1.54            | 2.12                    | 2.75    | 1.97     | 4.34           | —                  | —        | 10.53                     | 2.41                                  |
| 1901.....    | 3.06                        | 2.37            | 2.75                    | 2.74    | 1.85     | 3.88           | —                  | —        | 12.78                     | 2.63                                  |
| 1911.....    | 4.24                        | 3.64            | 3.99                    | 3.20    | 3.92     | 8.68           | 5.23               | 9.19     | 20.85                     | 5.29                                  |
| 1916.....    | 4.93                        | 4.26            | 4.26                    | 4.38    | 4.68     | 11.10          | 8.12               | 12.13    | 22.11                     | 6.73                                  |
| 1917.....    | 5.41                        | 4.66            | 5.89                    | 4.57    | 6.06     | 12.29          | 8.39               | 13.29    | 20.54                     | 7.46                                  |
| 1918.....    | 5.44                        | 5.13            | 6.50                    | 5.33    | 6.36     | 12.93          | 10.07              | 15.91    | 19.04                     | 8.11                                  |
| 1919.....    | 7.36                        | 6.47            | 6.96                    | 5.54    | 7.70     | 14.73          | 11.61              | 17.61    | 20.26                     | 9.19                                  |
| 1920.....    | 7.42                        | 7.59            | 7.79                    | 5.88    | 9.04     | 17.85          | 11.94              | 18.45    | 22.82                     | 10.31                                 |
| 1921.....    | 7.80                        | 8.93            | 8.85                    | 6.19    | 9.74     | 16.50          | 16.05              | 22.29    | 29.02                     | 11.67                                 |
| 1922.....    | 7.72                        | 9.18            | 7.68                    | 6.88    | 12.57    | 13.61          | 17.32              | 18.98    | 32.23                     | 12.66                                 |
| 1923.....    | 9.08                        | 10.09           | 9.38                    | 8.15    | 16.36    | 17.15          | 16.56              | 18.53    | 34.73                     | 14.72                                 |
| 1924.....    | 8.32                        | 10.81           | 9.81                    | 8.64    | 15.97    | 16.73          | 15.74              | 18.72    | 35.93                     | 14.78                                 |
| 1925.....    | 8.67                        | 11.59           | 10.46                   | 9.27    | 16.54    | 10.80          | 15.51              | 18.69    | 34.29                     | 14.70                                 |
| 1926.....    | 8.69                        | 12.29           | 10.30                   | 10.14   | 16.20    | 16.32          | 16.09              | 19.56    | 32.72                     | 15.26                                 |
| 1927.....    | 10.00                       | 12.75           | 11.65                   | 10.94   | 17.32    | 16.05          | 15.41              | 19.71    | 31.15                     | 15.80                                 |
| 1928.....    | 10.72                       | 14.65           | 13.45                   | 12.09   | 17.75    | 16.72          | 15.60              | 24.12    | 31.54                     | 16.83                                 |
| 1929.....    | 11.74                       | 14.15           | 16.14                   | 13.00   | 18.57    | 18.23          | 18.09              | 20.01    | 34.64                     | 17.70                                 |
| 1930.....    | 12.88                       | 15.37           | 17.78                   | 13.94   | 17.13    | 19.79          | 18.91              | 21.75    | 37.08                     | 18.10                                 |
| 1931.....    | 16.51                       | 15.97           | 16.57                   | 14.22   | 15.98    | 20.70          | 19.74              | 24.61    | 40.25                     | 18.38                                 |
| 1932.....    | 14.52                       | 17.62           | 16.85                   | 13.75   | 18.62    | 22.31          | 19.64              | 25.20    | 46.50                     | 19.77                                 |
| 1933.....    | 15.64                       | 18.45           | 13.74                   | 13.52   | 19.10    | 21.86          | 17.62              | 23.16    | 36.75                     | 18.77                                 |



**Subsection 2.—Provincial Debts and Assets.**

In former issues of the Year Book statements were given showing the total direct liabilities of Provincial Governments and a detailed statement of the provincial assets. In accordance with decisions reached at the Conference mentioned on page 916 a uniform balance sheet for the provincial fiscal years ended in 1933 is now presented. In accordance with up-to-date accounting practice, the balance sheet is divided into three distinct categories, capital, income or current, and trust fund account assets and liabilities.

In addition to this the total indirect or contingent liabilities of each province are shown, though they do not in any way affect the balance sheet transactions.

For Prince Edward Island, the total capital assets are not balanced with the total capital liabilities, largely owing to the exclusion of any detail showing non-revenue earning assets such as roads, bridges, public buildings, etc.

The Quebec Public Accounts report for 1933 did not show a balance sheet though the 1934 report does include such a statement. The statistics here shown are as supplied to the Dominion Bureau of Statistics by the Treasury Department.

As some of the items may be vague in meaning the following notes will be of assistance in studying the balance sheets presented:

**Capital Assets.—**

*Available or Realizable Assets:* "Loans and advances" are fully secured. "Other Government Utilities" in the case of Nova Scotia represent largely highways, together with other capitalizations, whereas under "roads" the figures given represent only machinery replacement.

*General Assets, Non-revenue Bearing:* In Ontario, provincial buildings and lands, northern development (roads and farms), rural power-transmission-lines bonus, municipal works unemployment relief and other smaller miscellaneous items are included under "roads." In New Brunswick "public buildings" do not include Parliament buildings, upon which no valuation has been set up. In Saskatchewan bridges are included in "roads". "Universities and Colleges" needs further explanation. In Nova Scotia, New Brunswick, Quebec and Ontario no valuations are shown as these provinces do not consider such universities and colleges as capital assets of the provinces where situated, though government aid for maintenance may be found in the annual statements of educational expenditure. Manitoba's valuations are inclusive of educational properties, other than universities and colleges controlled by the government. In Saskatchewan, the university is included in public buildings. In Alberta the valuation shown includes advances and redemption of debentures. The British Columbia university valuation is included in capital losses, representing \$3,678,278 written off in 1929-30.

**Capital Liabilities.—**

"Dominion Government Debt Allowance" represents housing loan only for Nova Scotia.

"Reserves or Surpluses" are not applicable against any specific assets.

## 31.—Balance Sheets of the Provincial Governments

NOTE.—For dates on which the fiscal years of  
(AMENDED UNIFORM

## ASSETS.

| Item.                                            | Prince<br>Edward<br>Island. | Nova<br>Scotia. | New<br>Brunswick. | Quebec.    | Ontario.    |
|--------------------------------------------------|-----------------------------|-----------------|-------------------|------------|-------------|
|                                                  | \$                          | \$              | \$                | \$         | \$          |
| <b>Capital Assets.</b>                           |                             |                 |                   |            |             |
| AVAILABLE OR REALIZABLE—                         |                             |                 |                   |            |             |
| Cash on hand and in bank.....                    | -                           | -               | 440,937           | -          | -           |
| Investments (exclusive of sinking<br>funds)..... | -                           | 4,461,004       | 50,000            | -          | -           |
| Loans, advances and accts. receivable.....       | -                           | 14,455,115      | 332,687           | 13,608,514 | 59,525,157  |
| Government Utilities—                            |                             |                 |                   |            |             |
| Hydro-electric.....                              | -                           | -               | 6,283,497         | -          | 187,964,549 |
| Railways.....                                    | -                           | -               | 1,246,432         | -          | 30,207,935  |
| Telephones.....                                  | -                           | -               | -                 | -          | -           |
| Other government utilities.....                  | -                           | 42,048,841      | -                 | -          | -           |
| Totals, Government Utilities.....                | -                           | 42,048,841      | 7,529,929         | -          | 218,172,484 |
| Other available or realizable.....               | 893,390                     | 1,055,416       | 529,300           | -          | 1,458,971   |
| TOTALS, AVAILABLE OR REALIZABLE.....             | 893,390                     | 62,020,376      | 8,882,853         | 13,608,514 | 279,156,612 |
| GENERAL ASSETS NON-REVENUE BEAR-<br>ING—         |                             |                 |                   |            |             |
| Roads.....                                       | -                           | 526,984         | 28,751,021        | -          | 252,945,308 |
| Bridges.....                                     | -                           | -               | 10,986,198        | -          | -           |
| Public buildings.....                            | -                           | -               | 2,713,243         | -          | -           |
| Universities and colleges.....                   | -                           | -               | -                 | -          | -           |
| Other miscellaneous.....                         | -                           | -               | 10,430,711        | -          | -           |
| TOTALS, GENERAL ASSETS.....                      | -                           | 526,984         | 52,881,173        | -          | 252,945,308 |
| Loans and advances (partially secured)...        | -                           | 1,152,263       | 860,500           | -          | -           |
| Deferred charges and capital losses.....         | -                           | 890,757         | 260,000           | -          | 22,968,486  |
| Advances to current or income account.....       | -                           | 1,630,552       | 169,893           | -          | -           |
| Totals, Capital Assets.....                      | 893,390                     | 66,220,932      | 63,054,419        | 13,608,514 | 555,070,406 |

| Item.                                            | Manitoba.   | Saskat-<br>chewan. | Alberta.    | British<br>Columbia. | Total.        |
|--------------------------------------------------|-------------|--------------------|-------------|----------------------|---------------|
|                                                  | \$          | \$                 | \$          | \$                   | \$            |
| <b>Capital Assets.</b>                           |             |                    |             |                      |               |
| AVAILABLE OR REALIZABLE—                         |             |                    |             |                      |               |
| Cash on hand and in bank.....                    | 407,978     | -                  | 187,341     | -                    | 1,036,256     |
| Investments (exclusive of sinking<br>funds)..... | 12,287,692  | -                  | 3,893,435   | -                    | 20,692,131    |
| Loans, advances and accts. receivable.....       | 24,822,633  | 50,268,608         | 17,549,604  | -                    | 180,562,318   |
| Government Utilities—                            |             |                    |             |                      |               |
| Hydro-electric.....                              | 5,443,639   | -                  | -           | -                    | 199,691,685   |
| Railways.....                                    | -           | -                  | -           | -                    | 31,454,367    |
| Telephones.....                                  | 22,979,474  | -                  | 24,016,980  | -                    | 46,996,454    |
| Other government utilities.....                  | 757,679     | -                  | -           | -                    | 42,806,520    |
| Totals, Government Utilities.....                | 29,180,792  | -                  | 24,016,980  | -                    | 320,949,026   |
| Other available or realizable.....               | 29,712,796  | 39,783,257         | 594,524     | -                    | 74,027,654    |
| TOTALS, AVAILABLE OR REALIZABLE.....             | 96,411,891  | 90,051,865         | 46,241,884  | -                    | 597,267,385   |
| GENERAL ASSETS NON-REVENUE BEAR-<br>ING—         |             |                    |             |                      |               |
| Roads.....                                       | 20,004,891  | 30,066,812         | 19,919,166  | 67,833,076           | 420,047,258   |
| Bridges.....                                     | 38,407      | -                  | 10,328,019  | 8,100,632            | 29,453,256    |
| Public buildings.....                            | 18,377,617  | 23,709,583         | 17,205,553  | 15,091,466           | 77,097,462    |
| Universities and colleges.....                   | 6,722,937   | -                  | 4,430,972   | -                    | 11,163,909    |
| Other miscellaneous.....                         | 285,608     | 154,821            | 8,690,973   | 1,909,349            | 21,471,462    |
| TOTALS, GENERAL ASSETS.....                      | 45,429,460  | 53,931,216         | 60,574,683  | 92,934,523           | 559,223,347   |
| Loans and advances (partially secured)...        | 3,471,578   | 10,932,301         | 5,823,167   | 42,029,565           | 64,269,374    |
| Deferred charges and capital losses.....         | 9,149,799   | 11,274,569         | 26,472,462  | 29,799,683           | 100,815,756   |
| Advances to current or income account...         | 66,649      | 12,764,982         | 16,011,643  | 48,992,202           | 79,665,921    |
| Totals, Capital Assets.....                      | 154,559,377 | 178,954,933        | 155,123,839 | 213,755,973          | 1,401,241,793 |

for their respective fiscal years ended 1933.

the provinces end, see text at foot of p. 917.

CLASSIFICATION.)

LIABILITIES.

| Item.                                   | Prince<br>Edward<br>Island. | Nova<br>Scotia.   | New<br>Brunswick. | Quebec.            | Ontario.           |
|-----------------------------------------|-----------------------------|-------------------|-------------------|--------------------|--------------------|
| <b>Capital Liabilities.</b>             |                             |                   |                   |                    |                    |
| <b>FUNDED DEBT—</b>                     | \$                          | \$                | \$                | \$                 | \$                 |
| Gross bonded or debenture debt.....     | 3,754,000                   | 66,439,880        | 61,935,163        | 110,237,892        | 522,687,345        |
| Less sinking funds.....                 | -758,707                    | -4,759,273        | -6,731,429        | -13,046,235        | -5,496,416         |
| Net bonded or debenture debt.....       | 2,995,293                   | 61,680,607        | 55,203,734        | 97,191,657         | 517,190,929        |
| Treasury bills.....                     | -                           | 1,500,000         | -                 | -                  | 36,620,000         |
| <b>TOTALS, NET FUNDED DEBT.....</b>     | <b>2,995,293</b>            | <b>63,180,607</b> | <b>55,203,734</b> | <b>97,191,657</b>  | <b>553,810,929</b> |
| <b>UNFUNDED OR FLOATING DEBT—</b>       |                             |                   |                   |                    |                    |
| Temporary loans.....                    | 370,783                     | -                 | -                 | 13,000,000         | -                  |
| Savings deposits.....                   | -                           | -                 | -                 | -                  | 21,546,006         |
| Superannuation funds.....               | -                           | -                 | -                 | 294,352            | 4,840,357          |
| Accounts payable.....                   | -                           | -                 | 208,756           | -                  | -                  |
| Other miscellaneous.....                | 545,551                     | -                 | 910,500           | -                  | 1,077,479          |
| <b>TOTALS, UNFUNDED DEBT.....</b>       | <b>916,334</b>              | <b>-</b>          | <b>1,119,256</b>  | <b>13,294,352</b>  | <b>27,463,842</b>  |
| Dominion Government debt allowance...   | -                           | 847,000           | -                 | -                  | -                  |
| Reserves or surpluses.....              | -                           | 2,193,325         | -                 | -                  | 729,155            |
| Capital surplus.....                    | -                           | -                 | 6,731,429         | -                  | -26,933,520        |
| <b>TOTALS, Capital Liabilities.....</b> | <b>3,911,627</b>            | <b>66,220,932</b> | <b>63,054,419</b> | <b>110,486,009</b> | <b>555,070,406</b> |

| Item.                                   | Manitoba.          | Saskat-<br>chewan. | Alberta.           | British<br>Columbia. | Total.               |
|-----------------------------------------|--------------------|--------------------|--------------------|----------------------|----------------------|
| <b>Capital Liabilities.</b>             | \$                 | \$                 | \$                 | \$                   | \$                   |
| <b>FUNDED DEBT—</b>                     |                    |                    |                    |                      |                      |
| Gross bonded or debenture debt.....     | 90,938,906         | 109,209,642        | 133,837,260        | 125,332,736          | 1,224,372,824        |
| Less sinking funds.....                 | -7,131,638         | -6,205,017         | -7,399,533         | -26,581,241          | -78,109,489          |
| Net bonded or debenture debt.....       | 83,807,268         | 103,004,625        | 126,437,727        | 98,751,495           | 1,146,263,335        |
| Treasury bills.....                     | 22,795,649         | 30,810,092         | 6,723,052          | 11,001,190           | 109,449,983          |
| <b>TOTALS, NET FUNDED DEBT.....</b>     | <b>106,602,917</b> | <b>133,814,717</b> | <b>133,160,779</b> | <b>109,752,685</b>   | <b>1,255,713,318</b> |
| <b>UNFUNDED OR FLOATING DEBT—</b>       |                    |                    |                    |                      |                      |
| Temporary loans.....                    | -                  | 339,434            | 3,050,000          | -                    | 16,760,217           |
| Savings deposits.....                   | -                  | -                  | 9,237,270          | -                    | 30,783,276           |
| Superannuation funds.....               | -                  | -                  | 1,714,891          | -                    | 6,849,600            |
| Accounts payable.....                   | 1,233,080          | 1,715,258          | 366,362            | -                    | 3,523,456            |
| Other miscellaneous.....                | -                  | -                  | 277,556            | 118,825 <sup>1</sup> | 2,929,911            |
| <b>TOTALS, UNFUNDED DEBT.....</b>       | <b>1,233,080</b>   | <b>2,054,692</b>   | <b>14,646,079</b>  | <b>118,825</b>       | <b>60,846,460</b>    |
| Dominion Government debt allowance...   | -                  | -                  | -                  | -                    | 847,000              |
| Reserves or surpluses.....              | 14,491,527         | 2,906,204          | 6,988,887          | 51,864,825           | 79,173,223           |
| Capital surplus.....                    | 32,231,853         | 40,179,320         | 328,094            | 52,020,338           | 104,557,514          |
| <b>TOTALS, Capital Liabilities.....</b> | <b>154,559,377</b> | <b>178,954,933</b> | <b>155,123,839</b> | <b>213,755,973</b>   | <b>1,501,137,515</b> |

<sup>1</sup> Mortgage B.C. House.

## 31.—Balance Sheets of the Provincial Governments

Note.—For dates on which the fiscal years

(AMENDED UNIFORM

## ASSETS.

| Item.                                                                   | Prince<br>Edward<br>Island. | Nova<br>Scotia.  | New<br>Brunswick. | Quebec. | Ontario.          |
|-------------------------------------------------------------------------|-----------------------------|------------------|-------------------|---------|-------------------|
|                                                                         | \$                          | \$               | \$                | \$      | \$                |
| <b>Income or Current Assets.</b>                                        |                             |                  |                   |         |                   |
| Cash on hand or in bank.....                                            | —                           | 57,408           | —                 | —       | 8,973,885         |
| Accrued interest on investments (less<br>reserves).....                 | —                           | 12,697           | —                 | —       | —                 |
| Tax arrears (less reserves).....                                        | —                           | —                | —                 | —       | —                 |
| Accounts receivable.....                                                | —                           | 2,030,007        | 1,389,293         | —       | 6,263,731         |
| Inventories, equipment, stores and<br>material (less depreciation)..... | —                           | 215,474          | —                 | —       | 2,248,029         |
| Other income or current assets.....                                     | —                           | 47,934           | 509,929           | —       | 10,000            |
| Income deficits.....                                                    | —                           | 3,483,879        | 941,907           | —       | —                 |
| <b>Totals, Income or Current Assets.....</b>                            | —                           | <b>5,847,399</b> | <b>2,841,129</b>  | —       | <b>17,495,645</b> |
| <b>Trust Account Assets.</b>                                            |                             |                  |                   |         |                   |
| Cash.....                                                               | 2,517                       | 36,940           | 382,363           | —       | —                 |
| Investments.....                                                        | 118,013                     | 306,346          | —                 | —       | —                 |
| School lands.....                                                       | —                           | —                | —                 | —       | —                 |
| Other trust account assets.....                                         | —                           | —                | —                 | —       | —                 |
| <b>Totals, Trust Account Assets.....</b>                                | <b>120,530</b>              | <b>343,286</b>   | <b>382,363</b>    | —       | —                 |

| Item.                                                                   | Manitoba.        | Saskatch-<br>ewan. | Alberta.          | British<br>Columbia. | Total.             |
|-------------------------------------------------------------------------|------------------|--------------------|-------------------|----------------------|--------------------|
|                                                                         | \$               | \$                 | \$                | \$                   | \$                 |
| <b>Income or Current Assets.</b>                                        |                  |                    |                   |                      |                    |
| Cash on hand or in bank.....                                            | 115,690          | 149,127            | 223,505           | 1,110,594            | 10,630,209         |
| Accrued interest on investments (less<br>reserves).....                 | 80,340           | 1,811,956          | 741,510           | —                    | 2,646,503          |
| Tax arrears (less reserves).....                                        | 517,870          | 3,093,374          | 2,538,541         | 5,665,201            | 11,814,986         |
| Accounts receivable.....                                                | 2,016,529        | 3,078,344          | 2,173,935         | 1,297,707            | 18,249,546         |
| Inventories, equipment, stores and<br>material (less depreciation)..... | 164,416          | 389,143            | 887,425           | —                    | 3,904,487          |
| Other income or current assets.....                                     | 54,963           | 2,184,282          | 604,430           | 481,089              | 3,892,627          |
| Income deficits.....                                                    | 1,895,851        | 5,322,746          | 11,574,932        | 53,498,148           | 76,717,463         |
| <b>Totals, Income or Current Assets.....</b>                            | <b>4,845,659</b> | <b>16,028,972</b>  | <b>18,744,278</b> | <b>62,052,739</b>    | <b>127,855,821</b> |
| <b>Trust Account Assets.</b>                                            |                  |                    |                   |                      |                    |
| Cash.....                                                               | 637,625          | 232,773            | 2,979,421         | 562,114              | 4,833,753          |
| Investments.....                                                        | 712,048          | 1,309,125          | 3,398,106         | 170,228              | 6,013,866          |
| School lands.....                                                       | —                | 4,952,545          | 16,734,245        | —                    | 21,686,790         |
| Other trust account assets.....                                         | —                | 362,232            | 4,787,765         | —                    | 5,149,997          |
| <b>Totals, Trust Account Assets.....</b>                                | <b>1,349,673</b> | <b>6,856,675</b>   | <b>27,899,537</b> | <b>732,342</b>       | <b>37,684,406</b>  |

<sup>1</sup> Due from Current Account.



for their respective fiscal years ended 1933—concluded.

of the Provinces end, see text at foot of p. 917.

CLASSIFICATION.)

LIABILITIES.

| Item.                                                                  | Prince<br>Edward<br>Island. | Nova<br>Scotia.  | New<br>Brunswick. | Quebec.          | Ontario.           |
|------------------------------------------------------------------------|-----------------------------|------------------|-------------------|------------------|--------------------|
|                                                                        | \$                          | \$               | \$                | \$               | \$                 |
| <b>Income or Current Liabilities.</b>                                  |                             |                  |                   |                  |                    |
| Accounts payable.....                                                  | —                           | 365,789          | 122,183           | —                | 535,202            |
| Interest accrued but not due.....                                      | —                           | 830,455          | 862,813           | —                | 9,166,389          |
| Sinking funds accrued but not due.....                                 | —                           | —                | 82,149            | —                | —                  |
| Other miscellaneous.....                                               | —                           | 3,020,604        | 1,604,091         | 1,982,966        | 2,422,785          |
| Due to capital.....                                                    | —                           | 1,630,551        | 169,893           | —                | —                  |
| Income surpluses.....                                                  | —                           | —                | —                 | —                | 5,371,269          |
| <b>Totals, Income or Current Liabilities..</b>                         | <b>—</b>                    | <b>5,847,399</b> | <b>2,841,129</b>  | <b>1,982,966</b> | <b>17,495,645</b>  |
| <b>Trust Account Liabilities.</b>                                      |                             |                  |                   |                  |                    |
| Trust totals.....                                                      | 120,530                     | 343,286          | 382,363           | 4,261,980        | —                  |
| Miscellaneous liabilities (estates of mentally incompetent, etc.)..... | —                           | —                | —                 | —                | —                  |
| <b>Totals, Trust Account Liabilities.....</b>                          | <b>120,530</b>              | <b>343,286</b>   | <b>382,363</b>    | <b>4,261,980</b> | <b>—</b>           |
| <b>INDIRECT OR CONTINGENT LIABILITIES—<sup>2</sup></b>                 |                             |                  |                   |                  |                    |
| <b>TOTALS, INDIRECT LIABILITIES.....</b>                               | <b>—</b>                    | <b>698,405</b>   | <b>1,462,000</b>  | <b>4,864,300</b> | <b>102,103,131</b> |

| Item.                                                                   | Manitoba.        | Saskatch-<br>ewan. | Alberta.          | British<br>Columbia. | Total.             |
|-------------------------------------------------------------------------|------------------|--------------------|-------------------|----------------------|--------------------|
|                                                                         | \$               | \$                 | \$                | \$                   | \$                 |
| <b>Income or Current Liabilities.</b>                                   |                  |                    |                   |                      |                    |
| Accounts payable.....                                                   | 56,450           | 21,938             | 185,889           | 4,017,916            | 5,305,417          |
| Interest accrued but not due.....                                       | 934,932          | 1,997,446          | 1,688,336         | 1,789,813            | 17,270,184         |
| Sinking funds accrued but not due.....                                  | —                | —                  | 483,550           | —                    | 565,699            |
| Other miscellaneous.....                                                | 3,757,627        | 1,244,556          | 374,861           | 7,252,807            | 21,660,297         |
| Due to capital.....                                                     | 96,650           | 12,764,982         | 16,011,642        | 45,992,203           | 79,665,921         |
| Income surpluses.....                                                   | —                | —                  | —                 | —                    | 5,371,269          |
| <b>Totals, Income or Current Liabilities..</b>                          | <b>4,845,659</b> | <b>16,028,972</b>  | <b>18,744,278</b> | <b>62,052,739</b>    | <b>129,838,787</b> |
| <b>Trust Account Liabilities.</b>                                       |                  |                    |                   |                      |                    |
| Trust totals.....                                                       | 1,115,015        | 1,904,130          | 26,796,623        | 732,342              | 35,656,269         |
| Miscellaneous liabilities, (estates of mentally incompetent, etc.)..... | 234,658          | 4,952,545          | 1,102,914         | —                    | 6,290,117          |
| <b>Totals, Trust Account Liabilities.....</b>                           | <b>1,349,673</b> | <b>6,856,675</b>   | <b>27,899,537</b> | <b>732,342</b>       | <b>41,946,386</b>  |
| <b>INDIRECT OR CONTINGENT LIABILITIES—<sup>2</sup></b>                  |                  |                    |                   |                      |                    |
| <b>TOTALS, INDIRECT LIABILITIES.....</b>                                | <b>8,501,820</b> | <b>33,933,480</b>  | <b>9,992,912</b>  | <b>68,137,857</b>    | <b>229,693,905</b> |

<sup>2</sup> Indirect or Contingent Liabilities do not enter the balance-sheet transactions; they include guarantees of bonds of, and loans to, railways, municipalities, and other organizations.

**Bonded Indebtedness of the Provinces.**—Of the total liabilities of the provinces the major part is represented by bonded debt owing to the public in Canada and abroad. The total gross bonded debt amounted to \$1,224,372,824 in 1933 as compared with only \$218,875,927 in 1916, an increase of over \$1,000,000,000 in the 17 years. In addition to this bonded debt there were treasury bills outstanding on provincial accounts amounting to \$109,449,983 for 1933. Figures of bonded debt for this and previous years to 1916 are given in Table 32. The rapid rise in the bonded debt of the provinces from \$218,875,927 in 1916 is accounted for largely by the development of public ownership of utilities (such as the "Hydro" in Ontario), the extension of the highways and good roads systems in all provinces (highway debentures outstanding in 1933 accounting for \$438,000,000 of the provincial debt), and the requirements for the promotion of industrial activities and public and social welfare. These demanded heavy expenditures which could not easily be met out of current revenue. The borrowings, while increasing the public debt, are in the main considered justifiable, as the public utilities are in most cases meeting from their revenues the interest on indebtedness incurred in their construction, and the provincial assets generally are sound enough to take care of capital investment for other services which are necessary to develop the country.

**32.—Gross Bonded Debt (Exclusive of Treasury Bills) of Provincial Governments, by Provinces, fiscal years 1916 to 1933.**

| Fiscal Year.            | Prince<br>Edward<br>Island. | Nova<br>Scotia. | New<br>Brunswick.       | Quebec.       | Ontario.                 |
|-------------------------|-----------------------------|-----------------|-------------------------|---------------|--------------------------|
| 1916.....               | \$ 733,000                  | \$ 13,443,087   | \$ 9,100,647            | \$ 38,346,128 | \$ 52,411,401            |
| 1917.....               | 733,000                     | 13,362,707      | 15,809,856              | 39,462,996    | 55,301,501               |
| 1918.....               | 733,000                     | 14,490,813      | 17,163,089              | 39,827,770    | 66,526,501               |
| 1919.....               | 733,000                     | 14,614,893      | 18,585,760              | 39,706,614    | 81,026,501               |
| 1920.....               | 733,000                     | 17,202,647      | 20,683,236              | 40,708,114    | 109,186,900              |
| 1921.....               | 858,000                     | 20,678,267      | 23,573,432              | 51,652,113    | 184,693,420              |
| 1922.....               | 1,033,000                   | 24,608,347      | 26,628,432              | 55,604,926    | 222,361,338              |
| 1923.....               | 1,183,000                   | 27,134,507      | 28,583,932              | 60,605,226    | 255,587,757              |
| 1924.....               | 1,683,000                   | 31,458,640      | 30,737,909              | 75,605,226    | 292,845,257              |
| 1925.....               | 1,833,000                   | 36,000,928      | 32,345,909              | 81,944,926    | 277,045,257              |
| 1926.....               | 1,873,000                   | 35,986,324      | 35,325,909              | 78,004,926    | 280,559,094              |
| 1927.....               | 1,933,000                   | 40,708,457      | 36,554,409              | 79,212,226    | 293,365,994              |
| 1928.....               | 2,185,000                   | 34,824,713      | 37,845,303              | 80,731,877    | 322,365,844              |
| 1929.....               | 2,109,000                   | 46,395,847      | 34,780,603              | 80,334,792    | 350,563,844              |
| 1930.....               | 2,329,000                   | 55,483,480      | 41,211,696              | 76,735,292    | 398,821,344              |
| 1931.....               | 2,104,000                   | 60,325,613      | 45,858,996              | 84,235,292    | 455,375,344              |
| 1932.....               | 3,504,000                   | 61,740,747      | 58,739,663 <sup>a</sup> | 91,987,692    | 499,986,011 <sup>a</sup> |
| 1933 <sup>a</sup> ..... | 3,754,000                   | 66,439,880      | 61,935,163              | 110,237,892   | 522,687,345              |

| Fiscal Year.            | Manitoba.     | Saskat-<br>chewan.      | Alberta.      | British<br>Columbia.     | Total.                     |
|-------------------------|---------------|-------------------------|---------------|--------------------------|----------------------------|
| 1916.....               | \$ 30,396,274 | \$ 24,292,044           | \$ 29,000,200 | \$ 21,153,146            | \$ 218,875,927             |
| 1917.....               | 31,196,870    | 25,439,187              | 30,595,200    | 23,153,146               | 235,054,463                |
| 1918.....               | 33,890,870    | 28,019,387              | 31,500,200    | 23,071,936               | 255,223,566                |
| 1919.....               | 36,897,870    | 29,963,410              | 34,635,200    | 27,571,936               | 283,735,184                |
| 1920.....               | 49,700,870    | 35,237,170              | 41,989,900    | 34,071,936               | 349,513,773                |
| 1921.....               | 61,929,870    | 41,785,436              | 59,010,257    | 46,511,436               | 490,692,231                |
| 1922.....               | 66,331,121    | 49,685,476              | 67,373,279    | 61,851,436               | 575,477,355                |
| 1923.....               | 67,914,095    | 52,807,876              | 78,522,279    | 65,851,436               | 638,190,108                |
| 1924.....               | 69,637,095    | 52,492,956              | 78,594,760    | 68,851,436               | 701,906,279                |
| 1925.....               | 66,658,595    | 50,493,376              | 81,459,407    | 76,443,736               | 704,225,134                |
| 1926.....               | 64,433,595    | 54,114,176 <sup>b</sup> | 86,894,666    | 71,485,736               | 708,677,426                |
| 1927.....               | 67,829,828    | 56,944,576              | 90,890,458    | 75,485,736               | 742,388,684                |
| 1928.....               | 69,822,828    | 58,309,256              | 90,899,816    | 72,275,736               | 769,260,373                |
| 1929.....               | 71,455,161    | 58,275,776              | 96,532,443    | 77,482,736               | 817,940,202                |
| 1930.....               | 76,641,161    | 73,667,316              | 106,888,380   | 87,365,236               | 919,142,905                |
| 1931.....               | 81,381,906    | 85,141,205              | 106,866,573   | 95,358,236               | 1,016,647,165              |
| 1932.....               | 89,630,906    | 101,831,236             | 128,970,593   | 111,932,236 <sup>a</sup> | 1,148,323,084 <sup>a</sup> |
| 1933 <sup>a</sup> ..... | 90,938,006    | 109,209,642             | 133,837,260   | 125,332,736 <sup>a</sup> | 1,224,372,824              |

<sup>a</sup> Liabilities statement is for April 30; this amount includes \$500,000 due May 1. <sup>a</sup> Subject to revision.

<sup>b</sup> Revised since the publication of the 1933 Year Book.

**Interest Payments and Receipts of the Provinces.**—The current burden of a debt in the case of a continuing organization is represented by interest payments, which may be offset in whole or in part by interest received on loans either to provincially-owned public utilities or to corporations or individual citizens. In a country where provincial public policy varies widely with regard to public ownership, it appears desirable to include a statement showing, for each province, the gross interest payments, the interest receipts and the net interest payments. This information is given for the provincial fiscal years ended in 1933 below:—

| Province.                 | Gross<br>Interest<br>Paid. | Interest<br>Received. | Net<br>Interest<br>Paid. | Net Interest<br>Paid<br>per Capita. |
|---------------------------|----------------------------|-----------------------|--------------------------|-------------------------------------|
|                           | \$                         | \$                    | \$                       | \$                                  |
| Prince Edward Island..... | 207,367                    | —                     | 207,367                  | 2.33                                |
| Nova Scotia.....          | 3,060,054                  | 920,676               | 2,139,378                | 4.10                                |
| New Brunswick.....        | 2,613,834                  | —                     | 2,613,834                | 6.22                                |
| Quebec.....               | 4,638,575                  | 927,751               | 3,710,824                | 1.25                                |
| Ontario.....              | 27,520,666                 | 12,903,342            | 14,617,324               | 4.15                                |
| Manitoba.....             | 5,660,135                  | 2,202,037             | 3,458,098                | 9.58                                |
| Saskatchewan.....         | 5,748,620                  | 2,285,096             | 3,463,524                | 3.64                                |
| Alberta.....              | 6,043,497                  | 1,729,073             | 4,314,424                | 5.70                                |
| British Columbia.....     | 7,054,044                  | 219,840               | 6,834,204                | 9.60                                |
| <b>Totals.....</b>        | <b>62,546,792</b>          | <b>21,187,815</b>     | <b>41,358,977</b>        | <b>3.88</b>                         |

### Section 3.—Municipal Public Finance.\*

The existence of local self-governing units has always been characteristic of democratic societies, and nowhere more so than in Canada. The struggle for responsible government was naturally accompanied by an agitation for local self-government in the cities and towns of Canada and, after responsible government had been conceded, a complete system of municipalities was established throughout the old Province of Canada by the Municipal Act of 1849.† Under the division of powers made by the British North America Act between the Dominion and the Provincial Governments, legislation regarding municipal government, being a local matter, was naturally assigned to the provinces, which differ considerably with regard to their types of municipal organization. Thus in Prince Edward Island the only incorporated municipalities are the city of Charlottetown and seven incorporated towns. In British Columbia seven of the 33 cities have fewer than 1,000 people, while there are no towns at all and only 17 villages; again, in the same province the rural districts are mainly administered from the provincial capital, there being only 28 rural municipalities. Finally, in Saskatchewan and Alberta there exist local improvement districts, areas which have not as yet been organized into rural municipalities, and where the taxes are levied, collected and expended by the Provincial Governments. Such districts, however, may be regarded as on the way to becoming self-governing rural municipalities and their statistics are therefore included in Table 33, which gives statistics of the numbers and types of municipalities in 1932.

\*Revised by Col. J. R. Munro, Chief of the Finance Branch of the Dominion Bureau of Statistics. This Branch issues statements on "Financial Statistics of Urban Municipalities of 10,000 Population and Over", on "Bonded Indebtedness of Municipalities" and on "Assessment Valuations of Municipalities". For a list of publications see Chapter XXIX, Section 1, under "Finance", (p. 1155).

†For a brief outline of the rise of the municipal system of Ontario, see 1922-23 Year Book, p. 103.

## 33.—Number of Municipalities in Canada, by Provinces and Classes, 1932.

| Province.          | Cities.    | Towns.     | Villages.    | Counties.       | Other Rural Municipalities. | Local Improvement Districts. | Suburban Municipalities. | Total.       |
|--------------------|------------|------------|--------------|-----------------|-----------------------------|------------------------------|--------------------------|--------------|
| P.E. Island.....   | 1          | 7          | —            | —               | —                           | —                            | —                        | 8            |
| Nova Scotia.....   | 2          | 43         | —            | 3               | 24                          | —                            | —                        | 69           |
| New Brunswick....  | 3          | 20         | 2            | 15              | —                           | —                            | —                        | 40           |
| Quebec.....        | 25         | 99         | 300          | 75              | 1,018                       | —                            | —                        | 1,517        |
| Ontario.....       | 28         | 146        | 156          | 38 <sup>1</sup> | 571 <sup>2</sup>            | —                            | —                        | 939          |
| Manitoba.....      | 4          | 30         | 22           | —               | 112                         | —                            | 5                        | 173          |
| Saskatchewan.....  | 8          | 80         | 385          | —               | 302                         | 84                           | —                        | 859          |
| Alberta.....       | 7          | 54         | 145          | —               | 163                         | 234                          | —                        | 603          |
| British Columbia.. | 33         | —          | 17           | —               | 28                          | —                            | —                        | 78           |
| <b>Canada.....</b> | <b>111</b> | <b>479</b> | <b>1,027</b> | <b>128</b>      | <b>2,218</b>                | <b>318</b>                   | <b>5</b>                 | <b>4,286</b> |

<sup>1</sup>There are 44 counties in all, geographically, but a number are united for municipal purposes.

<sup>2</sup>Officially known as "townships".

<sup>3</sup>Nova Scotia has 18 counties, some of which are "municipalities", while others are divided into "municipalities".

**Municipal Revenue from Taxation.**—The following statement showing receipts from current taxes, arrears and penalties, though incomplete, is the only information available dealing with this important subject.

## MUNICIPAL TAXATION RECEIPTS, BY PROVINCES, 1932.

|                                                                               | \$          |                                                   | \$                 |
|-------------------------------------------------------------------------------|-------------|---------------------------------------------------|--------------------|
| Prince Edward Island (Charlottetown only).....                                | 145,830     | Manitoba (tax collections).....                   | 17,290,888         |
| New Brunswick (St. John, Moncton and Fredericton only).....                   | 2,441,063   | Saskatchewan (tax collections).....               | 17,616,414         |
| Nova Scotia (incl. prov. highway tax for towns and rural municipalities)..... | 6,613,674   | Alberta (current tax collections).....            | 12,032,471         |
| Quebec (tax collections).....                                                 | 79,612,584  | British Columbia (land, road and poll taxes)..... | 17,089,972         |
| Ontario (taxation and rates).....                                             | 131,755,503 | <b>Total.....</b>                                 | <b>284,598,399</b> |

**Municipal Assessments.**—Throughout the Dominion, the chief basis of municipal tax revenue is the real estate within the limits of the municipalities; though in certain provinces personal property, income, and business carried on are also taxed. General taxes are normally assessed at the rate of so many mills on the dollar of the assessed valuations. In the Prairie Provinces, the values of improvements made to real property are often rated at a very low figure, *e.g.*, in Saskatchewan, where the taxable valuations of buildings are about 12 p.c. of the taxable valuations of lands, and in Alberta, where they are about 28 p.c. of the taxable valuations of lands, as shown in Table 34.

There are various reasons for fluctuations in assessment valuations, due to differences in laws and varying practices with regard to assessment as among provinces, as among classes of municipalities and as among municipalities of the same class from year to year. Such matters are more fully dealt with in the special report of the Bureau of Statistics on "Assessment Valuations by Provinces", obtainable on request.

Land valuations in the West, which in earlier years were somewhat inflated, have of late been assessed on a sounder basis, and in some provinces the Equalization Boards have placed a more equitable valuation on lands as among the various rural municipalities.



34.—Summary Statement Showing Total Assessment Valuations of Municipalities, by Provinces, for 1929-32—concluded on p. 934.

| Province.                         |             | Taxable Real Property.             |                                  |                                         |
|-----------------------------------|-------------|------------------------------------|----------------------------------|-----------------------------------------|
|                                   |             | Land.                              | Buildings.                       | Total.                                  |
|                                   |             | \$                                 | \$                               | \$                                      |
| Prince Edward Island.....         | 1929        | -                                  | -                                | 30,842,925                              |
|                                   | 1930        | -                                  | -                                | 31,492,665                              |
|                                   | 1931        | -                                  | -                                | 32,595,794                              |
|                                   | 1932        | -                                  | -                                | 33,679,705                              |
| Nova Scotia.....                  | 1929        | -                                  | -                                | 136,915,454 <sup>a</sup>                |
|                                   | 1930        | -                                  | -                                | 138,202,162 <sup>a</sup>                |
|                                   | 1931        | -                                  | -                                | 140,107,075 <sup>a</sup>                |
|                                   | 1932        | -                                  | -                                | 141,006,134 <sup>a</sup>                |
| New Brunswick.....                | 1929        | -                                  | -                                | 158,569,642                             |
|                                   | 1930        | -                                  | -                                | 126,468,634                             |
|                                   | 1931        | -                                  | -                                | 130,053,404                             |
|                                   | 1932        | -                                  | -                                | 127,865,063                             |
| Quebec.....                       | 1929        | -                                  | -                                | 2,354,494,461                           |
|                                   | 1930        | -                                  | -                                | 2,451,644,179                           |
|                                   | 1931        | -                                  | -                                | 2,210,942,541                           |
|                                   | 1932        | -                                  | -                                | 2,226,143,786                           |
| Ontario.....                      | 1929        | 1,291,803,654                      | 1,383,517,323                    | 2,675,320,977                           |
|                                   | 1930        | 1,314,778,176                      | 1,444,419,193                    | 2,759,197,369                           |
|                                   | 1931        | 1,327,606,008                      | 1,484,157,227                    | 2,811,763,235                           |
|                                   | 1932        | 1,322,677,599                      | 1,517,074,935                    | 2,839,752,534                           |
| Manitoba.....                     | 1929        | -                                  | -                                | 540,852,995                             |
|                                   | 1930        | -                                  | -                                | 541,847,002                             |
|                                   | 1931        | -                                  | -                                | 539,012,367                             |
|                                   | 1932        | -                                  | -                                | 536,413,841                             |
| Saskatchewan.....                 | 1929        | 974,028,206                        | 109,745,019                      | 1,083,773,225                           |
|                                   | 1930        | 976,232,540                        | 115,066,876                      | 1,091,299,416                           |
|                                   | 1931        | 972,490,470                        | 117,238,924                      | 1,089,729,394                           |
|                                   | 1932        | 968,674,804                        | 119,492,278                      | 1,088,167,082                           |
| Alberta.....                      | 1929        | 454,224,514 <sup>a</sup>           | 107,405,626 <sup>a</sup>         | 561,630,140 <sup>a</sup> , <sup>e</sup> |
|                                   | 1930        | 525,513,056                        | 119,904,827                      | 645,417,883                             |
|                                   | 1931        | 456,099,459 <sup>a</sup>           | 123,860,646 <sup>a</sup>         | 579,960,105 <sup>a</sup>                |
|                                   | 1932        | 446,925,085 <sup>a</sup>           | 124,194,862 <sup>a</sup>         | 571,119,947 <sup>a</sup>                |
| British Columbia.....             | 1929        | 307,514,698                        | 352,814,469                      | 660,329,167                             |
|                                   | 1930        | 307,772,090                        | 374,218,299                      | 681,990,389                             |
|                                   | 1931        | 303,667,022                        | 384,429,061                      | 688,096,083                             |
|                                   | 1932        | 293,986,938                        | 373,368,982                      | 677,355,920                             |
| <b>Totals, All Provinces.....</b> | <b>1929</b> | <b>3,027,571,072<sup>1,4</sup></b> | <b>1,953,482,437<sup>2</sup></b> | <b>8,202,728,966<sup>3,4</sup></b>      |
|                                   | <b>1930</b> | <b>3,124,295,862<sup>1</sup></b>   | <b>2,053,609,195<sup>1</sup></b> | <b>8,467,559,699<sup>3</sup></b>        |
|                                   | <b>1931</b> | <b>3,059,862,959<sup>1,4</sup></b> | <b>2,109,685,858<sup>1</sup></b> | <b>8,222,259,998<sup>3,4</sup></b>      |
|                                   | <b>1932</b> | <b>3,032,264,426<sup>1,4</sup></b> | <b>2,134,131,057<sup>1</sup></b> | <b>8,241,504,012<sup>3,4</sup></b>      |

For footnotes, see end of table, p. 934.

### 34.—Summary Statement Showing Total Assessment Valuations of Municipalities, by Provinces, for 1929-32—concluded.

| Province.                      | Personal Property.      | Income.                  | Other Taxable Valuations. | Total Taxable Valuations.  | Exempted Property. |
|--------------------------------|-------------------------|--------------------------|---------------------------|----------------------------|--------------------|
|                                | \$                      | \$                       | \$                        | \$                         | \$                 |
| Prince Edward Island.....1929  | 6,820,658               | 536,020                  | 75,850                    | 38,275,453                 | 1,944,000          |
| 1930                           | 7,413,475               | 425,016                  | 57,030                    | 39,388,186                 | 1,984,000          |
| 1931                           | 6,336,017               | 287,134                  | 83,495                    | 39,302,440                 | 1,828,000          |
| 1932                           | 5,350,022               | 222,739                  | 5,865 <sup>10</sup>       | 39,258,381                 | 1,826,000          |
| Nova Scotia.....1929           | 24,113,744 <sup>2</sup> | 1,698,572 <sup>3</sup>   | —                         | 162,638,650 <sup>4</sup>   | 40,135,244         |
| 1930                           | 23,986,731 <sup>2</sup> | 1,716,970 <sup>3</sup>   | —                         | 163,831,573 <sup>4</sup>   | 45,163,617         |
| 1931                           | 24,383,477 <sup>2</sup> | 1,522,600 <sup>3</sup>   | 11,267,770                | 177,215,514 <sup>4</sup>   | 48,119,429         |
| 1932                           | 23,897,409 <sup>2</sup> | 2,091,162 <sup>3</sup>   | 11,645,775                | 178,563,967 <sup>4</sup>   | 47,524,274         |
| New Brunswick.....1929         | 28,597,163              | —                        | —                         | 187,166,805                | —                  |
| 1930                           | 23,111,956              | —                        | —                         | 149,580,590                | —                  |
| 1931                           | 23,511,406              | —                        | —                         | 153,564,810                | —                  |
| 1932                           | 20,592,746              | —                        | —                         | 148,457,809                | —                  |
| Quebec.....1929                | —                       | —                        | 14,791,807                | 2,369,286,268              | 637,990,363        |
| 1930                           | —                       | —                        | 13,489,102                | 2,465,133,281              | 668,244,770        |
| 1931                           | —                       | —                        | 12,536,139                | 2,223,478,680              | 706,128,166        |
| 1932                           | —                       | —                        | 43,004,925                | 2,269,148,711              | 726,626,886        |
| Ontario.....1929               | —                       | 119,218,961              | 219,323,197               | 3,013,863,135 <sup>5</sup> | 488,724,668        |
| 1930                           | —                       | 135,092,197              | 232,243,536               | 3,126,533,102 <sup>5</sup> | 510,504,102        |
| 1931                           | —                       | 131,335,748              | 240,053,432               | 3,183,152,415 <sup>5</sup> | 536,535,708        |
| 1932                           | —                       | 123,027,653              | 244,615,989               | 3,207,396,156 <sup>5</sup> | 559,613,040        |
| Manitoba.....1929              | 10,296,733              | —                        | 10,439,762                | 561,589,490                | 144,991,311        |
| 1930                           | 11,273,173              | —                        | 10,573,874                | 563,694,049                | 147,666,868        |
| 1931                           | 7,656,667               | —                        | 10,434,095                | 557,103,129                | 156,793,923        |
| 1932                           | 5,989,568               | —                        | 9,892,955                 | 552,286,364                | 158,588,317        |
| Saskatchewan.....1929          | —                       | 2,473,384 <sup>6</sup>   | 45,599,072                | 1,131,845,681              | —                  |
| 1930                           | —                       | 2,048,005 <sup>6</sup>   | 46,067,839                | 1,139,415,260              | —                  |
| 1931                           | —                       | 1,205,209 <sup>6</sup>   | 43,526,172                | 1,134,460,775              | —                  |
| 1932                           | —                       | 400,074 <sup>6</sup>     | 40,880,396                | 1,129,447,552              | —                  |
| Alberta.....1929               | —                       | —                        | 8,981,640 <sup>4</sup>    | 570,611,780 <sup>4</sup>   | —                  |
| 1930                           | —                       | —                        | 10,785,735                | 656,203,618                | —                  |
| 1931                           | —                       | —                        | 15,785,012 <sup>4</sup>   | 595,745,117 <sup>4</sup>   | —                  |
| 1932                           | —                       | —                        | 18,304,253 <sup>4</sup>   | 589,424,200 <sup>4</sup>   | —                  |
| British Columbia.....1929      | —                       | —                        | —                         | 660,329,167                | 81,303,065         |
| 1930                           | —                       | —                        | —                         | 681,990,389                | 87,373,370         |
| 1931                           | —                       | —                        | —                         | 688,096,083                | 149,274,900        |
| 1932                           | —                       | —                        | —                         | 677,355,920                | 151,520,124        |
| Totals, All Provinces.....1929 | 69,833,299 <sup>2</sup> | 123,926,937 <sup>3</sup> | 299,211,328               | 8,695,606,429 <sup>4</sup> | 1,395,088,651      |
| 1930                           | 65,785,335 <sup>2</sup> | 139,282,188 <sup>3</sup> | 313,217,116               | 8,985,770,048 <sup>4</sup> | 1,460,936,727      |
| 1931                           | 61,887,567 <sup>2</sup> | 134,350,691 <sup>3</sup> | 333,636,115               | 8,752,118,963 <sup>4</sup> | 1,598,349,761      |
| 1932                           | 55,819,745 <sup>2</sup> | 125,741,628 <sup>3</sup> | 368,350,138               | 8,791,349,010 <sup>4</sup> | 1,645,698,641      |

<sup>1</sup>Less land and buildings for the Maritime Provinces, Quebec and Manitoba. <sup>2</sup>In N.S. personal property and income assessments for cities are for Sydney only. <sup>3</sup>Includes exemptions for municipality of Cumberland, Nova Scotia. <sup>4</sup>Local Improvement Districts not included in 1929, 1931 or 1932 in Alta. <sup>5</sup>In addition, assessments for schools only in Ontario were: townships \$2,730,538, towns and villages, \$23,719,597 and cities \$92,401,140 in 1929; townships \$3,125,660, towns and villages \$22,347,193 and cities \$86,780,452 in 1930; townships \$4,486,690, towns and villages \$20,499,195 and cities \$93,816,472 in 1931 and townships \$4,976,492, towns and villages \$13,249,670 and cities \$86,803,023 in 1932. <sup>6</sup>\$256,400 is by special franchise. <sup>7</sup>\$484,736 is by special franchise. <sup>8</sup>\$441,660 is by special franchise. <sup>9</sup>Includes special franchise (amount not stated). <sup>10</sup>One municipality showing \$80,000 odd assessment for 1931 did not report for 1932.

**Bonded Indebtedness.**—Like other Canadian governing bodies the municipalities of the greater part of Canada borrowed rather freely during the boom period of 1900-12, and again during the nineteen-twenties. The bonded indebtedness of Ontario municipalities rose from \$153,568,409 in 1913 to \$504,755,977 in 1932, while that of Quebec municipalities increased from \$173,720,141 in 1915 to \$463,891,860 in 1932, and a proportionate increase took place in other provinces. The recent growth in the bonded indebtedness of all classes of municipalities is shown by provinces in Table 35. The figures show that there was an increase in 1932 over 1931 in each of the provinces with the exceptions of Alberta and British Columbia. In Saskatchewan, net debenture debt is shown for all municipalities in 1919 and from 1920 on the statistics represent gross debenture debt. In Alberta in the earlier years, figures represent principally net debenture debt but from 1929 on gross debenture debt is shown. All other provinces give gross total debenture debt throughout.

**35.—Total Bonded Indebtedness of All Classes of Municipalities, by Provinces, 1919-32.**

| Year.     | Prince<br>Edward<br>Island. | Nova<br>Scotia. | New<br>Brunswick.       | Quebec.     | Ontario.    |
|-----------|-----------------------------|-----------------|-------------------------|-------------|-------------|
|           | \$                          | \$              | \$                      | \$          | \$          |
| 1919..... | 970,100 <sup>1</sup>        | 17,863,881      | 11,188,467 <sup>2</sup> | 199,937,246 | 243,226,877 |
| 1920..... | 1,086,500 <sup>1</sup>      | 19,192,462      | 10,841,466 <sup>2</sup> | 224,378,214 | 269,727,271 |
| 1921..... | 1,202,200 <sup>1</sup>      | 22,451,743      | 7,578,567 <sup>2</sup>  | 231,114,774 | 317,613,283 |
| 1922..... | 1,254,900 <sup>1</sup>      | 23,541,759      | 10,025,633 <sup>2</sup> | 247,063,013 | 349,276,606 |
| 1923..... | 1,290,800 <sup>1</sup>      | 24,248,782      | 7,974,362 <sup>2</sup>  | 261,101,892 | 376,512,002 |
| 1924..... | 1,143,550 <sup>1</sup>      | 25,348,664      | 17,350,225 <sup>2</sup> | 277,021,468 | 430,010,501 |
| 1925..... | 1,163,050 <sup>1</sup>      | 25,722,635      | 10,660,863 <sup>2</sup> | 281,419,750 | 405,178,853 |
| 1926..... | 1,247,545 <sup>1</sup>      | 26,281,152      | 17,091,550 <sup>2</sup> | 296,955,680 | 413,474,813 |
| 1927..... | 1,452,425 <sup>1</sup>      | 28,381,616      | 15,707,699 <sup>2</sup> | 313,638,581 | 434,464,056 |
| 1928..... | 1,515,125 <sup>1</sup>      | 29,049,412      | 19,584,335 <sup>2</sup> | 335,986,761 | 435,912,807 |
| 1929..... | 1,598,624 <sup>1</sup>      | 29,029,119      | 21,343,890 <sup>2</sup> | 352,520,078 | 451,936,592 |
| 1930..... | 1,863,211 <sup>1</sup>      | 30,182,264      | 20,942,988 <sup>2</sup> | 385,000,269 | 485,280,182 |
| 1931..... | 1,959,672 <sup>1</sup>      | 31,386,025      | 22,165,501 <sup>2</sup> | 428,018,439 | 499,002,074 |
| 1932..... | 2,129,350 <sup>1</sup>      | 31,606,140      | 24,752,873 <sup>2</sup> | 463,891,860 | 504,755,977 |

| Year.     | Manitoba.  | Saskat-<br>chewan. | Alberta.   | British<br>Columbia. | Total.                     |
|-----------|------------|--------------------|------------|----------------------|----------------------------|
|           | \$         | \$                 | \$         | \$                   | \$                         |
| 1919..... | 55,562,788 | 39,585,388         | 66,870,464 | 94,741,615           | 729,946,826 <sup>2</sup>   |
| 1920..... | 57,820,588 | 40,611,271         | 57,205,275 | 96,107,911           | 776,970,958 <sup>2</sup>   |
| 1921..... | 65,463,239 | 41,180,255         | 53,429,558 | 97,495,984           | 837,529,603 <sup>2</sup>   |
| 1922..... | 68,811,040 | 59,719,165         | 60,832,650 | 98,761,630           | 919,286,396 <sup>2</sup>   |
| 1923..... | 73,908,963 | 59,011,174         | 70,999,611 | 96,273,987           | 971,321,573 <sup>2</sup>   |
| 1924..... | 73,944,105 | 57,763,699         | 65,414,317 | 96,106,151           | 1,044,102,680 <sup>2</sup> |
| 1925..... | 79,211,867 | 55,835,505         | 57,908,593 | 99,055,201           | 1,016,156,317 <sup>2</sup> |
| 1926..... | 80,716,272 | 54,844,759         | 56,950,712 | 102,853,228          | 1,050,415,711 <sup>2</sup> |
| 1927..... | 83,017,302 | 54,361,158         | 62,414,660 | 107,376,118          | 1,100,813,615 <sup>2</sup> |
| 1928..... | 85,651,906 | 53,092,330         | 63,428,853 | 110,124,819          | 1,134,346,348 <sup>2</sup> |
| 1929..... | 85,901,404 | 54,913,100         | 78,473,392 | 118,483,618          | 1,194,199,817 <sup>2</sup> |
| 1930..... | 84,879,707 | 59,000,183         | 78,645,803 | 125,832,088          | 1,271,626,695 <sup>2</sup> |
| 1931..... | 91,615,195 | 59,146,592         | 78,679,571 | 129,913,890          | 1,341,886,959 <sup>2</sup> |
| 1932..... | 92,471,256 | 59,238,281         | 76,892,413 | 129,332,791          | 1,385,070,941 <sup>2</sup> |

<sup>1</sup>Municipalities included are not enumerated in the years 1919-23; figures represent Charlottetown and Kensington 1924-32; Montague for 1925-32; Summerside, Souris, Georgetown and Alberton 1926-32 and Borden 1932. For the latest year the figures include all eight incorporated municipalities of the province.

<sup>2</sup> Municipalities included are not enumerated in the years 1919-23; figures are for 3 cities, 18 towns, 2 villages and 15 counties in 1924; 2 cities, 13 towns, 3 villages and 15 counties in 1925; 3 cities, 18 towns, 1 village and 15 counties in 1926; 3 cities, 23 towns, 4 villages and 15 counties in 1927, 1928 and 1929; 3 cities, 19 towns, 2 villages and 15 counties in 1930 and 1931; 20 towns, 2 villages and 15 counties in 1931 and 1932.

<sup>3</sup>See footnotes 1 and 2.

**36.—Principal Financial and Other Statistics of Canadian Cities and Towns with Populations of 10,000 and Over, 1932.**

| Province and City.                          | Area.  | Popu-<br>lation<br>as Furn-<br>ished<br>by Muni-<br>cipality. | Total<br>Assessed<br>Value of<br>Taxable<br>Property. | Grand<br>Total<br>Receipts. | Grand<br>Total<br>Expendi-<br>tures. | Total<br>Assets. | Total<br>Liabilities. |
|---------------------------------------------|--------|---------------------------------------------------------------|-------------------------------------------------------|-----------------------------|--------------------------------------|------------------|-----------------------|
|                                             | acres. | No.                                                           | \$                                                    | \$                          | \$                                   | \$               | \$                    |
| Prince Edward Island—<br>Charlottetown..... | 832    | 13,387                                                        | 8,807,163                                             | 323,904                     | 391,297                              | 2,707,644        | 2,133,541             |
| Nova Scotia—<br>Halifax.....                | 4,403  | 59,275 <sup>1</sup>                                           | 59,942,925                                            | 3,530,724                   | 3,530,725                            | 19,770,549       | 19,770,549            |
| Sydney.....                                 | 3,731  | 25,000                                                        | 12,925,862                                            | 1,858,380                   | 1,858,380                            | 5,722,187        | 5,722,187             |
| Glace Bay.....                              | 6,202  | 20,706 <sup>1</sup>                                           | 5,272,255                                             | 807,799                     | 831,909                              | 2,536,632        | 1,944,972             |
| New Brunswick—<br>Saint John.....           | 13,440 | 47,514 <sup>1</sup>                                           | 50,220,000                                            | 4,134,864                   | 4,050,564                            | 14,547,914       | 9,406,705             |
| Moncton.....                                | 2,093  | 21,169                                                        | 24,307,723                                            | 1,364,692                   | 1,364,692                            | 6,579,267        | 6,028,719             |

<sup>1</sup>Census of 1931.

### 36.—Principal Financial and Other Statistics of Canadian Cities and Towns with Populations of 10,000 and Over, 1932—concluded.

| Province and City.       | Area.  | Population as Furnished by Municipality. | Total Assessed Value of Taxable Property. | Grand Total Receipts. | Grand Total Expenditures. | Total Assets.           | Total Liabilities.      |
|--------------------------|--------|------------------------------------------|-------------------------------------------|-----------------------|---------------------------|-------------------------|-------------------------|
|                          | acres. | No.                                      | \$                                        | \$                    | \$                        | \$                      | \$                      |
| <b>Quebec—</b>           |        |                                          |                                           |                       |                           |                         |                         |
| Montreal.....            | 32,254 | 833,000                                  | 1,013,447,369                             | 145,785,365           | 145,842,669               | 277,918,207             | 339,770,150             |
| Quebec.....              | 5,754  | 142,500                                  | 125,947,445                               | 18,125,061            | 18,057,991                | 38,553,026              | 44,085,556              |
| Verdun.....              | 1,426  | 60,745                                   | 41,923,760                                | 3,436,789             | 3,545,836                 | 13,898,742              | 13,684,646              |
| Three Rivers.....        | 2,560  | 40,000                                   | 28,984,275                                | 3,771,358             | 3,743,965                 | 13,370,353              | 13,475,913              |
| Sherbrooke.....          | 3,104  | 29,769                                   | 26,949,200                                | 2,752,918             | 2,816,338                 | 13,757,853              | 10,725,770              |
| Hull.....                | 4,000  | 29,432                                   | 21,088,419                                | 1,428,643             | 1,433,023                 | 5,054,019               | 5,384,934               |
| Outremont.....           | 975    | 28,500                                   | 43,117,845                                | 1,365,848             | 1,577,304                 | 6,620,158               | 9,016,654               |
| Westmount.....           | 976    | 26,000                                   | 72,095,455                                | 3,440,873             | 3,319,094                 | 11,962,473              | 13,591,055              |
| Lachine.....             | 2,996  | 18,838                                   | 27,671,062                                | 1,619,837             | 1,571,682                 | 7,052,388               | 8,775,788               |
| Shawinigan Falls.....    | 1,280  | 16,221                                   | 25,522,308                                | 1,707,250             | 1,749,406                 | 5,425,453               | 6,024,221               |
| St. Hyacinthe.....       | 1,091  | 13,817                                   | 12,692,386                                | 643,465               | 639,235                   | 2,134,553               | 1,813,346               |
| Valleyfield.....         | 600    | 13,021                                   | 6,593,389                                 | 578,272               | 542,200                   | 1,269,247               | 1,186,590               |
| Chicoutimi.....          | 1,700  | 12,135                                   | 6,348,711                                 | 1,490,900             | 1,495,926                 | 2,607,967               | 2,758,197               |
| Lévis.....               | 2,222  | 11,912                                   | 6,235,753                                 | 445,791               | 479,395                   | 1,627,652               | 1,438,450               |
| St. Jean.....            | 1,331  | 11,676                                   | 11,717,511                                | 648,075               | 645,361                   | 2,153,218               | 1,724,732               |
| Joliette.....            | 1,288  | 11,346                                   | 5,661,331                                 | 407,689               | 432,828                   | 2,363,417               | 1,654,732               |
| Granby.....              | 960    | 10,700                                   | 5,767,123                                 | 370,440               | 378,499                   | 1,408,875               | 1,006,422               |
| Sorel.....               | 2,000  | 10,182                                   | 3,988,775                                 | 467,711               | 449,035                   | 1,264,102               | 1,647,797               |
| Thetford Mines.....      | 2,080  | 10,139                                   | 6,199,850                                 | 390,229               | 388,880                   | 1,094,793               | 603,465                 |
| <b>Ontario—</b>          |        |                                          |                                           |                       |                           |                         |                         |
| Toronto.....             | 17,162 | 627,231                                  | 1,063,798,134                             | 43,147,558            | 42,732,700                | 217,953,736             | 211,072,331             |
| Hamilton.....            | 9,272  | 154,701                                  | 171,729,910                               | 9,224,179             | 9,712,763                 | 64,190,306              | 43,335,116              |
| Ottawa.....              | 4,120  | 130,672                                  | 162,878,166                               | 7,008,641             | 7,176,270                 | 41,909,007              | 28,769,420              |
| London.....              | 7,231  | 73,173                                   | 87,569,957                                | 3,952,283             | 4,018,959                 | 20,508,805              | 17,768,395              |
| Windsor.....             | 3,209  | 65,565                                   | 89,215,500                                | 4,539,123             | 4,835,065                 | 21,260,706              | 20,319,934              |
| Kitchener.....           | 2,933  | 31,443                                   | 26,844,578                                | 1,731,643             | 1,719,760                 | 7,389,230               | 5,254,851               |
| Brantford.....           | 3,159  | 30,724                                   | 28,560,680                                | 1,731,039             | 1,604,909                 | 6,800,829               | 6,210,204               |
| St. Catharines.....      | 1,900  | 26,192                                   | 25,115,575                                | 1,461,683             | 1,467,569                 | 6,378,531               | 6,146,081               |
| Fort William.....        | 9,865  | 25,188                                   | 32,909,778                                | 1,560,053             | 1,536,734                 | 12,532,729              | 12,295,474              |
| Sault Ste. Marie.....    | 4,900  | 23,480                                   | 20,257,887                                | 1,091,915             | 1,061,043                 | 7,208,039               | 6,422,167               |
| Kingston.....            | 2,965  | 23,260                                   | 17,439,244                                | 1,123,481             | 1,123,242                 | 4,948,670               | 4,239,008               |
| Oshawa.....              | 3,356  | 23,002                                   | 16,901,840                                | 1,109,787             | 1,122,081                 | 5,817,693               | 5,812,109               |
| Peterborough.....        | 2,848  | 22,809                                   | 25,229,955                                | 1,023,412             | 1,070,390                 | 8,974,439               | 7,525,744               |
| Guelph.....              | 3,104  | 20,754                                   | 14,479,922                                | 1,178,188             | 1,150,725                 | 8,109,431               | 4,609,448               |
| Port Arthur.....         | 8,700  | 19,749                                   | 26,716,215                                | 1,364,191             | 1,299,320                 | 14,898,369              | 12,722,330              |
| Sudbury.....             | 2,710  | 19,631                                   | 12,944,840                                | 795,213               | 987,394                   | 5,690,027               | 4,449,478               |
| Stratford.....           | 2,835  | 18,869                                   | 15,408,767                                | 860,939               | 848,579                   | 6,823,621               | 4,027,753               |
| Niagara Falls.....       | 1,655  | 18,507                                   | 16,851,932                                | 1,281,597             | 1,348,404                 | 4,253,689               | 4,171,425               |
| Sarnia.....              | 1,770  | 17,801                                   | 18,530,851                                | 1,094,561             | 955,662                   | 4,696,860               | 3,128,225               |
| St. Thomas.....          | 1,800  | 16,275                                   | 17,101,913                                | 877,868               | 978,146                   | 4,601,978               | 2,242,071               |
| North Bay.....           | 2,100  | 16,236                                   | 9,954,717                                 | 974,250               | 1,023,139                 | 6,909,726               | 3,215,879               |
| Chatham.....             | 1,650  | 16,223                                   | 14,625,630                                | 790,330               | 786,188                   | 2,222,845               | 1,199,623               |
| East Windsor.....        | 1,677  | 14,333                                   | 22,002,475                                | 1,203,330             | 1,064,933                 | 7,251,578               | 7,205,977               |
| Belleville.....          | 1,800  | 14,059                                   | 10,500,058                                | 871,736               | 700,115                   | 4,811,708               | 3,880,398               |
| Galt.....                | 1,600  | 14,036                                   | 11,274,605                                | 680,769               | 671,478                   | 4,822,967               | 4,157,759               |
| Timmins.....             | 780    | 13,975                                   | 6,491,952                                 | 608,303               | 582,121                   | 1,285,830               | 1,164,584               |
| Owen Sound.....          | 2,909  | 12,803                                   | 8,654,040                                 | 635,291               | 699,675                   | 3,416,630               | 1,762,044               |
| Cornwall.....            | 700    | 11,344                                   | 9,437,870                                 | 423,194               | 368,386                   | 1,462,016               | 829,552                 |
| Sandwich.....            | 2,033  | 11,017                                   | 15,910,617                                | 699,697               | 509,663                   | 4,130,589               | 3,842,391               |
| Woodstock.....           | 1,525  | 10,956                                   | 7,795,227                                 | 596,415               | 513,814                   | 2,396,901               | 1,507,166               |
| Walkerville.....         | 1,000  | 10,681                                   | 17,410,191                                | 940,561               | 1,015,762                 | 5,025,473               | 3,709,371               |
| Welland.....             | 1,100  | 10,668                                   | 9,793,465                                 | 568,614               | 583,504                   | 4,227,865               | 2,628,417               |
| <b>Manitoba—</b>         |        |                                          |                                           |                       |                           |                         |                         |
| Winnipeg.....            | 15,315 | 218,785 <sup>1</sup>                     | 246,725,143                               | —                     | —                         | 37,424,564 <sup>2</sup> | 66,570,387 <sup>3</sup> |
| Brandon.....             | 5,427  | 17,082 <sup>1</sup>                      | 13,382,028                                | —                     | —                         | 3,467,145 <sup>2</sup>  | 3,514,209 <sup>3</sup>  |
| St. Boniface.....        | 11,642 | 16,305 <sup>1</sup>                      | 13,387,089                                | —                     | —                         | 5,065,010 <sup>2</sup>  | 4,893,661 <sup>3</sup>  |
| <b>Saskatchewan—</b>     |        |                                          |                                           |                       |                           |                         |                         |
| Regina.....              | 8,404  | 54,000                                   | 46,465,075                                | 6,392,550             | 6,714,266                 | 26,111,057              | 13,201,264              |
| Saskatoon.....           | 8,000  | 44,000                                   | 35,113,354                                | 5,217,679             | 4,950,027                 | 19,801,360              | 12,808,569              |
| Moose Jaw.....           | 9,410  | 21,350                                   | 20,059,160                                | 2,081,990             | 2,184,577                 | 12,662,413              | 7,067,096               |
| <b>Alberta—</b>          |        |                                          |                                           |                       |                           |                         |                         |
| Calgary.....             | 25,920 | 83,362                                   | 70,824,156                                | 5,647,542             | 5,683,585                 | —                       | 29,962,158              |
| Edmonton.....            | 27,200 | 78,387                                   | 66,099,395                                | 8,855,236             | 8,136,534                 | —                       | 42,727,127              |
| Lethbridge.....          | 6,944  | 14,000                                   | 10,175,180                                | 857,695               | 810,967                   | —                       | 4,469,588               |
| Medicine Hat.....        | 10,880 | 10,300                                   | 9,883,500                                 | 878,255               | 738,724                   | —                       | 2,239,538               |
| <b>British Columbia—</b> |        |                                          |                                           |                       |                           |                         |                         |
| Vancouver.....           | 27,965 | 246,593                                  | 369,954,946                               | 13,469,823            | 15,933,423                | —                       | 85,024,582              |
| Victoria.....            | 4,637  | 39,082                                   | 55,175,781                                | 2,942,837             | 3,112,486                 | —                       | 18,160,964              |
| New Westminster.....     | 3,481  | 17,524                                   | 21,953,535                                | 1,302,802             | 1,307,951                 | —                       | 6,884,669               |

<sup>1</sup>Census of 1931. <sup>2</sup>Arrears of taxes and sinking fund. <sup>3</sup>Debentures outstanding.



## Section 4.—National Wealth and Income.

### Subsection 1.—National Wealth.

There are several methods of computing national wealth, *i.e.*, the aggregate value of the public and private property within the nation apart from undeveloped natural resources. Perhaps the most familiar of these methods is that of working back to capital values through income tax returns, but this can be applied only in countries where small incomes are assessed for income tax. A second method is that of estimation from probate returns, the value of the estates of deceased persons being regarded as representative. A third is that of a complete census, based upon a canvas of the individual. In the accompanying tables a fourth method, namely, the so-called "inventory" method, is employed; it consists in totalling the amounts known from various sources to be invested in agriculture, manufactures, dwellings, etc.

Whatever method is used, difficulty arises when we try to reduce all the things which go to make up wealth (things which once created are not themselves subject to violent change) to a common denominator. Estimates of national wealth must always be expressed in terms of the national currency and thus normally in terms of gold dollars. Yet the purchasing power of the currency unit is always fluctuating and since 1929 has increased by more than 50 p.c. in terms of wholesale prices. Even in 1930, the average index number of wholesale prices was down by nearly 10 p.c. from 1929, while in December of that year the average index number of wholesale prices was 19 p.c. lower than in the same month of 1929.

The effect of such drastic reductions in values is first felt by the commodities which are being currently produced and, through these commodities, the dollar value of production is diminished and consequently the national income of a country where most people are producers. Ultimately a persistent decline of this character affects the capital values of real estate, buildings, machinery, etc., and its influence is then felt in a reduction in the national wealth as stated in dollars. The 1929 estimate, which is considered to represent values in that year with approximate accuracy, is the latest which has been compiled by the Bureau of Statistics and the table below shows the national wealth on that basis.

The survey for 1929 placed the estimated aggregate of the tangible wealth of the Dominion, exclusive of undeveloped natural resources, at \$30,840,000,000 as compared with \$29,630,000,000 in 1928, \$27,668,000,000 in 1927, \$26,691,482,000 in 1926, \$25,673,174,000 in 1925 and \$22,195,302,000 in 1921. These figures, however, are not exactly comparable, in view of certain improvements and additions that have been made in the method of estimation and in the items included. An increase of \$1,210,000,000 was shown in the national wealth in the year 1929, and of over \$8,600,000,000 in the eight years 1921 to 1929.

**Aggregate and Per Capita Wealth of the Provinces, 1929.**—As regards the provincial distribution of wealth, Ontario ranked first with estimated aggregate wealth of \$10,628,000,000 or 34.46 p.c. of the total and Quebec second with estimated wealth of \$8,265,000,000 or 26.8 p.c. of the whole. Saskatchewan was third, with estimated wealth of \$3,047,000,000 or 9.88 p.c. of the total for the Dominion.

While Ontario led in absolute wealth, the western provinces came first in per capita wealth; British Columbia held first rank with a per capita wealth of \$4,012; Alberta second with \$3,518; Saskatchewan third with \$3,451 and Manitoba sixth with \$2,910. These figures may be compared with \$3,188 and \$2,982, the per capita wealth of Ontario and Quebec respectively, and \$3,076, the per capita wealth for the whole Dominion. Further details are furnished in Table 37.

As the statistics of population and wealth for Yukon are uncertain, the per capita estimate of wealth is open to question and has not been shown.

### 37.—Provincial Distribution of the National Wealth of Canada, with Percentage and Per Capita Analyses, 1929.

NOTE.—Figures for 1921 and 1925 are given on pp. 849-850 of the 1927-28 Year Book, for 1926 on p. 827 of the 1930 Year Book, for 1927 on p. 870 of the 1931 Year Book and for 1928 on p. 870 of the 1933 Year Book.

| Province.                 | Estimated<br>Wealth.  | Percentage<br>Distribu-<br>tion of<br>Wealth. | Estimated<br>Population<br>June 1. | Percentage<br>Distribu-<br>tion of<br>Population. | Wealth<br>per<br>capita. <sup>3</sup> |
|---------------------------|-----------------------|-----------------------------------------------|------------------------------------|---------------------------------------------------|---------------------------------------|
|                           | \$                    | p.c.                                          | No.                                | p.c.                                              | \$                                    |
| Prince Edward Island..... | 164,000,000           | 0.53                                          | 88,000                             | 0.88                                              | 1,864                                 |
| Nova Scotia.....          | 911,000,000           | 2.95                                          | 515,000                            | 5.14                                              | 1,769                                 |
| New Brunswick.....        | 788,000,000           | 2.56                                          | 404,000                            | 4.03                                              | 1,950                                 |
| Quebec.....               | 8,265,000,000         | 26.80                                         | 2,772,000                          | 27.64                                             | 2,982                                 |
| Ontario.....              | 10,628,000,000        | 34.46                                         | 3,334,000                          | 33.25                                             | 3,188                                 |
| Manitoba.....             | 1,970,000,000         | 6.39                                          | 677,000                            | 6.75                                              | 2,910                                 |
| Saskatchewan.....         | 3,047,000,000         | 9.88                                          | 883,000                            | 8.81                                              | 3,451                                 |
| Alberta.....              | 2,406,000,000         | 7.80                                          | 684,000                            | 6.82                                              | 3,518                                 |
| British Columbia.....     | 2,644,000,000         | 8.57                                          | 659,000                            | 6.57                                              | 4,012                                 |
| Yukon.....                | 17,000,000            | 0.06                                          | 4,000                              | 0.04                                              | <sup>2</sup>                          |
| <b>Totals.....</b>        | <b>30,840,000,000</b> | <b>100.00</b>                                 | <b>10,027,000<sup>1</sup></b>      | <b>100.00<sup>1</sup></b>                         | <b>3,076</b>                          |

<sup>1</sup>Includes 7,000 population in the Northwest Territories or 0.07 p.c.

<sup>2</sup>As the statistics of population and wealth for Yukon are uncertain, the per capita estimate of wealth is open to question and has not been shown. <sup>3</sup>Per capita figures are worked out on the basis of revised populations, see p. 164.

**Wealth of Canada, by Items, 1929.**—In the items included in Table 38, all duplications have been excluded. In any consideration of the individual items it should be remembered that each item covers only the portion of wealth which is mentioned in the description of the item. For example, the item of fisheries includes only capital invested in primary operations, while capital invested in fish-canning and -curing establishments is included under manufactures, though it might also be considered as part of the wealth connected with fisheries. In the same way, the items for manufactures do not include lands and buildings in urban centres, which are shown under the heading of urban real property.

### 38.—Estimate of the National Wealth of Canada, with Percentage and Per Capita Distribution of Component Items, 1929.

NOTE.—For discussion of these items, see p. 871 of the 1933 Year Book.

| Classification of Wealth.                                                                                                                     | Aggregate Amount.     | Percentage of Total. | Average Amount per head of Population. <sup>3</sup> |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------|-----------------------------------------------------|
|                                                                                                                                               | \$                    | p.c.                 | \$                                                  |
| Farm values (land, buildings, implements, machinery and live stock).....                                                                      | 6,308,353,000         | 20.45                | 629.14                                              |
| Agricultural products in the possession of farmers and traders..                                                                              | 1,631,124,000         | 5.29                 | 162.67                                              |
| Totals, Agricultural Wealth.....                                                                                                              | 7,939,477,000         | 25.74                | 791.81                                              |
| Mines (capital employed).....                                                                                                                 | 867,021,000           | 2.81                 | 86.47                                               |
| Forests (estimated value of accessible raw materials, pulpwood and capital invested in woods operations).....                                 | 1,877,000 000         | 6.09                 | 187.19                                              |
| Fisheries (capital invested in boats, gear, etc., in primary operations).....                                                                 | 33,935,000            | 0.11                 | 3.39                                                |
| Central electric stations (capital invested in equipment, materials, etc.).....                                                               | 554,327,000           | 1.80                 | 55.28                                               |
| Manufactures (machinery and tools, and estimate for capital in rural lands and buildings, duplication excluded).....                          | 1,418,040,000         | 4.60                 | 141.42                                              |
| Manufactures (materials on hand and stocks in process, duplication excluded).....                                                             | 837,805,000           | 2.72                 | 83.55                                               |
| Construction, custom and repair (estimate of capital invested in machinery and tools and materials on hand).....                              | 137,685,000           | 0.45                 | 13.73                                               |
| Trading establishments (estimate of the value of furniture and fixtures, delivery equipment and materials on hand).....                       | 1,136,291,000         | 3.68                 | 113.32                                              |
| Steam railways (investment in road and equipment).....                                                                                        | 3,153,351,000         | 10.22                | 314.49                                              |
| Electric railways (investment in road and equipment).....                                                                                     | 240,111,000           | 0.78                 | 23.95                                               |
| Telephones (cost of property and equipment).....                                                                                              | 291,589,000           | 0.95                 | 29.08                                               |
| Urban real property (assessed valuations and exempted property and estimate for undervaluation by assessors and for roads, sewers, etc.)..... | 8,251,011,000         | 26.75                | 822.88                                              |
| Canals (amount expended on construction to Mar. 31, 1930).....                                                                                | 241,946,000           | 0.79                 | 24.13                                               |
| Harbours (approximate amount expended to Mar. 31, 1930) <sup>1</sup> ....                                                                     | 367,488,000           | 1.19                 | 36.65                                               |
| Shipping (including aircraft) <sup>2</sup> .....                                                                                              | 149,306,000           | 0.48                 | 14.89                                               |
| Imported merchandise in store (estimated at one-half imports during 1929).....                                                                | 649,477,000           | 2.11                 | 64.77                                               |
| Automobiles (estimate of the value of automobiles registered)....                                                                             | 758,424,000           | 2.46                 | 75.64                                               |
| Highways, etc. <sup>1</sup> .....                                                                                                             | 364,896,000           | 1.18                 | 36.39                                               |
| Household furnishings, clothing, etc. (value estimated from production and trade statistics).....                                             | 1,370,000,000         | 4.44                 | 136.63                                              |
| Specie, coin and other currency held by the Government, chartered banks and the general public.....                                           | 201,030,000           | 0.65                 | 20.06                                               |
| <b>Grand Totals.....</b>                                                                                                                      | <b>30,840,210,000</b> | <b>100.00</b>        | <b>3,075.72</b>                                     |

<sup>1</sup>This class of wealth was not included in estimates published for previous years in earlier editions of the Year Book.

<sup>2</sup>The total for "shipping" includes, for the first time, an estimate for aircraft amounting to \$2,398,000 for 1929.

<sup>3</sup>See Table 37 for the revised estimate of population upon which these per capita figures are based.

**Analyses by Provinces and Classes of Wealth.**—In Table 37 on pp. 873-874 of the 1933 Year Book will be found detailed statistics of the wealth of each province by leading items. Again the suggestive character rather than the strict accuracy of such data must be emphasized. The specie holdings, for instance, are distributed among the provinces according to their populations, since they are an asset of Canada as a whole rather than of the particular locality in which they happen to be deposited.

### Subsection 2.—National Income and Income Tax Statistics.

"The annual labour of every nation is the fund which originally supplies it with all the necessities and conveniences of life which it annually consumes, and which consist always either in the immediate produce of that labour, or in what is purchased with that produce from other nations."—ADAM SMITH. This is perhaps the earliest modern definition of *national income*, and is still among the best, when it is interpreted in accordance with modern knowledge regarding the balance of international payments and the necessity of keeping productive equipment in running order. It must also be remembered that while the national income consists in goods and services of the most varied kinds, its total amount can be stated only in terms of money.

**The Difficulty of Measuring National Income.**—The precise statistical measurement of the national income is, however, a matter of insurmountable difficulty, and the most indefatigable research into all the relevant statistics, in order to establish a figure of national income, must always leave an appreciable margin of error. Indeed, it is no easy matter even for an individual to establish an accurate money figure as representing his *total* income, especially where he has to include in that total income, besides his cash income, an allowance for the rental value of his (owned) house and his durable belongings therein, together with an allowance for the money value of the commodities produced and consumed within the family, (such as eggs and garden produce) and of the services, ordinarily bought and sold, but rendered gratis within the family circle. Yet this is the only way of obtaining the total income of the family. While such income, not received directly in money, but in commodities produced and services rendered, is not, except for house and furniture rent, an important percentage of the family income in most urban families, it constitutes a very important part of the income of most rural families, who to a much larger extent consume the commodities which they themselves produce. For this reason, indeed, comparisons between the incomes of urban families and rural families are often misleading, through not allowing for the non-money income of the latter. Certainly most people never think of their non-money income as income at all, and would never dream of putting the rental value of their owned homes into their income tax returns. Indeed, the income tax authorities of Canada do not expect them to do so.

Any difficulties experienced in expressing the total income of an individual as a single figure are multiplied a million-fold in any attempt to express the total of the national income as a single figure. The individual and corporate incomes which are to be combined into this grand total *without duplication*, are of such a heterogeneous character that any figure which may be given as the grand total of the national income must include some margin of error. For example, the total of the national income must include the rental value of owned houses, and the value of the commodities raised on the 728,000 farms of Canada and consumed on the farms where they are produced, the value of the flowers raised in a million private gardens, and the value of innumerable services which in special cases are performed within the family, or by the individual for himself, although more ordinarily bought and sold.



Yet the labour of the housewife, performed in her own house, must be left out of account as one of the imponderables, however valuable it may be in fact. For the estimate of the national income to be of any practical use it must be based upon the conventions and practices of the existing economic system.

Again, fluctuations in the general level of prices, which have been so great in the past few years, have necessarily affected the money value of the national income. In these circumstances, it is absolutely essential that any estimate of the national income should be definitely stated as for a particular year, so that the national income for each year may be related to the price levels prevailing in that year and corrected by the price levels of that year. Thus, when the official index number of wholesale prices is taken to correct the estimate of the money value of the national income for the decline of prices, it is found that \$66.70 bought on the average as much in commodities in 1932 as \$95.60 bought in 1929. Then, if the money value of the national income had declined by one-half in these three years, the correction for the drop in prices would reduce the decline in the *real* national income of commodities and services to 28.3 per cent, on the assumption that the prices of services rendered declined proportionately with the prices of commodities included in the index number of wholesale prices. Thus on the assumption that the money value of the national income in 1932 was only one-half of that of 1929, the *real* national income would be nearly 72 per cent of that of 1929. Much might be said here on the effect of falling prices in discouraging the actual production of commodities and the rendering of services, thus reducing the *real* national income, and conversely on the effect of rising prices in stimulating the actual production of commodities and rendering of services and thus increasing the *real* national income.

The industries concerned with the production of *form* utilities employed in 1931 approximately five-eighths of all gainfully occupied Canadians and produced commodities to the net value of approximately \$2,105,000,000 in 1932, as shown in the General Survey of Production at pp. 232-233 of this volume. Then, on the assumption that the remaining approximately three-eighths of the gainfully occupied Canadians who are engaged in the transportation and communications industries, in wholesale and retail trade, in finance and in personal and professional service, are proportionately as productive on the average as those who engage in the production of *form* utilities, we attain a total figure of what labour, assisted by capital, has presumably been able to produce in the course of a calendar year. This figure has for the past twelve years been published in the Dominion Bureau of Statistics' Annual Survey of Production, and in the Canada Year Book.

On the basis of the annual Census of Industry and the occupational distribution of the population as ascertained at the Decennial Censuses of 1921 and 1931, the grand total value of the national production in each year from 1920 to 1932 inclusive has been approximately estimated as follows. 1920, \$5,523,000,000; 1921, \$4,215,000,000; 1922, \$4,520,000,000; 1923, \$4,696,000,000; 1924, \$4,643,000,000; 1925, \$5,178,000,000; 1926, \$5,600,000,000; 1927, \$6,101,000,000; 1928, \$6,342,000,000; 1929, \$6,072,000,000; 1930, \$5,150,000,000; 1931, \$4,000,000,000; 1932, \$3,403,000,000.

**39.—Total and Per Capita Production of the Gainfully Occupied Population in 1932, Based upon the Survey of Production, 1932, and the Percentage of Persons Occupied in the Production of Farm Utilities as Found at the Census of 1931.**

| Province or Territory.    | Net<br>Production.   | Percentage of<br>Gainfully<br>Occupied<br>Engaged in<br>Production<br>of Farm<br>Utilities. | Estimated<br>Amount<br>Produced<br>by All<br>Gainfully<br>Occupied<br>Persons. | Production<br>per<br>Capita. |
|---------------------------|----------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------|
|                           | \$                   | p.c.                                                                                        | \$                                                                             | \$                           |
| Prince Edward Island..... | 10,264,666           | 75-83                                                                                       | 13,536,000                                                                     | 153-82                       |
| Nova Scotia.....          | 70,917,559           | 66-19                                                                                       | 107,142,000                                                                    | 208-85                       |
| New Brunswick.....        | 54,063,723           | 67-00                                                                                       | 80,692,000                                                                     | 197-20                       |
| Quebec.....               | 557,659,317          | 61-04                                                                                       | 913,597,000                                                                    | 314-60                       |
| Ontario.....              | 884,801,710          | 60-52                                                                                       | 1,461,999,000                                                                  | 422-67                       |
| Manitoba.....             | 100,453,108          | 59-55                                                                                       | 168,687,000                                                                    | 239-27                       |
| Saskatchewan.....         | 117,858,748          | 71-88                                                                                       | 163,966,000                                                                    | 168-86                       |
| Alberta.....              | 157,015,824          | 68-65                                                                                       | 228,719,000                                                                    | 309-08                       |
| British Columbia.....     | 148,689,806          | 57-19                                                                                       | 259,993,000                                                                    | 369-31                       |
| Yukon.....                | 3,183,840            | 1                                                                                           | 5,100,000                                                                      | 323-47                       |
| <b>Canada.....</b>        | <b>2,104,908,301</b> | <b>62-52</b>                                                                                | <b>3,403,431,000</b>                                                           | <b>323-95</b>                |

<sup>1</sup> Dominion average used.

The above table has the defect of making no deduction for the cost of the fuel and the power required for the carrying on of the productive process in the manufacturing industries, these two items amounting to \$96,354,956 in 1930 and perhaps \$75,000,000 in 1932. On the other hand, it makes no allowance for unrecorded production in such sidelines as the raising of garden produce, poultry, etc., by persons not deriving their main livelihood from such activities. (The value of farm produce raised elsewhere than on farms was secured at the Census of 1931 and was found to total nearly \$19,000,000 in 1930.) Again, the table makes no allowance for the difference between the producer's price of farm commodities and the price actually received by the farmer who brings in his produce to a farmers' market or peddles it along city streets or sells it to a peddler with no fixed store who undertakes to do the marketing for him. Finally, the table makes no allowance for the money value of the production of persons not ordinarily considered as gainfully occupied, such as the production of school-boys outside of school hours and of college students in their vacations. On the whole, it is felt that the omission of the value of such activities fully makes up for the inclusion of the figures referred to above. This leaves us with the figure of approximately \$3,403,000,000 to represent the grand total value of the productive activities of the Canadian people in 1932.

However, Canada is on balance a debtor country, and in order to ascertain her net national income, deduction must be made from her national production of the amount required to meet the *net* interest payments due to outsiders. Such *net* interest and dividend payments are estimated for 1932 in our "Balance of International Payments" at \$192,000,000, payments on this score reaching \$248,000,000 as against receipts amounting to \$56,000,000. When this outward balance of interest and dividend payments is deducted from the \$3,403,000,000 of the preceding table, the remainder is \$3,211,000,000, which may be considered as the gross national income of the Canadian people in 1932. It is subject to certain deductions required to maintain the national productive equipment in an efficient state.

**Incomes Assessed for Income Tax in Canada.\***—In those countries of the world where an income tax has been established for a considerable time the figures of the assessed income have been generally accepted as furnishing a guide

\*This material has been revised by the Income Tax Branch of the Department of National Revenue.

both to the amount and to the distribution of the total national income by classes. Estimates of the national income, based upon income tax statistics, have been published, for example, in the United Kingdom and in the United States.

The war income tax was introduced into Canada in 1917. Under the Income War Tax Act, the returns of the incomes of individuals and corporations are filed in the year following the earning of the incomes. Further, since the fiscal year ends on Mar. 31, the bulk of the receipts from the income tax usually comes in during the first two or three months of the next following fiscal year. Thus the income tax received in the fiscal year ended Mar. 31, 1934, represents, in the main, income tax collected on 1932 income and the income tax collected in the fiscal year ended 1933 represents in the main 1931 income. It is important that these facts should be kept in mind when considering income assessed in different years. Further, the particular provisions of the income tax existing at any particular time and the amendments extending or contracting the scope of the income tax by raising or lowering the limit of taxable income or increasing or lowering the allowances for children, etc., should also be borne in mind in the consideration of the following tables. Among these, Table 40 gives the grand total income of individuals and corporations assessed for the purpose of income war tax for the past fourteen years, while Table 41 gives this income by provinces for the past five years and Table 42 shows the amount of income tax collected by provinces in the past five years. Tables 43 and 44 analyse the payments of income tax in the past four years by size of income class and by occupation of the taxpayer, respectively.

**40.—Amounts of Income Assessed for the Purposes of the Income War Tax, by Individuals and Corporations, fiscal years ended Mar. 31, 1921-34.**

| Fiscal Year. | Individuals. |                          | Corporations. |             | Total Amount.            |
|--------------|--------------|--------------------------|---------------|-------------|--------------------------|
|              | No.          | Amount.                  | No.           | Amount.     |                          |
| 1921.....    | 190,561      | \$ -                     | 3,696         | \$ -        | \$ 912,410,429           |
| 1922.....    | 290,584      | 1,058,577,617            | 8,286         | 403,951,553 | 1,462,529,170            |
| 1923.....    | 281,182      | 823,100,878              | 6,010         | 269,307,047 | 1,092,407,925            |
| 1924.....    | 239,036      | 802,617,497              | 5,569         | 305,410,374 | 1,108,027,871            |
| 1925.....    | 225,514      | 701,892,820              | 6,236         | 297,267,428 | 999,160,248              |
| 1926.....    | 209,539      | 697,016,973              | 5,738         | 306,093,673 | 1,003,110,646            |
| 1927.....    | 116,029      | 465,689,900 <sup>1</sup> | 5,777         | 278,494,991 | 744,184,891 <sup>1</sup> |
| 1928.....    | 122,026      | 604,736,116              | 6,121         | 435,496,832 | 1,040,232,948            |
| 1929.....    | 129,663      | 668,687,536              | 7,438         | 526,714,731 | 1,195,402,267            |
| 1930.....    | 142,154      | 781,174,030              | 7,957         | 544,019,414 | 1,325,193,444            |
| 1931.....    | 143,601      | 815,714,684              | 7,603         | 555,763,956 | 1,371,478,640            |
| 1932.....    | 133,621      | 660,107,257              | 6,010         | 332,498,963 | 992,606,220              |
| 1933.....    | 166,972      | 685,543,980              | 6,483         | 258,547,584 | 944,091,564              |
| 1934.....    | 203,957      | 617,717,251              | 8,913         | 211,614,313 | 829,331,564              |

<sup>1</sup>In 1927 the exemption limits were raised from \$2,000 to \$3,000 for married, and from \$1,000 to \$1,500 for single persons.

**41.—Amounts of Income Assessed for the Purposes of the Income War Tax, by Provinces, fiscal years ended Mar. 31, 1930-34.**

| Province.                 | 1930.                | 1931.                | 1932.              | 1933.              | 1934.              |
|---------------------------|----------------------|----------------------|--------------------|--------------------|--------------------|
| Prince Edward Island..... | \$ 2,293,916         | \$ 2,238,000         | \$ 1,981,321       | \$ 2,015,664       | \$ 2,072,019       |
| New Scotia.....           | 20,183,735           | 22,954,032           | 22,748,690         | 23,699,355         | 19,701,482         |
| Nova Brunswick.....       | 16,743,421           | 17,441,133           | 15,941,318         | 16,253,444         | 16,551,288         |
| Quebec.....               | 402,108,906          | 374,899,266          | 234,313,011        | 259,566,516        | 179,807,900        |
| Ontario.....              | 599,709,588          | 634,211,212          | 508,414,692        | 448,057,907        | 428,279,628        |
| Manitoba.....             | 83,659,145           | 84,061,015           | 56,619,647         | 53,808,386         | 45,049,397         |
| Saskatchewan.....         | 42,729,044           | 38,709,748           | 24,279,756         | 19,765,936         | 19,056,999         |
| Alberta.....              | 47,251,766           | 79,999,021           | 45,115,980         | 32,757,215         | 43,652,512         |
| British Columbia.....     | 109,367,418          | 115,849,332          | 82,033,481         | 87,124,464         | 73,972,698         |
| Yukon.....                | 1,146,505            | 1,115,781            | 1,158,321          | 1,042,677          | 1,187,641          |
| <b>Totals.....</b>        | <b>1,325,193,444</b> | <b>1,371,478,640</b> | <b>992,606,220</b> | <b>944,091,564</b> | <b>829,331,564</b> |



# 42.—Amounts of Income Tax Collected, by Provinces, fiscal years ended Mar. 31, 1930-34.

| Province.                 | 1930.             | 1931.             | 1932.             | 1933.             | 1934. <sup>1</sup> |
|---------------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
|                           | \$                | \$                | \$                | \$                | \$                 |
| Prince Edward Island..... | 45,178            | 45,671            | 40,930            | 84,860            | 128,932            |
| Nova Scotia.....          | 647,213           | 666,009           | 833,836           | 889,349           | 910,801            |
| New Brunswick.....        | 611,978           | 612,947           | 530,852           | 592,411           | 658,192            |
| Quebec.....               | 23,308,394        | 23,087,571        | 20,671,026        | 21,452,067        | 20,153,390         |
| Ontario.....              | 33,128,633        | 34,713,871        | 30,268,306        | 30,681,332        | 31,546,913         |
| Manitoba.....             | 3,707,769         | 3,537,771         | 2,232,348         | 2,134,393         | 1,921,908          |
| Saskatchewan.....         | 1,037,406         | 932,954           | 403,481           | 338,512           | 371,283            |
| Alberta.....              | 2,000,979         | 2,316,043         | 1,853,848         | 1,408,126         | 1,390,425          |
| British Columbia.....     | 4,495,649         | 5,106,454         | 4,403,853         | 4,082,526         | 3,872,376          |
| Yukon.....                | 19,857            | 19,034            | 10,360            | 11,092            | 26,504             |
| Head Office.....          | 17,670            | 9,697             | 5,560             | 392,029           | 418,448            |
| <b>Totals.....</b>        | <b>69,020,726</b> | <b>71,048,022</b> | <b>61,254,400</b> | <b>62,066,697</b> | <b>61,399,172</b>  |

<sup>1</sup>Includes the 5 p.c. tax on dividends imposed in the 1933 fiscal year. See pp. 885 and 946.

# 43.—Numbers of Individual and Corporate Tax Payers, by Size of Income and Amount of Taxes Paid under the Income War Tax Act, fiscal years ended Mar. 31, 1931-34.

## 1.—INDIVIDUALS.

| Income Class.             | 1931.          |                   | 1932.          |                   | 1933.          |                   | 1934.          |                   |
|---------------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|
|                           | Number.        | Amount.           | Number.        | Amount.           | Number.        | Amount.           | Number.        | Amount.           |
|                           |                | \$                |                | \$                |                | \$                |                | \$                |
| Under \$2,000.....        | 38,788         | 171,237           | 37,002         | 162,613           | 63,276         | 416,776           | 93,316         | 989,083           |
| \$ 2,000 to \$ 3,000..... | 20,885         | 316,458           | 19,595         | 291,274           | 29,156         | 453,936           | 46,207         | 1,015,183         |
| \$ 3,000 to \$ 4,000..... | 22,869         | 327,728           | 21,160         | 294,739           | 27,546         | 538,647           | 27,778         | 1,096,121         |
| \$ 4,000 to \$ 5,000..... | 17,909         | 437,407           | 16,555         | 375,629           | 15,760         | 559,397           | 13,312         | 995,500           |
| \$ 5,000 to \$ 6,000..... | 11,348         | 448,935           | 10,410         | 410,920           | 8,951          | 573,859           | 6,670          | 874,915           |
| \$ 6,000 to \$ 7,000..... | 7,483          | 478,985           | 6,839          | 434,007           | 5,556          | 570,900           | 4,082          | 810,922           |
| \$ 7,000 to \$ 8,000..... | 4,814          | 472,641           | 4,573          | 475,306           | 3,481          | 513,383           | 2,770          | 771,434           |
| \$ 8,000 to \$ 9,000..... | 3,449          | 484,866           | 3,238          | 466,442           | 2,580          | 560,968           | 1,937          | 743,943           |
| \$ 9,000 to \$10,000..... | 2,609          | 518,664           | 2,462          | 470,925           | 1,962          | 562,341           | 1,445          | 718,510           |
| \$10,000 to \$15,000..... | 6,825          | 2,528,683         | 5,901          | 2,203,781         | 4,577          | 2,405,573         | 3,284          | 2,735,469         |
| \$15,000 to \$20,000..... | 2,878          | 2,386,232         | 2,405          | 1,955,947         | 1,653          | 1,980,689         | 1,254          | 2,032,264         |
| \$20,000 to \$25,000..... | 1,314          | 2,071,218         | 1,123          | 1,727,028         | 872            | 1,903,341         | 665            | 1,881,997         |
| \$25,000 to \$30,000..... | 784            | 1,860,843         | 646            | 1,492,213         | 483            | 1,568,725         | 349            | 1,439,868         |
| \$30,000 to \$50,000..... | 1,045          | 4,277,731         | —              | —                 | —              | —                 | —              | —                 |
| \$30,000 to \$35,000..... | —              | —                 | 491            | 1,507,718         | 333            | 1,528,988         | 228            | 1,289,887         |
| \$35,000 to \$40,000..... | —              | —                 | 267            | 968,530           | 169            | 986,314           | 162            | 1,114,983         |
| \$40,000 to \$45,000..... | —              | —                 | 197            | 882,019           | 130            | 855,278           | 116            | 947,111           |
| \$45,000 to \$50,000..... | —              | —                 | 143            | 746,336           | 97             | 768,749           | 75             | 757,856           |
| \$50,000 and over.....    | 601            | 10,131,844        | 614            | 10,269,892        | 390            | 9,032,358         | 307            | 8,785,854         |
| <b>Totals.....</b>        | <b>143,601</b> | <b>26,913,472</b> | <b>133,621</b> | <b>25,135,319</b> | <b>166,972</b> | <b>25,780,222</b> | <b>203,957</b> | <b>29,000,900</b> |
| Unclassified amounts..... | —              | 291,615           | —              | 148,595           | —              | 564,750           | —              | 501,980           |
|                           | 143,601        | 27,205,087        | 133,621        | 25,283,914        | 166,972        | 26,344,972        | 203,957        | 29,502,880        |
| Refunds.....              | —              | 580,906           | —              | 511,068           | —              | 385,506           | —              | 319,165           |
| <b>Net Totals.....</b>    | <b>143,601</b> | <b>26,624,181</b> | <b>133,621</b> | <b>24,772,846</b> | <b>166,972</b> | <b>25,959,466</b> | <b>203,957</b> | <b>29,183,715</b> |

## 2.—CORPORATIONS.

|                           |       |           |       |         |       |         |       |         |
|---------------------------|-------|-----------|-------|---------|-------|---------|-------|---------|
| Under \$2,000.....        | —     | —         | —     | —       | —     | —       | 4,575 | 331,105 |
| \$ 2,000 to \$ 3,000..... | 1,400 | 66,338    | 1,123 | 54,297  | 1,423 | 91,654  | 1,040 | 209,587 |
| \$ 3,000 to \$ 4,000..... | 723   | 98,914    | 555   | 91,214  | 693   | 141,045 | 542   | 199,204 |
| \$ 4,000 to \$ 5,000..... | 468   | 111,442   | 431   | 122,421 | 529   | 187,115 | 337   | 185,218 |
| \$ 5,000 to \$ 6,000..... | 426   | 146,851   | 343   | 145,178 | 355   | 151,721 | 252   | 176,256 |
| \$ 6,000 to \$ 7,000..... | 334   | 142,237   | 294   | 147,203 | 296   | 164,531 | 188   | 168,846 |
| \$ 7,000 to \$ 8,000..... | 249   | 123,619   | 222   | 135,742 | 206   | 129,184 | 142   | 119,848 |
| \$ 8,000 to \$ 9,000..... | 203   | 137,066   | 197   | 143,269 | 210   | 180,129 | 131   | 156,980 |
| \$ 9,000 to \$10,000..... | 168   | 125,480   | 140   | 112,685 | 188   | 159,422 | 105   | 131,742 |
| \$10,000 to \$15,000..... | 654   | 587,729   | 495   | 550,720 | 520   | 656,580 | 342   | 567,791 |
| \$15,000 to \$20,000..... | 438   | 567,087   | 354   | 531,830 | 344   | 574,294 | 204   | 493,291 |
| \$20,000 to \$25,000..... | 326   | 597,828   | 229   | 496,928 | 242   | 599,364 | 156   | 483,036 |
| \$25,000 to \$30,000..... | 254   | 550,948   | 176   | 437,202 | 153   | 471,897 | 97    | 340,525 |
| \$30,000 to \$50,000..... | 563   | 1,802,322 | —     | —       | —     | —       | —     | —       |
| \$30,000 to \$35,000..... | —     | —         | 175   | 555,401 | 149   | 525,761 | 91    | 447,571 |
| \$35,000 to \$40,000..... | —     | —         | 119   | 457,740 | 113   | 469,670 | 61    | 328,112 |



### 43.—Numbers of Individual and Corporate Tax Payers, by Size of Income and Amount of Taxes Paid under the Income War Tax Act, fiscal years ended Mar. 31, 1931-34—concluded.

#### 2.—CORPORATIONS—concluded.

| Income Class.             | 1931.                    |                               | 1932.                    |                               | 1933.                    |                               | 1934.                    |                               |
|---------------------------|--------------------------|-------------------------------|--------------------------|-------------------------------|--------------------------|-------------------------------|--------------------------|-------------------------------|
|                           | Number.                  | Amount.                       | Number.                  | Amount.                       | Number.                  | Amount.                       | Number.                  | Amount.                       |
|                           |                          | \$                            |                          | \$                            |                          | \$                            |                          | \$                            |
| \$40,000 to \$45,000.     | —                        | —                             | 100                      | 446,056                       | 75                       | 393,761                       | 50                       | 272,523                       |
| \$45,000 to \$50,000.     | —                        | —                             | 80                       | 405,241                       | 77                       | 432,857                       | 54                       | 416,218                       |
| \$50,000 and over.        | 1,393                    | 39,370,016                    | 971                      | 31,868,113                    | 904                      | 31,229,794                    | 540                      | 22,939,240                    |
| <b>Totals</b> .....       | <b>7,603<sup>1</sup></b> | <b>44,440,244<sup>1</sup></b> | <b>6,010<sup>2</sup></b> | <b>36,704,292<sup>2</sup></b> | <b>6,483<sup>3</sup></b> | <b>36,560,007<sup>3</sup></b> | <b>8,913<sup>4</sup></b> | <b>27,969,757<sup>4</sup></b> |
| Unclassified amounts..... | —                        | 471,429                       | —                        | 266,755                       | —                        | 1,106                         | —                        | 18,869                        |
| Refunds.....              | 7,603 <sup>1</sup>       | 44,911,673 <sup>1</sup>       | 6,010 <sup>2</sup>       | 36,971,048 <sup>2</sup>       | 6,483 <sup>3</sup>       | 36,561,113 <sup>3</sup>       | 8,913 <sup>4</sup>       | 27,988,626 <sup>4</sup>       |
|                           | —                        | 487,832                       | —                        | 489,494                       | —                        | 453,882                       | —                        | 602,804                       |
| <b>Net Totals</b> ....    | <b>7,603<sup>1</sup></b> | <b>44,423,841<sup>1</sup></b> | <b>6,010<sup>2</sup></b> | <b>36,481,554<sup>2</sup></b> | <b>6,483<sup>3</sup></b> | <b>36,107,231<sup>3</sup></b> | <b>8,913<sup>4</sup></b> | <b>27,385,822<sup>4</sup></b> |

<sup>1</sup>Totals include 4 corporations paying \$12,367 in taxation, grouped to conceal net income and identity of tax payers. <sup>2</sup>Totals include 6 corporations paying \$3,053 in taxation, grouped to conceal net income and identity of tax payers. <sup>3</sup>Totals include 6 corporations paying \$1,229 in taxation, grouped to conceal net income and identity of tax payers. <sup>4</sup>Totals include 6 corporations paying \$6,664 in taxation, grouped to conceal net income and identity of tax payers.

### 44.—Income Tax Paid, by Occupations of the Tax Payers, fiscal years ended Mar. 31, 1931-34.

#### 1.—INDIVIDUALS.

| Occupation.                | 1931.          |                   | 1932.          |                   | 1933.          |                   | 1934.          |                   |
|----------------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------|
|                            | Number.        | Amount.           | Number.        | Amount.           | Number.        | Amount.           | Number.        | Amount.           |
|                            |                | \$                |                | \$                |                | \$                |                | \$                |
| Agrarians.....             | 2,276          | 131,910           | 653            | 36,379            | 249            | 27,620            | 262            | 22,334            |
| Professionals.....         | 7,448          | 1,913,761         | 6,512          | 1,893,161         | 6,012          | 1,762,428         | 5,941          | 2,008,471         |
| Employees.....             | 99,658         | 8,717,015         | 96,272         | 8,355,336         | 132,722        | 9,700,590         | 167,737        | 11,340,010        |
| Merchants, retail.         | 10,174         | 1,196,920         | 7,314          | 830,524           | 6,009          | 620,154           | 4,960          | 527,693           |
| Merchants, whole-sale.     | 1,563          | 454,540           | 987            | 271,459           | 690            | 184,932           | 575            | 217,233           |
| Manufacturers.....         | 947            | 225,135           | 823            | 162,354           | 531            | 179,678           | 467            | 129,978           |
| Natural resources..        | 174            | 57,942            | 147            | 21,331            | 101            | 14,061            | 77             | 11,514            |
| Financial.....             | 9,278          | 6,641,080         | 9,718          | 5,874,722         | 9,736          | 6,048,695         | 11,753         | 7,512,473         |
| Personal corporations..... | 597            | 3,114,145         | 568            | 3,082,674         | 510            | 3,113,532         | 618            | 2,768,992         |
| Family corporations.....   | 3,235          | 1,953,544         | 2,626          | 1,993,797         | 1,783          | 1,685,614         | 1,576          | 1,354,613         |
| All others.....            | 8,251          | 2,507,479         | 8,001          | 2,613,581         | 8,632          | 2,442,918         | 9,991          | 3,107,589         |
| Unclassified.....          | —              | 291,616           | —              | 148,596           | —              | 564,750           | —              | 501,980           |
| <b>Totals</b> .....        | <b>143,601</b> | <b>27,205,087</b> | <b>133,621</b> | <b>25,283,914</b> | <b>166,972</b> | <b>26,344,972</b> | <b>203,957</b> | <b>29,502,880</b> |
| Refunds.....               | —              | 580,906           | —              | 511,068           | —              | 385,506           | —              | 319,165           |
| <b>Net Totals</b> ....     | <b>143,601</b> | <b>26,624,181</b> | <b>133,621</b> | <b>24,772,846</b> | <b>166,972</b> | <b>25,959,466</b> | <b>203,957</b> | <b>29,183,715</b> |

#### 2.—CORPORATIONS.

|                                                      |              |                   |              |                   |              |                   |              |                               |
|------------------------------------------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------------------|
| Agrarians.....                                       | 88           | 56,404            | 39           | 19,088            | 40           | 32,370            | 71           | 19,146                        |
| Merchants, retail.                                   | 1,349        | 2,798,156         | 1,044        | 2,241,079         | 1,017        | 2,060,741         | 1,427        | 1,332,731                     |
| Merchants, whole-sale.                               | 958          | 2,975,641         | 640          | 1,499,306         | 741          | 1,848,583         | 874          | 1,491,913                     |
| Manufacturers.....                                   | 2,475        | 21,988,645        | 1,803        | 17,692,605        | 1,829        | 16,857,552        | 1,897        | 11,849,040                    |
| Natural resources..                                  | 295          | 4,211,330         | 143          | 2,872,504         | 169          | 3,177,428         | 198          | 3,017,750                     |
| Financial.....                                       | 1,134        | 4,261,232         | 1,050        | 4,830,390         | 1,270        | 5,821,512         | 2,853        | 4,688,265                     |
| Transportation and public utilities...               | 345          | 6,192,278         | 312          | 4,769,437         | 316          | 4,451,196         | 434          | 3,607,251                     |
| All others.....                                      | 959          | 1,956,557         | 979          | 2,779,894         | 1,101        | 2,810,625         | 1,159        | 1,963,661                     |
| Unclassified.....                                    | —            | 471,430           | —            | 266,755           | —            | 1,106             | —            | 18,869                        |
| <b>Totals</b> .....                                  | <b>7,603</b> | <b>44,911,673</b> | <b>6,010</b> | <b>36,971,048</b> | <b>6,483</b> | <b>36,561,113</b> | <b>8,913</b> | <b>27,988,626</b>             |
| Refunds.....                                         | —            | 487,832           | —            | 489,494           | —            | 453,882           | —            | 602,804                       |
| <b>Net Totals</b> ....                               | <b>7,603</b> | <b>44,423,841</b> | <b>6,010</b> | <b>36,481,554</b> | <b>6,483</b> | <b>36,107,231</b> | <b>8,913</b> | <b>27,385,822</b>             |
| <b>Grand Totals, Individuals and Corporations...</b> | <b>—</b>     | <b>71,048,022</b> | <b>—</b>     | <b>61,254,400</b> | <b>—</b>     | <b>62,066,697</b> | <b>—</b>     | <b>56,569,537<sup>1</sup></b> |

<sup>1</sup> Exclusive of 5 p.c. tax on dividends.

Table 45 shows the amount received from the special 5 p.c. tax of 1933 imposed at the source on interest or dividends paid by Canadian debtors to non-residents of Canada and on interest or dividends received by Canadian residents by way of bearer coupons or cheques where such are payable by Canadian debtors, optionally or otherwise, in foreign currencies, and such coupons or cheques are cashed in a currency which is at a premium over Canadian funds. The receipts are classified by provinces, no further classification being available.

**45.—Amount Received from Special Five Per Cent Tax on Interest and Dividends, fiscal year ended Mar. 31, 1934.**

| Province.                 | Amount<br>of Tax<br>Received. | Percentage<br>of<br>Total. |
|---------------------------|-------------------------------|----------------------------|
|                           | \$                            | p.c.                       |
| Prince Edward Island..... | 7,218                         | 0.15                       |
| Nova Scotia.....          | 41,627                        | 0.86                       |
| New Brunswick.....        | 21,898                        | 0.45                       |
| Quebec.....               | 1,490,648                     | 30.87                      |
| Ontario.....              | 2,933,351                     | 60.74                      |
| Manitoba.....             | 69,287                        | 1.44                       |
| Saskatchewan.....         | 8,311                         | 0.17                       |
| Alberta.....              | 47,036                        | 0.97                       |
| British Columbia.....     | 210,227                       | 4.35                       |
| Yukon.....                | 32                            | -                          |
| <b>Totals.....</b>        | <b>4,829,635</b>              | <b>100.00</b>              |

**Subsection 3.—Outside Capital Invested in Canada and Canadian Capital Invested Elsewhere.\***

An estimate of the outside capital invested in Canada and the Canadian capital invested outside of the Dominion is prepared by the Internal Trade Branch of the Dominion Bureau of Statistics. Any estimate of this character is liable to a margin of error, but the utmost care has been taken in the computation and it is believed that the figures approximate to actual conditions. More complete information is being obtained from year to year, and a comprehensive revision and extension of the statistics on this subject is now in progress. In the meantime, the figures given are of the latest available date, *viz.*, Jan. 1, 1931; figures for previous years will be found on pp. 879-880 of the 1933 Year Book.

It is estimated that the total investment of British and foreign capital in Canada on Jan. 1, 1931, was \$6,477,879,000. Of this sum, \$2,204,857,000 was British capital, \$4,107,803,000 was from the United States and \$165,217,000 from other countries. Though these totals are large, it should be remembered that the national wealth of the Dominion in 1929 is estimated at \$30,840,210,000 exclusive of the value of those undeveloped natural resources in which some of the outside capital is invested.

It must also be borne in mind that Canadians have invested large amounts of capital abroad. The Bureau estimates that Canadian investments in other countries amounted to \$1,831,310,000 at the beginning of 1931, or nearly 30 p.c. of the amount of outside investments in Canada. Of this \$1,047,285,000 was placed in the United States, \$84,826,000 in the United Kingdom and \$699,198,000 in other countries. (Table 47.)

\*Revised by Herbert Marshall, B.A., F.S.S., Chief, Internal Trade Branch, Dominion Bureau of Statistics. For a list of the publications of this Branch, see p. 1154.

It is estimated that the amount of capital invested in Canada is \$17,500,000,000. This sum includes the bonded indebtedness of Dominion, Provincial and municipal governments, investments in railways, all manufacturing concerns, mines and metal industries, public utilities, trading establishments, finance, insurance, land and mortgages. It does not include private capital in domestic enterprises such as farms, homes, etc. Of this sum it is estimated that 65 p.c. or \$11,500,000,000 is owned in Canada; 21 p.c. or \$3,725,000,000 in United States; 13 p.c. or \$2,228,000,000 in the United Kingdom; 1 p.c. or \$171,000,000 in other countries.

If the basis of comparison is total national wealth, British and foreign investments decrease in significance. Canada's national wealth in 1930 was probably \$30,000,000,000; net British and foreign investments in Canada were about \$4,647,000,000, or 15½ p.c. of the total.

#### 46.—Estimated British and Foreign Investments in Canada, Jan. 1, 1931.

(000's omitted.)

| Type of Investment.                                                         | By Residents of the United Kingdom. | By Residents of the United States. | By Residents of Other Countries. | Total.           |
|-----------------------------------------------------------------------------|-------------------------------------|------------------------------------|----------------------------------|------------------|
|                                                                             | \$                                  | \$                                 | \$                               | \$               |
| Government securities (Dominion, Provincial and municipal).....             | 466,291                             | 825,149                            | 11,500                           | 1,302,941        |
| Public Utilities—                                                           |                                     |                                    |                                  |                  |
| Railways.....                                                               | 898,523                             | 806,274                            | 33,267                           | 1,738,064        |
| Other public utilities (traction, light, heat, power, telephone, etc.)..... | 130,880                             | 556,594                            | 16,184                           | 703,658          |
| Industries—                                                                 |                                     |                                    |                                  |                  |
| Pulp, paper and lumber.....                                                 | 75,299                              | 478,104                            | 6,845                            | 560,248          |
| Mining.....                                                                 | 52,800                              | 233,500                            | 8,800                            | 295,100          |
| Metal industries.....                                                       | 45,576                              | 501,396                            | 11,394                           | 558,366          |
| All other industries.....                                                   | 172,819                             | 287,715                            | 14,243                           | 474,778          |
| Trading establishments.....                                                 | 75,000                              | 170,000                            | 5,000                            | 250,000          |
| Finance and insurance.....                                                  | 96,911                              | 151,113                            | 7,067                            | 255,091          |
| Land and mortgage.....                                                      | 190,758                             | 97,958                             | 50,917                           | 339,633          |
| <b>Totals.....</b>                                                          | <b>2,204,857</b>                    | <b>4,107,803</b>                   | <b>165,217</b>                   | <b>6,477,879</b> |

#### 47.—Estimated Total Investments of Canadian Capital in British and Foreign Countries, as at Jan. 1, 1931.

(000's omitted.)

| Item.                                               | In the United Kingdom. | In United States. | In Other Countries. | Total.           |
|-----------------------------------------------------|------------------------|-------------------|---------------------|------------------|
|                                                     | \$                     | \$                | \$                  | \$               |
| Canadian Government credits and balances abroad.... | 670                    | 27,576            | 30,725              | 58,971           |
| Balances of chartered banks abroad.....             | 13,840                 | 41,520            | 13,840              | 69,200           |
| Foreign securities held by banks.....               | 29,566                 | 36,254            | 28,411              | 94,231           |
| Investments of insurance companies abroad.....      | 27,900                 | 272,360           | 142,601             | 442,862          |
| Direct industrial investments.....                  | 1,000                  | 152,490           | 198,642             | 352,132          |
| Miscellaneous.....                                  | 11,850                 | 517,085           | 284,979             | 813,914          |
| <b>Totals.....</b>                                  | <b>84,826</b>          | <b>1,047,285</b>  | <b>699,198</b>      | <b>1,831,310</b> |

## CHAPTER XXII.—CURRENCY AND BANKING; LOAN AND TRUST COMPANIES.

### Section 1.—Canada's Monetary System.

**Historical.**—Early trade in Canada was carried on by barter, which at times resulted (*e.g.*, in transactions between Indians and fur traders) in the adoption of beads, blankets, etc., as recognized media of exchange. Later, during the French period in Canada, while barter still formed perhaps the most important means of exchange between individuals and merchants, a more or less satisfactory currency system developed. Beaver and other furs, tobacco and wheat were at times used as substitutes for currency, the last named being at one time a legal tender. A makeshift currency system was also developed during the French *régime* when playing cards, stamped with a value and redeemable yearly on the receipt of bills of exchange on Paris, came into circulation. Other paper money was also issued, and the total amount outstanding at the time of the cession was estimated at 80,000,000 livres, which was nearly all lost to its holders.

The British Government next sought to establish a uniform standard of colonial currency, but since at this time French coinage again began to come into circulation and the Spanish dollar also rivalled the English shilling as the most common medium of exchange, this was not universally possible. English sovereigns were overrated in terms of dollars in an endeavour to encourage their circulation. A rate of 5s. to the dollar was set in Halifax and was in use in government accounting systems, while in Montreal, York currency (the rates prevalent in New York), giving the dollar an exchange value of 7s. 6d. or 8s., was in common use.

Canadians again became more or less familiar with the characteristics of paper money as a result of the experiences of the various neighbouring Northern States during the first half of the nineteenth century. During the War of 1812 this familiarity was increased by the establishment of an army bill office, issuing bills of various denominations, redeemable on presentation. The growing volume of trade between Canada and the United States also resulted in a tendency toward a decimal coinage, and in 1853 a measure was passed providing for the adoption of a decimal currency, with a dollar equivalent to the United States dollar; the British sovereign was made legal tender at \$4.86½. An Act of 1857 requiring all government accounts to be kept in dollars and cents came into force on Jan. 1, 1858; the formal adoption of decimal currency in the Province of Canada dates from that time.

By the Uniform Currency Act of 1871 (34 Vict., c. 4), the decimal currency was extended throughout the Dominion, the British sovereign was made legal tender for \$4.86½ and the United States eagle legal tender for \$10, while authority was given to coin a Canadian \$5 gold piece. No Canadian gold coinage was issued, however, prior to the establishment of the Canadian branch of the Royal Mint in 1908, the first coins struck being sovereigns similar to those of the United Kingdom, but with a small "C" indentifying them as having been coined in Canada. In May, 1912, the first Canadian \$10 and \$5 gold pieces were struck, but the Canadian gold coinage has so far been limited in amount, since Canadians have generally preferred Dominion notes to gold for use within the country and, when gold is needed for export, bullion or British and United States gold coin serve the purpose equally well.



**The Royal Canadian Mint.**—The Ottawa Mint, established as a branch of the Royal Mint under the (Imperial) Coinage Act, 1870, and opened on Jan. 2, 1908, was, by 21-22 Geo. V, c. 48, constituted a branch of the Department of Finance, and by the Proclamation of Nov. 14, 1931, issued under Section 3 of that Act, it has since Dec. 1, 1931, operated as the Royal Canadian Mint. At first the British North American provinces, and later the Dominion of Canada, obtained their coins from the Royal Mint in London or from The Mint, Birmingham, Ltd., and in its earlier years the operations of the Mint in Canada were confined to the production of gold, silver and bronze coins for domestic circulation, of British sovereigns, and of small coinages struck under contract for Newfoundland and Jamaica. Previous to 1914 small quantities of gold bullion were refined, but during the War the Mint came to the assistance of the British Government by establishing a refinery in which nearly twenty million ounces of South African gold were treated on account of the Bank of England, and the subsequent great development of the gold-mining industry in Canada has resulted in gold-refining becoming one of the principal activities of the Mint. Gold coins have never been a popular medium of exchange in Canada and have not been struck since 1919, most of the fine gold produced from the rough shipments from the mines being delivered to the Department of Finance in the form of bars worth approximately \$8,300 each, the rest being sold in a convenient form to manufacturers. The fine silver extracted from the rough gold, when not required for coinage, is sold in New York or disposed of to local manufacturing firms.

The domestic currency of Canada, as at present authorized by the Currency Act, consists of: \$20, \$10, \$5 and \$2½ gold pieces, 900 millesimal fineness (only \$10 and \$5 pieces have been issued); of \$1, 50-cent, 25-cent and 10-cent silver pieces, 800 millesimal fineness; of 5-cent pieces of pure nickel (from metal produced in Canada); and of 1-cent pieces in bronze. The silver 5-cent piece is still legal tender but its coinage was discontinued in 1921; the silver dollar was never coined until 1935, when, by Royal Proclamation of Apr. 12, the design of the new Jubilee Silver Dollar was set out. The proclamation went into operation on May 1, 1935.

**Gold.**—Gold is used only to an insignificant extent as a circulating medium in Canada, its monetary use being practically confined to reserves, but \$5 and \$10 gold pieces weighing respectively 129 and 258 grains, 9-10ths pure gold by weight, have been coined, the Canadian gold dollar thus containing 23.22 grains of pure gold. These coins were first issued in 1912, authority to issue them having been conferred in 1910. By the Currency Act, 1910 (9-10 Edw. VII, c. 14), British sovereigns, which are legal tender for \$4.86½, and other gold coins, and the \$5, \$10 and \$20 gold coins of the United States, which contain exactly the same weight of gold as Canadian gold coins of these denominations, are also legal tender. These, however, were almost entirely divided between the Dominion Government and the banks as reserves, and the chief circulating medium of the country is provided by paper and token currency. On the establishment of the Bank of Canada, the chartered banks transferred their holdings of gold in Canada to this institution.

Table 1, compiled by the Master of the Royal Canadian Mint, shows the value of the gold bullion received for treatment at the Ottawa Mint since its foundation, together with the gold coin and bullion issued. A statement of the gold, silver, nickel and bronze coinages issued to the separate provinces and to the Dominion of Canada since 1858 is published as Table 2. Table 3, compiled by the Dominion Comptroller of Currency, gives the form in which the gold has been held by the Government in recent years.

# 1.—Value of Gold Bullion Received for Treatment and Value of Gold Coin and Bullion Issued from the Ottawa Mint, 1908-16 and, by years, 1917-34.

NOTE.—Gold valued at the standard price of \$20.671834 per fine oz.

| Calendar Year.     | Gold Received.                    | Gold Coin Issued.   |                     | Bullion Issued.       | Total Issued.                     |
|--------------------|-----------------------------------|---------------------|---------------------|-----------------------|-----------------------------------|
|                    |                                   | Sovereigns.         | Canadian.           |                       |                                   |
|                    | \$                                | \$                  | \$                  | \$                    | \$                                |
| 1908 to 1916.....  | 10,463,623.94                     | 1,585,058.69        | 4,868,420.00        | 2,916,552.87          | 9,370,031.56                      |
| 1917.....          | 834,507.05                        | 910.07              | —                   | 1,836,741.72          | 1,837,651.79                      |
| 1918.....          | 4,942,051.11                      | 636,404.24          | —                   | 3,461,337.80          | 4,097,742.04                      |
| 1919.....          | 10,757,173.72                     | 832,404.40          | —                   | 10,162,325.22         | 10,994,729.62                     |
| 1920.....          | 11,530,413.82                     | 19.47               | —                   | 11,729,633.29         | 11,729,652.76                     |
| 1921.....          | 16,915,033.45                     | 661.86              | —                   | 16,598,784.71         | 16,599,446.57                     |
| 1922.....          | 22,474,548.41                     | —                   | —                   | 22,452,310.79         | 22,452,310.79                     |
| 1923.....          | 12,687,098.94                     | —                   | —                   | 13,219,784.95         | 13,219,784.95                     |
| 1924.....          | 2,298,565.73                      | —                   | —                   | 2,224,224.68          | 2,224,224.68                      |
| 1925.....          | 2,492,403.07                      | —                   | —                   | 2,529,713.69          | 2,529,713.69                      |
| 1926.....          | 28,434,159.27                     | —                   | —                   | 27,858,765.72         | 27,858,765.72                     |
| 1927.....          | 29,936,535.82                     | —                   | —                   | 30,013,576.98         | 30,013,576.98                     |
| 1928.....          | 27,392,510.27                     | —                   | —                   | 26,980,873.75         | 26,980,873.75                     |
| 1929.....          | 9,061,523.51                      | —                   | —                   | 9,682,363.42          | 9,682,363.42                      |
| 1930.....          | 17,820,668.21                     | —                   | —                   | 14,934,758.75         | 14,934,758.75                     |
| 1931.....          | 35,581,117.00                     | —                   | —                   | 35,867,937.27         | 35,867,937.27                     |
| 1932.....          | 58,491,549.39                     | —                   | —                   | 59,394,754.05         | 59,394,754.05                     |
| 1933.....          | 53,102,586.04                     | —                   | —                   | 53,532,789.33         | 53,532,789.33                     |
| 1934.....          | 62,201,080.02                     | —                   | —                   | 62,801,423.68         | 62,801,423.68                     |
| <b>Totals.....</b> | <b>770,315,400.55<sup>1</sup></b> | <b>3,055,458.73</b> | <b>4,868,420.00</b> | <b>761,374,236.43</b> | <b>763,298,115.16<sup>2</sup></b> |

<sup>1</sup>Includes \$352,898,246.78 of Bank of England gold received between 1915 and 1919.

<sup>2</sup>Includes \$353,175,583.76 of Bank of England bullion issued between 1915 and 1919.

## 2.—Statement of Coinage (in Dollar and Cent Denominations) Issued to the Dominion of Canada, 1858-1907, 1908-16, and, by years, 1917-34.

| Calendar Year.                             | Gold.            | Silver.           | Nickel.          | Bronze.          | Total.            |
|--------------------------------------------|------------------|-------------------|------------------|------------------|-------------------|
|                                            | \$               | \$                | \$               | \$               | \$                |
| Struck at Mints in England— <sup>1</sup>   |                  |                   |                  |                  |                   |
| 1858 (New Brunswick, 1861-2-4.....)        | —                | 95,000            | —                | 20,000           | 115,000           |
| to 1907 (Nova Scotia, 1861-2-4.....)       | —                | —                 | —                | 30,000           | 30,000            |
| (Prince Edward Island, 1871.....)          | —                | —                 | —                | 10,000           | 10,000            |
| (Canada, 1858-1907.....)                   | —                | 12,459,996        | —                | 804,429          | 13,264,425        |
| <b>Totals.....</b>                         | <b>—</b>         | <b>12,554,996</b> | <b>—</b>         | <b>864,429</b>   | <b>13,419,425</b> |
| Struck at The Royal Mint, Ottawa—          |                  |                   |                  |                  |                   |
| 1908 to 1916.....                          | 4,868,420        | 8,595,327         | —                | 459,204          | 13,922,951        |
| 1917.....                                  | —                | 1,862,200         | —                | 116,900          | 1,979,100         |
| 1918.....                                  | —                | 2,402,000         | —                | 131,817          | 2,533,817         |
| 1919.....                                  | —                | 3,258,044         | —                | 115,100          | 3,373,144         |
| 1920.....                                  | —                | 1,356,000         | —                | 209,085          | 1,565,085         |
| 1921.....                                  | —                | 128,000           | —                | 60,700           | 188,700           |
| 1922.....                                  | —                | 24,000            | 69,000           | 12,400           | 105,400           |
| 1923.....                                  | —                | 28,000            | 127,000          | 19,300           | 174,300           |
| 1924.....                                  | —                | —                 | 74,500           | 11,900           | 86,400            |
| 1925.....                                  | —                | 14,000            | 126,000          | 22,100           | 162,100           |
| 1926.....                                  | —                | 50,000            | 168,500          | 25,200           | 243,700           |
| 1927.....                                  | —                | 574,000           | 249,000          | 37,500           | 860,500           |
| 1928.....                                  | —                | 867,000           | 250,000          | 92,100           | 1,209,100         |
| 1929.....                                  | —                | 1,081,000         | 267,000          | 123,300          | 1,471,300         |
| 1930.....                                  | —                | 326,000           | 164,500          | 13,400           | 503,900           |
| 1931.....                                  | —                | 475,400           | 281,000          | 51,400           | 807,800           |
| Struck at The Royal Canadian Mint, Ottawa— |                  |                   |                  |                  |                   |
| 1932.....                                  | —                | 287,000           | 165,000          | 213,200          | 665,200           |
| 1933.....                                  | —                | 155,000           | 125,000          | 120,800          | 400,800           |
| 1934.....                                  | —                | 172,300           | 193,000          | 69,900           | 435,200           |
| <b>Totals.....</b>                         | <b>4,868,420</b> | <b>34,210,267</b> | <b>2,259,500</b> | <b>2,772,735</b> | <b>44,110,922</b> |

<sup>1</sup>Struck at The Royal Mint in London, or at The Mint, Birmingham, Ltd.

## 3.—Composition of Canadian Gold Reserves on Dec. 31, 1905-34.

NOTE.—Gold valued at the standard rate of \$20-671834 per fine oz.

| Dec. 31—  | British Coin. | U.S. Coin.  | Canadian Coin. | Bullion.   | Total.      |
|-----------|---------------|-------------|----------------|------------|-------------|
|           | \$            | \$          | \$             | \$         | \$          |
| 1905..... | 3,990,717     | 29,494,298  | —              | —          | 33,485,015  |
| 1906..... | 7,375,857     | 31,040,149  | —              | —          | 38,416,006  |
| 1907..... | 5,366,478     | 33,529,889  | —              | —          | 38,896,367  |
| 1908..... | 6,261,715     | 54,909,076  | —              | —          | 61,170,791  |
| 1909..... | 6,537,227     | 62,988,474  | —              | —          | 69,525,701  |
| 1910..... | 6,304,524     | 68,261,279  | —              | 222,934    | 74,788,737  |
| 1911..... | 6,900,095     | 93,507,764  | —              | 222,934    | 100,630,793 |
| 1912..... | 4,554,691     | 98,648,736  | 650,185        | 222,934    | 104,076,546 |
| 1913..... | 6,391,375     | 106,642,969 | 2,118,210      | 222,934    | 115,375,488 |
| 1914..... | 4,432,524     | 86,382,620  | 3,440,150      | 320,345    | 94,625,639  |
| 1915..... | 29,606,990    | 86,516,595  | 3,436,095      | 775,201    | 120,334,881 |
| 1916..... | 29,333,111    | 86,034,920  | 3,426,760      | 803,002    | 119,597,693 |
| 1917..... | 27,476,790    | 77,899,494  | 3,413,465      | 11,352,856 | 120,142,605 |
| 1918..... | 27,362,255    | 75,785,665  | 3,411,465      | 14,701,439 | 121,260,824 |
| 1919..... | 27,661,192    | 60,988,110  | 3,408,310      | 27,154,222 | 119,211,834 |
| 1920..... | 26,728,016    | 35,896,485  | 3,387,125      | 35,090,344 | 101,101,970 |
| 1921..... | 26,729,501    | 35,896,305  | 3,385,690      | 18,558,557 | 84,570,053  |
| 1922..... | 26,730,576    | 67,941,550  | 3,340,650      | 34,572,504 | 132,585,280 |
| 1923..... | 27,212,790    | 41,090,395  | 3,336,490      | 46,026,852 | 117,666,527 |
| 1924..... | 26,342,019    | 77,173,105  | 3,327,125      | 34,905,387 | 141,747,636 |
| 1925..... | 29,894,943    | 67,135,310  | 3,315,730      | 37,512,195 | 137,858,178 |
| 1926..... | 32,133,941    | 72,423,610  | 3,221,930      | 23,415,643 | 131,195,124 |
| 1927..... | 28,948,085    | 51,179,390  | 3,089,010      | 47,516,079 | 130,732,564 |
| 1928..... | 34,163,297    | 31,018,970  | 2,931,835      | 25,202,771 | 93,316,873  |
| 1929..... | 32,164,284    | 10,995,220  | 2,801,520      | 17,034,256 | 62,995,280  |
| 1930..... | 30,634,058    | 28,748,085  | 2,733,150      | 34,096,809 | 96,212,102  |
| 1931..... | 17,736,296    | 4,270,780   | 2,732,880      | 42,220,192 | 66,960,148  |
| 1932..... | 17,638,240    | 4,271,355   | 2,704,930      | 48,429,889 | 73,044,414  |
| 1933..... | 17,637,435    | 4,266,835   | 2,704,880      | 47,356,454 | 71,965,604  |
| 1934..... | 17,637,445    | 4,266,850   | 2,704,865      | 49,291,619 | 73,900,779  |

**Token Currency.**—Canadian silver dollars weighing 360 grains, 37-40ths fine, provided for by the Currency Act of 1910, were placed in circulation for the first time in 1935 (see p. 949). Fifty-, 25-, 10-, and 5-cent pieces of weight proportionate to their respective fractions of the dollar, and of the same fineness, are in circulation, but, by c. 9 of the Statutes of 1920, the standard of fineness was reduced to 8-10ths. In 1921 the coinage of a nickel 5-cent piece weighing 70 grains was authorized. Silver coins are legal tender only up to ten dollars, nickel coins to five dollars, and bronze coins to twenty-five cents. Table 4 shows the *net* issue of silver and bronze coins (that is, the value issued less the value withdrawn), by years from 1901.

## 4.—Circulation in Canada of Silver and Bronze Coin, Dec. 31, 1901-34.

NOTE.—Figures supplied by the Royal Canadian Mint.

| Dec. 31—  | Net Amounts of Silver Coin Issued. <sup>1</sup> |                   | Amounts per head. |         | Net Amounts of Bronze Coin Issued. <sup>1</sup> |                   | Amounts per head. |         |
|-----------|-------------------------------------------------|-------------------|-------------------|---------|-------------------------------------------------|-------------------|-------------------|---------|
|           | A.<br>During the Year.                          | B.<br>Since 1858. | Col. A.           | Col. B. | C.<br>During the Year.                          | D.<br>Since 1858. | Col. C.           | Col. D. |
|           | \$                                              | \$                | cts.              | \$      | \$                                              | \$                | cts.              | cts.    |
| 1901..... | 420,000                                         | 8,279,924         | 7-8               | 1-54    | 41,000                                          | 676,429           | 0-8               | 12-6    |
| 1902..... | 774,000                                         | 9,053,924         | 14-1              | 1-65    | 30,000                                          | 706,429           | 0-5               | 12-8    |
| 1903..... | 633,850                                         | 9,687,774         | 11-2              | 1-71    | 40,000                                          | 746,429           | 0-7               | 13-2    |
| 1904..... | 350,000                                         | 10,037,774        | 6-0               | 1-72    | 25,000                                          | 771,429           | 0-4               | 13-2    |
| 1905..... | 450,000                                         | 10,487,774        | 7-5               | 1-75    | 20,000                                          | 791,429           | 0-3               | 13-2    |
| 1906..... | 807,461                                         | 11,295,235        | 13-0              | 1-82    | 41,000                                          | 832,429           | 0-7               | 13-4    |
| 1907..... | 1,194,000                                       | 12,489,235        | 18-6              | 1-95    | 32,000                                          | 864,429           | 0-5               | 13-5    |
| 1908..... | 38,541                                          | 12,527,776        | 0-6               | 1-89    | 21,604                                          | 886,033           | 0-3               | 13-4    |
| 1909..... | 648,700                                         | 13,176,476        | 9-5               | 1-94    | 39,300                                          | 925,333           | 0-6               | 13-6    |
| 1910..... | 1,151,186                                       | 14,327,662        | 16-5              | 2-05    | 42,020                                          | 967,353           | 0-6               | 13-8    |
| 1911..... | 1,343,001                                       | 15,670,663        | 18-6              | 2-18    | 54,275                                          | 1,021,628         | 0-8               | 14-2    |
| 1912..... | 1,303,237                                       | 16,973,900        | 17-7              | 2-30    | 49,977                                          | 1,071,605         | 0-7               | 14-5    |
| 1913..... | 927,131                                         | 17,901,031        | 12-2              | 2-35    | 55,572                                          | 1,127,177         | 0-7               | 14-8    |
| 1914..... | 626,198                                         | 18,527,229        | 7-9               | 2-35    | 35,057                                          | 1,162,234         | 0-4               | 14-8    |
| 1915..... | 61,344                                          | 18,588,573        | 0-8               | 2-33    | 50,354                                          | 1,212,588         | 0-6               | 15-2    |

<sup>1</sup> These figures of *net* amounts of coin issued show the values issued less the values withdrawn and to this extent do not correspond with the figures shown in Table 2.



## 4.—Circulation in Canada of Silver and Bronze Coin, Dec. 31, 1901-34—concluded.

| Dec. 31—  | Net Amounts of Silver Coin Issued. <sup>1</sup> |                | Amounts per head. |         | Net Amounts of Bronze Coin Issued. <sup>1</sup> |                | Amounts per head. |         |
|-----------|-------------------------------------------------|----------------|-------------------|---------|-------------------------------------------------|----------------|-------------------|---------|
|           | A. During the Year.                             | B. Since 1858. | Col. A.           | Col. B. | C. During the Year.                             | D. Since 1858. | Col. C.           | Col. D. |
|           | \$                                              | \$             | cts.              | \$      | \$                                              | \$             | cts.              | cts.    |
| 1916..... | 1,179,516                                       | 19,768,089     | 14.7              | 2.47    | 110,646                                         | 1,323,234      | 1.4               | 16.5    |
| 1917..... | 1,790,941                                       | 21,559,030     | 22.2              | 2.68    | 116,800                                         | 1,440,634      | 1.4               | 17.9    |
| 1918..... | 2,329,091                                       | 23,888,121     | 28.6              | 2.93    | 131,777                                         | 1,571,811      | 1.6               | 19.3    |
| 1919..... | 3,196,027                                       | 27,084,148     | 38.5              | 3.26    | 115,011                                         | 1,686,822      | 1.4               | 20.3    |
| 1920..... | 1,300,702                                       | 28,384,850     | 15.2              | 3.32    | 208,961                                         | 1,895,783      | 2.4               | 22.2    |
| 1921..... | 40,191                                          | 28,344,659     | 0.5               | 3.22    | 60,543                                          | 1,956,326      | 0.7               | 22.2    |
| 1922..... | -193,215                                        | 28,151,444     | -2.2              | 3.16    | 11,742                                          | 1,968,068      | 0.1               | 22.1    |
| 1923..... | -99,097                                         | 28,052,347     | -1.1              | 3.11    | 19,118                                          | 1,987,186      | 0.2               | 22.1    |
| 1924..... | -188,845                                        | 27,863,502     | -2.1              | 3.05    | 11,430                                          | 1,998,616      | 0.1               | 21.9    |
| 1925..... | -150,483                                        | 27,713,019     | -1.6              | 2.98    | 21,854                                          | 2,020,470      | 0.2               | 21.7    |
| 1926..... | -279,556                                        | 27,433,463     | -3.0              | 2.90    | 23,363                                          | 2,043,833      | 0.2               | 21.6    |
| 1927..... | -328,929                                        | 27,104,534     | -3.4              | 2.81    | 36,363                                          | 2,080,196      | 0.4               | 21.6    |
| 1928..... | 633,420                                         | 27,737,963     | 6.4               | 2.82    | 91,461                                          | 2,171,657      | 0.9               | 22.1    |
| 1929..... | 900,232                                         | 28,638,195     | 9.0               | 2.86    | 119,132                                         | 2,290,789      | 1.2               | 22.8    |
| 1930..... | -75,865                                         | 28,562,330     | -0.7              | 2.80    | 6,616                                           | 2,297,405      | 0.1               | 22.5    |
| 1931..... | 144,018                                         | 28,706,348     | 1.4               | 2.77    | 48,649                                          | 2,346,054      | 0.5               | 22.6    |
| 1932..... | 147,392                                         | 28,853,740     | 1.4               | 2.75    | 212,908                                         | 2,558,962      | 2.0               | 24.4    |
| 1933..... | -323,400                                        | 28,530,340     | -3.0              | 2.67    | 119,340                                         | 2,678,302      | 1.1               | 25.0    |
| 1934..... | 172,300                                         | 28,702,640     | 1.6               | 2.65    | 66,994                                          | 2,745,296      | 0.6               | 25.3    |

<sup>1</sup> These figures of *net* amounts of coin issued show the values issued less the values withdrawn and to this extent do not correspond with the figures shown in Table 2.

**Dominion Notes.**—Prior to the taking over of the note issue by the Bank of Canada when it opened on Mar. 11, 1935, Dominion notes were issued under any one of three statutory authorities: (1) the Dominion Notes Act (Statutes of 1934, c. 34), which required a gold reserve of 25 p.c. to be held against the first \$120,000,000 of notes issued and full gold coverage against any issue in excess of \$120,000,000; (2) the Finance Act (R.S.C. 1927, c. 70), Part II of which authorized the Minister of Finance to advance to any chartered bank or to the savings banks of Quebec, Dominion notes to any amount on the pledge of approved securities deposited with the Minister. These advances bore interest and no gold coverage was required to be held on Dominion notes so advanced; (3) Chap. 4 of the Statutes of 1915, authorizing the Government to issue Dominion notes to the amount of \$26,000,000 without gold coverage, but partly covered by the deposit of \$16,000,000 of railway securities guaranteed by the Dominion Government.\*

\* The following is an outline of Canadian legislation respecting the issue of notes. After Confederation, by an Act of 1868 (31 Vict., c. 46), authority was given for the issue of notes to the extent of eight million dollars. The reserve was fixed at 20 p.c. up to a circulation of five millions; beyond that, 25 p.c. to be held as reserve. The law of 1870 (33 Vict., c. 10) authorized a limit of nine million dollars. The reserve was fixed at 20 p.c., but the nine millions were only to be issued when the specie amounted to two millions. Dollar for dollar was to be held beyond nine millions. In 1872 (35 Vict., c. 7) the reserve for the excess over nine millions was fixed at 35 p.c. in specie. This was amended in 1875 (38 Vict., c. 5) by requiring dollar for dollar beyond twelve millions; for the reserve between nine and twelve millions 50 p.c. in specie was to be held. In 1876 the law respecting Dominion notes was extended to the provinces of Prince Edward Island, British Columbia and Manitoba. In 1880 (43 Vict., c. 13) the basis of the present standard was established. A reserve of 25 p.c. in gold and guaranteed debentures was required, of which 15 p.c. at least was to be in gold. The limit was raised to twenty million dollars. In 1894 (57-58 Vict., c. 21) the limit was raised to twenty-five millions, but this was found unworkable and was repealed in 1895 (58-59 Vict., c. 16), and authority was given to issue notes to any amount over twenty millions, on holding dollar for dollar beyond that sum. In 1903 (3 Edw. VII, c. 43) the Minister of Finance was required to hold gold and guaranteed debentures of not less than 25 p.c. on Dominion notes issued and outstanding up to thirty million dollars; beyond thirty millions he was required to hold gold equal to the excess. The Dominion Notes Act of 1914 (5 Geo. V, c. 4), passed in the short war session of August, 1914, provided that a gold reserve of not less than 25 p.c. should be held against issues of Dominion notes up to \$50,000,000 and dollar for dollar against the excess. In 1934, it was provided that a gold reserve of 25 p.c. be held against issues of Dominion notes up to \$120,000,000 and dollar for dollar against the excess. In the session of 1914, the Government was given power, by 5 Geo. V, c. 3, "in case of war, invasion, riot or insurrection, real or apprehended, and in case of any real or apprehended financial crisis", by proclamation to authorize the issue of Dominion notes to the chartered banks upon their pledge of approved securities deposited with the Minister of Finance. This was made a regular and permanent feature of the system by c. 48 of the Statutes of 1923, consolidated as c. 70, R.S.C., 1927, as stated above.



Dominion notes are of two types, those in general circulation and those used only in inter-bank transactions, the latter being described as "special" notes. Notes in general circulation are of the denominations 25 cents, \$1, \$2, \$4, \$5, \$50, \$500, \$1,000, but for a considerable time no notes of \$4 and \$50 denominations have been issued. "Special" notes are mainly of \$5,000 and \$50,000 denominations, \$1,000 "specials" being no longer issued. The amounts of each denomination of both types of notes in circulation are given, as at Mar. 31 of each recent year, in Table 7, while Tables 5 and 6 are concerned with gold reserves.

### 5.—Dominion Notes Outstanding and Reserves as at June 30, 1900-34.

NOTE.—Corresponding figures for 1890-99 inclusive are given at p. 886 of the 1933 Year Book.

| As at<br>June 30— | Notes Outstanding. <sup>1</sup>                                         |                                                                  |             |                |                           | Reserves<br>of Specie. | Notes<br>Outstanding<br>Uncovered<br>by Specie. <sup>5</sup> | Percentage<br>of Specie<br>Reserves<br>to Notes<br>Out-<br>standing. |
|-------------------|-------------------------------------------------------------------------|------------------------------------------------------------------|-------------|----------------|---------------------------|------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|
|                   | Small<br>Notes,<br>\$1, 2, 4 and 5,<br>and<br>Fractionals. <sup>2</sup> | Large<br>Notes,<br>\$50, 100, 500,<br>1,000, 5,000. <sup>3</sup> | Totals.     |                |                           |                        |                                                              |                                                                      |
|                   |                                                                         |                                                                  | Amount.     | Per<br>capita. | Index<br>No. <sup>4</sup> |                        |                                                              |                                                                      |
|                   | \$                                                                      | \$                                                               | \$          | \$             |                           | \$                     | \$                                                           | p.c.                                                                 |
| 1900.....         | 9,640,473                                                               | 16,454,450                                                       | 26,094,923  | 4-92           | 100                       | 12,476,044             | 11,672,213                                                   | 48                                                                   |
| 1901.....         | 10,161,809                                                              | 17,736,700                                                       | 27,898,509  | 5-19           | 105                       | 14,578,117             | 11,394,769                                                   | 52                                                                   |
| 1902.....         | 11,029,985                                                              | 21,750,400                                                       | 32,780,385  | 5-96           | 121                       | 18,901,639             | 11,932,080                                                   | 58                                                                   |
| 1903.....         | 12,173,248                                                              | 26,832,950                                                       | 39,006,198  | 6-91           | 140                       | 25,930,594             | 11,128,938                                                   | 66                                                                   |
| 1904.....         | 12,581,833                                                              | 28,992,950                                                       | 41,574,783  | 7-13           | 145                       | 23,422,625             | 16,205,492                                                   | 56                                                                   |
| 1905.....         | 13,045,820                                                              | 34,288,400                                                       | 47,334,220  | 7-88           | 160                       | 28,890,887             | 16,062,098                                                   | 61                                                                   |
| 1906.....         | 14,633,576                                                              | 35,307,850                                                       | 49,941,426  | 8-06           | 164                       | 29,013,931             | 18,980,829                                                   | 58                                                                   |
| 1907.....         | 15,939,131                                                              | 42,377,400                                                       | 58,316,531  | 9-09           | 185                       | 34,989,270             | 21,380,595                                                   | 60                                                                   |
| 1908.....         | 15,279,675                                                              | 47,778,450                                                       | 63,058,125  | 9-52           | 194                       | 39,141,184             | 21,950,275                                                   | 62                                                                   |
| 1909.....         | 15,860,149                                                              | 63,145,150                                                       | 79,005,299  | 11-62          | 236                       | 55,363,266             | 21,695,367                                                   | 70                                                                   |
| 1910.....         | 17,871,477                                                              | 71,414,250                                                       | 89,285,727  | 12-78          | 260                       | 66,409,121             | 20,929,940                                                   | 74                                                                   |
| 1911.....         | 19,840,695                                                              | 79,468,250                                                       | 99,308,945  | 13-78          | 280                       | 78,005,231             | 21,303,714                                                   | 78                                                                   |
| 1912.....         | 22,982,588                                                              | 88,949,650                                                       | 111,932,238 | 15-14          | 308                       | 92,442,098             | 19,490,140                                                   | 82                                                                   |
| 1913.....         | 28,845,737                                                              | 87,517,800                                                       | 116,363,537 | 15-24          | 310                       | 94,943,499             | 21,420,038                                                   | 81                                                                   |
| 1914.....         | 24,586,448                                                              | 89,595,650                                                       | 114,182,098 | 14-49          | 294                       | 92,663,575             | 21,518,523                                                   | 81                                                                   |
| 1915.....         | 25,183,685                                                              | 126,937,050                                                      | 152,120,735 | 18-94          | 385                       | 89,573,041             | 62,547,693                                                   | 59                                                                   |
| 1916.....         | 27,283,425                                                              | 148,213,750                                                      | 175,497,175 | 21-93          | 446                       | 114,071,032            | 61,426,143                                                   | 66                                                                   |
| 1917.....         | 29,468,409                                                              | 149,069,600                                                      | 178,568,009 | 22-15          | 450                       | 119,110,113            | 59,457,896                                                   | 67                                                                   |
| 1918.....         | 32,623,514                                                              | 248,716,000                                                      | 281,339,514 | 34-52          | 701                       | 114,951,618            | 166,387,896                                                  | 41                                                                   |
| 1919.....         | 35,084,194                                                              | 265,665,650                                                      | 300,749,844 | 36-19          | 736                       | 118,268,407            | 182,481,437                                                  | 39                                                                   |
| 1920.....         | 37,203,890                                                              | 254,812,400                                                      | 292,016,290 | 34-13          | 694                       | 95,538,190             | 196,478,100                                                  | 33                                                                   |
| 1921.....         | 34,403,934                                                              | 234,365,250                                                      | 268,769,184 | 30-58          | 621                       | 83,854,487             | 184,914,697                                                  | 31                                                                   |
| 1922.....         | 31,404,161                                                              | 201,344,250                                                      | 232,748,411 | 26-08          | 530                       | 85,495,068             | 147,253,343                                                  | 37                                                                   |
| 1923.....         | 33,276,533                                                              | 200,869,900                                                      | 234,146,433 | 25-98          | 528                       | 121,025,725            | 113,120,708                                                  | 52                                                                   |
| 1924.....         | 34,816,442                                                              | 175,492,150                                                      | 210,308,592 | 22-99          | 467                       | 96,732,954             | 113,575,638                                                  | 46                                                                   |
| 1925.....         | 32,294,827                                                              | 176,096,650                                                      | 208,391,477 | 22-42          | 456                       | 116,263,994            | 92,127,483                                                   | 56                                                                   |
| 1926.....         | 32,512,285                                                              | 143,200,630                                                      | 175,712,915 | 18-58          | 378                       | 94,999,481             | 80,713,434                                                   | 54                                                                   |
| 1927.....         | 33,845,891                                                              | 143,160,024                                                      | 177,005,915 | 18-37          | 373                       | 105,700,181            | 71,305,734                                                   | 60                                                                   |
| 1928.....         | 35,051,708                                                              | 165,703,650                                                      | 200,755,358 | 20-42          | 415                       | 80,756,302             | 119,999,056                                                  | 40                                                                   |
| 1929.....         | 37,159,177                                                              | 172,803,650                                                      | 209,962,827 | 20-93          | 425                       | 58,931,581             | 151,031,246                                                  | 28                                                                   |
| 1930.....         | 37,029,484                                                              | 137,189,150                                                      | 174,218,634 | 17-07          | 347                       | 65,719,661             | 108,498,973                                                  | 38                                                                   |
| 1931.....         | 35,288,353                                                              | 110,028,650                                                      | 145,317,003 | 14-00          | 285                       | 70,534,481             | 74,782,522                                                   | 49                                                                   |
| 1932.....         | 38,586,871                                                              | 129,686,650                                                      | 168,273,521 | 16-01          | 325                       | 64,849,441             | 103,424,080                                                  | 39                                                                   |
| 1933.....         | 38,194,409                                                              | 146,232,650                                                      | 184,427,059 | 17-27          | 351                       | 69,271,566             | 115,155,493                                                  | 38                                                                   |
| 1934.....         | 38,150,444                                                              | 134,507,150                                                      | 172,657,594 | 15-94          | 324                       | 70,694,158             | 101,963,436                                                  | 41                                                                   |

<sup>1</sup> Includes Dominion notes in the Central Gold Reserves as security for bank note circulation.

<sup>2</sup> Includes provincial notes amounting to \$32,857 in 1890, reduced to \$27,589 on June 30, 1933, and to \$27,585 on June 30, 1934.

<sup>3</sup> Includes issue of \$50,000 notes, 1919-34.

<sup>4</sup> Per capita circulation in 1900 is taken as 100.

<sup>5</sup> The circulation uncovered by specie reserve was to a considerable extent covered, between 1890 and 1910, by the holdings of guaranteed debentures amounting to \$1,946,666. Since 1914 a part of the issue of Dominion notes outstanding has been covered by the holding of securities approved under the Finance Act, 1914, and the Finance Act (R.S.C., 1927, c. 70).

**6.—Gold Held by the Minister of Finance and Dominion Notes in Circulation,  
calendar years 1919-34.<sup>1</sup>**

| Calendar Year. | Dominion<br>Notes in<br>Circulation. | Gold Held<br>for<br>Redemption<br>of Dominion<br>Notes. | Gold<br>Reserve<br>Held on<br>Postal<br>Savings Bank<br>Deposits. <sup>2</sup> | Total Gold<br>Held by<br>Minister<br>of<br>Finance. |
|----------------|--------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------|
|                | \$                                   | \$                                                      | \$                                                                             | \$                                                  |
| 1919.....      | 308,006,768                          | 118,489,692                                             | 4,909,675                                                                      | 123,399,367                                         |
| 1920.....      | 305,806,287                          | 98,751,773                                              | 4,067,897                                                                      | 102,819,670                                         |
| 1921.....      | 271,531,162                          | 84,568,064                                              | 3,666,009                                                                      | 88,234,073                                          |
| 1922.....      | 240,429,548                          | 89,939,108                                              | 3,293,287                                                                      | 83,232,395                                          |
| 1923.....      | 240,862,014                          | 120,651,627                                             | 3,154,358                                                                      | 123,805,985                                         |
| 1924.....      | 226,002,628                          | 107,257,428                                             | 3,308,575                                                                      | 110,566,003                                         |
| 1925.....      | 212,681,059                          | 119,744,819                                             | 3,241,490                                                                      | 122,986,309                                         |
| 1926.....      | 190,004,824                          | 109,369,550                                             | 3,162,930                                                                      | 112,532,480                                         |
| 1927.....      | 184,898,003                          | 107,417,631                                             | 3,083,440                                                                      | 110,501,071                                         |
| 1928.....      | 201,171,816                          | 89,218,454                                              | 2,994,001                                                                      | 92,212,455                                          |
| 1929.....      | 204,381,409                          | 59,345,233                                              | 2,709,169                                                                      | 62,054,402                                          |
| 1930.....      | 174,616,019                          | 79,000,297                                              | 2,483,959                                                                      | 81,484,256                                          |
| 1931.....      | 153,079,362                          | 74,209,510                                              | 2,405,030                                                                      | 76,614,540                                          |
| 1932.....      | 165,878,510                          | 66,854,214                                              | 2,324,246                                                                      | 69,178,460                                          |
| 1933.....      | 179,217,446                          | 69,793,861                                              | 2,311,866                                                                      | 72,105,727                                          |
| 1934.....      | 190,261,981                          | 70,249,952                                              | 2,257,367                                                                      | 72,507,319                                          |

<sup>1</sup>Yearly averages. <sup>2</sup>In the Savings Bank Act (c. 15, R.S.C., 1927) it is provided that the Minister of Finance shall hold 10 p.c. gold reserve against postal savings bank deposits.

**7.—Denominations of Dominion Notes in Circulation, as at Mar. 31, 1929-34.**

| Denomination.            | 1929.                          | 1930.              | 1931.              | 1932.              | 1933.              | 1934.              |
|--------------------------|--------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                          | \$                             | \$                 | \$                 | \$                 | \$                 | \$                 |
| \$1.....                 | 19,277,085                     | 18,943,815         | 18,193,832         | 18,655,811         | 17,937,899         | 18,968,653         |
| \$2.....                 | 13,825,560 <sup>1</sup>        | 13,776,806         | 13,283,168         | 13,433,639         | 12,427,570         | 13,072,254         |
| \$4.....                 | 32,223                         | 31,887             | 31,455             | 31,083             | 30,748             | 30,336             |
| \$5.....                 | 277,612                        | 1,109,693          | 1,125,298          | 5,109,547          | 5,220,280          | 5,023,835          |
| \$50.....                | 650                            | 650                | 650                | 650                | 650                | 650                |
| \$500.....               | 1,832,000                      | 1,907,500          | 2,018,000          | 2,491,000          | 3,066,500          | 2,702,500          |
| \$1,000.....             | 4,289,000                      | 4,569,000          | 4,496,000          | 6,143,000          | 7,928,000          | 6,546,000          |
| \$1,000 special.....     | 427,000                        | 479,000            | 609,000            | 6,000              | 1,000              | 1,000              |
| \$5,000 special.....     | 7,570,000                      | 6,700,000          | 8,255,000          | 7,990,000          | 8,510,000          | 8,760,000          |
| \$50,000 special.....    | 155,550,000                    | 125,400,000        | 91,700,000         | 102,200,000        | 124,500,000        | 116,200,000        |
| Fractional currency..... | 1,392,463                      | 1,380,648          | 1,326,251          | 1,299,856          | 1,276,646          | 1,285,107          |
| Provincial notes.....    | 27,624                         | 27,619             | 27,603             | 27,594             | 27,589             | 27,587             |
| <b>Totals.....</b>       | <b>204,501,217<sup>1</sup></b> | <b>174,326,618</b> | <b>141,066,257</b> | <b>157,388,180</b> | <b>180,926,882</b> | <b>172,617,922</b> |

<sup>1</sup>Revised since the publication of the 1933 Year Book.

**Bank Notes.**—Bank notes form the chief circulating medium used in Canada. Under the Bank Act, the banks are authorized to issue notes of the denominations of \$5 and multiples thereof to the amount of their paid-up capital. These notes are not in normal times legal tender. See pp. 962-963 for 1934 revision of Bank Act, outlining gradual reduction in note issue of chartered banks.

In addition, during the period of the movement of the crops (Sept. 1 to Feb. 28-29), the banks were permitted to issue "excess" circulation to the amount of 15 p.c. of their combined capital and "rest" or reserve funds. In the event of war or panic the Government might permit the "excess" to run all the year. The banks paid interest on this excess at 5 p.c. If a bank desired to extend its circulation, it might also do so by depositing dollar for dollar in gold or Dominion notes in the Central Gold Reserves. These issues of bank notes are no longer allowed since the establishment of the Bank of Canada.

In case of insolvency the notes of a bank are a first lien upon its assets. Notes are further secured, in case of insolvency, by the Bank Note Circulation Redemption Fund, to which all banks contribute 5 p.c. of their average circulation not covered

by gold or Dominion notes deposited in the Central Gold Reserves established in 1913. The sum thus secured is available for the redemption of the notes of failed banks.

The figures of bank note circulation are given in Table 8. Table 9 brings together the statistics of the amount of circulating media in the hands of the general public, yearly averages being used where possible. "In the hands of the general public" here includes coin and small Dominion notes in the tills of the banks used for making change as well as that in the hands of the general public, but does not include Dominion notes of denominations larger than five dollars which were used until recently for inter-bank transactions and reserves.\* In both Tables 8 and 9 "bank notes in circulation" includes notes of other banks held by the banks, averaging about \$10,400,000 in 1934. As for the silver, nickel and bronze coinage in Table 9, the figures are the total amounts issued by the Mint since 1858 less amounts withdrawn from circulation and therefore include amounts held by the banks as well as coins lost by the public, which over such a period would probably amount to a considerable sum.

\* As a result of the organization of the Bank of Canada in March, 1935, All Dominion notes are being withdrawn from circulation and are being replaced by Bank of Canada notes, the denominations of which range over \$5. See p. 964.

#### 8.—Statistics of Bank Note Circulation, calendar years 1900-34.

NOTE.—The statistics in this table are averages computed from the twelve monthly returns in each year. Figures for 1892-99 will be found at p. 861 of the 1927-28 Year Book.

| Calendar Year. | Paid-up Capital.         | "Rest" Fund. | Bank Note Circulation Redemption Fund. (Held by Minister of Finance.) | Bank Notes in Circulation. |             |                                    |
|----------------|--------------------------|--------------|-----------------------------------------------------------------------|----------------------------|-------------|------------------------------------|
|                |                          |              |                                                                       | Amount.                    | Per capita. | Index No. per capita. <sup>1</sup> |
|                | \$                       | \$           | \$                                                                    | \$                         | \$          |                                    |
| 1900.....      | 65,154,594               | 32,372,394   | 2,221,128                                                             | 46,574,780                 | 8.79        | 100                                |
| 1901.....      | 67,035,615               | 36,249,145   | 2,487,541                                                             | 50,601,205                 | 9.43        | 107                                |
| 1902.....      | 69,869,670               | 40,212,943   | 2,832,401                                                             | 55,412,598                 | 10.08       | 115                                |
| 1903.....      | 76,453,125               | 47,761,536   | 2,971,260                                                             | 60,244,072                 | 10.66       | 121                                |
| 1904.....      | 79,234,191               | 52,082,335   | 3,237,891                                                             | 61,769,888                 | 10.60       | 121                                |
| 1905.....      | 82,655,828               | 56,474,124   | 3,448,463                                                             | 64,025,643                 | 10.66       | 121                                |
| 1906.....      | 91,035,604               | 64,002,266   | 3,923,531                                                             | 70,638,870                 | 11.40       | 130                                |
| 1907.....      | 95,953,732               | 69,806,892   | 4,304,524                                                             | 75,784,482                 | 11.83       | 135                                |
| 1908.....      | 96,147,526               | 72,041,265   | 4,249,367                                                             | 71,401,697                 | 10.78       | 123                                |
| 1909.....      | 97,329,333               | 75,887,695   | 4,317,006                                                             | 73,943,119                 | 10.88       | 124                                |
| 1910.....      | 98,787,929               | 79,970,346   | 4,844,475                                                             | 82,120,303                 | 11.65       | 133                                |
| 1911.....      | 103,009,256              | 88,892,256   | 5,353,838                                                             | 89,982,223                 | 12.49       | 142                                |
| 1912.....      | 112,730,943              | 102,090,476  | 6,211,881                                                             | 100,146,541                | 13.55       | 154                                |
| 1913.....      | 116,297,729              | 109,129,393  | 6,536,341                                                             | 105,265,336                | 13.79       | 157                                |
| 1914.....      | 114,759,807              | 113,130,626  | 6,693,684                                                             | 104,600,185                | 13.28       | 151                                |
| 1915.....      | 113,982,741              | 113,020,310  | 6,756,648                                                             | 105,137,092                | 13.17       | 150                                |
| 1916.....      | 113,175,353              | 112,989,541  | 6,811,213                                                             | 126,691,913                | 15.84       | 180                                |
| 1917.....      | 111,637,755              | 113,560,997  | 6,324,442                                                             | 161,029,606                | 19.98       | 227                                |
| 1918.....      | 110,618,504              | 114,041,500  | 5,817,646                                                             | 198,645,254                | 24.38       | 277                                |
| 1919.....      | 115,004,960              | 121,160,774  | 6,054,419                                                             | 218,919,261                | 26.35       | 300                                |
| 1920.....      | 123,617,120              | 128,756,690  | 6,122,715                                                             | 228,800,379                | 26.75       | 304                                |
| 1921.....      | 129,096,339              | 134,104,030  | 6,417,287                                                             | 194,621,710                | 22.15       | 252                                |
| 1922.....      | 125,456,485              | 129,627,270  | 6,493,593                                                             | 166,466,109                | 18.66       | 212                                |
| 1923.....      | 124,373,203              | 126,441,667  | 6,662,665                                                             | 170,420,792                | 18.02       | 215                                |
| 1924.....      | 122,409,504              | 123,841,666  | 6,347,378                                                             | 166,136,765                | 18.17       | 207                                |
| 1925.....      | 118,331,327              | 123,295,866  | 6,026,617                                                             | 165,235,168                | 17.78       | 202                                |
| 1926.....      | 116,638,254              | 125,441,700  | 5,790,572                                                             | 168,885,995                | 17.87       | 203                                |
| 1927.....      | 121,666,774 <sup>2</sup> | 130,320,897  | 5,861,646                                                             | 172,100,763                | 17.86       | 203                                |
| 1928.....      | 122,839,879              | 134,087,485  | 6,027,466                                                             | 176,716,979                | 17.97       | 205                                |
| 1929.....      | 137,269,085              | 160,636,682  | 6,246,861                                                             | 178,291,030                | 17.78       | 202                                |
| 1930.....      | 144,560,874              | 160,639,246  | 6,590,934                                                             | 159,341,085                | 15.61       | 178                                |
| 1931.....      | 144,674,853              | 162,075,000  | 6,825,601                                                             | 141,969,350                | 13.68       | 156                                |
| 1932.....      | 144,500,000              | 162,000,000  | 6,721,355                                                             | 132,165,942                | 12.58       | 143                                |
| 1933.....      | 144,500,000              | 157,250,000  | 6,587,189                                                             | 130,362,488                | 12.21       | 139                                |
| 1934.....      | 144,916,667              | 132,604,166  | 6,618,517                                                             | 135,537,793                | 12.51       | 142                                |

<sup>1</sup>Circulation per capita in 1900 is taken as 100. <sup>2</sup>Figures revised since the 1933 Year Book was issued.



**9.—Circulating Media in the Hands of the General Public, calendar years 1900-34.**

NOTE.—Includes till money in the hands of the banks. See p. 955.

| Cal-<br>endar<br>Year. | Silver. <sup>1</sup> | Nickel. <sup>1</sup> | Bronze. <sup>1</sup> | Bank<br>Notes. <sup>2</sup> | Dominion<br>Notes, <sup>2</sup><br>\$1, \$2, \$4, \$5,<br>and<br>Fractionals. <sup>3</sup> | Totals.     |                |                                                |
|------------------------|----------------------|----------------------|----------------------|-----------------------------|--------------------------------------------------------------------------------------------|-------------|----------------|------------------------------------------------|
|                        |                      |                      |                      |                             |                                                                                            | Amount.     | Per<br>capita. | Index<br>Number<br>per<br>capita. <sup>4</sup> |
|                        | \$                   | \$                   | \$                   | \$                          | \$                                                                                         | \$          | \$             |                                                |
| 1900.....              | 7,911,998            | —                    | 635,429              | 46,574,780                  | 9,997,044                                                                                  | 65,119,251  | 12.28          | 100                                            |
| 1901.....              | 8,279,924            | —                    | 676,429              | 50,601,205                  | 10,595,169                                                                                 | 70,152,727  | 13.06          | 106                                            |
| 1902.....              | 9,053,924            | —                    | 706,429              | 55,412,598                  | 11,442,138                                                                                 | 75,615,089  | 13.76          | 112                                            |
| 1903.....              | 9,687,774            | —                    | 746,429              | 60,244,072                  | 12,321,172                                                                                 | 82,999,447  | 14.69          | 120                                            |
| 1904.....              | 10,037,774           | —                    | 771,429              | 61,769,888                  | 12,813,912                                                                                 | 85,393,003  | 14.65          | 119                                            |
| 1905.....              | 10,487,774           | —                    | 791,429              | 64,025,643                  | 13,499,894                                                                                 | 88,804,740  | 14.80          | 121                                            |
| 1906.....              | 11,295,235           | —                    | 832,429              | 70,638,870                  | 14,797,483                                                                                 | 97,564,017  | 15.74          | 128                                            |
| 1907.....              | 12,489,235           | —                    | 864,429              | 75,784,482                  | 15,973,227                                                                                 | 105,111,373 | 16.39          | 134                                            |
| 1908.....              | 12,527,776           | —                    | 886,033              | 71,401,697                  | 15,615,082                                                                                 | 100,430,588 | 15.16          | 123                                            |
| 1909.....              | 13,176,476           | —                    | 925,333              | 73,943,119                  | 16,235,774                                                                                 | 104,280,702 | 15.33          | 125                                            |
| 1910.....              | 14,372,662           | —                    | 967,353              | 82,120,303                  | 18,098,111                                                                                 | 115,513,429 | 16.52          | 135                                            |
| 1911.....              | 15,670,663           | —                    | 1,021,628            | 89,982,223                  | 21,497,429                                                                                 | 128,171,943 | 17.78          | 145                                            |
| 1912.....              | 16,973,900           | —                    | 1,041,605            | 100,146,541                 | 27,277,341                                                                                 | 145,469,387 | 19.68          | 152                                            |
| 1913.....              | 17,901,031           | —                    | 1,127,177            | 105,265,336                 | 29,067,278                                                                                 | 153,360,822 | 20.09          | 164                                            |
| 1914.....              | 18,527,229           | —                    | 1,162,234            | 104,600,185                 | 26,964,063                                                                                 | 151,253,711 | 19.19          | 156                                            |
| 1915.....              | 18,588,573           | —                    | 1,212,588            | 105,137,092                 | 25,881,570                                                                                 | 150,819,823 | 18.89          | 154                                            |
| 1916.....              | 19,768,089           | —                    | 1,323,234            | 126,691,913                 | 27,857,543                                                                                 | 175,640,779 | 21.94          | 179                                            |
| 1917.....              | 21,559,030           | —                    | 1,440,034            | 161,029,606                 | 31,221,311                                                                                 | 215,249,981 | 26.71          | 218                                            |
| 1918.....              | 23,888,121           | —                    | 1,571,811            | 198,645,254                 | 34,146,836                                                                                 | 258,252,022 | 31.68          | 258                                            |
| 1919.....              | 27,084,148           | —                    | 1,686,822            | 218,919,261                 | 35,492,643                                                                                 | 283,182,874 | 34.08          | 278                                            |
| 1920.....              | 28,384,850           | —                    | 1,895,783            | 228,800,379                 | 37,272,725                                                                                 | 296,353,737 | 34.63          | 282                                            |
| 1921.....              | 28,344,569           | —                    | 1,956,326            | 194,621,710                 | 33,825,582                                                                                 | 258,748,277 | 29.44          | 240                                            |
| 1922.....              | 28,151,444           | 69,000               | 1,968,068            | 166,466,109                 | 31,888,024                                                                                 | 228,542,645 | 25.62          | 209                                            |
| 1923.....              | 28,052,347           | 196,000              | 1,987,186            | 170,420,792                 | 33,387,155                                                                                 | 234,043,480 | 25.98          | 212                                            |
| 1924.....              | 27,863,502           | 270,488              | 1,998,616            | 166,136,765                 | 34,332,178                                                                                 | 230,601,549 | 25.22          | 205                                            |
| 1925.....              | 27,713,019           | 396,471              | 2,020,470            | 165,235,168                 | 32,175,284                                                                                 | 227,540,412 | 24.49          | 200                                            |
| 1926.....              | 27,433,463           | 564,865              | 2,043,833            | 168,885,995                 | 32,675,174                                                                                 | 231,603,330 | 24.51          | 200                                            |
| 1927.....              | 27,104,534           | 813,784              | 2,080,196            | 172,100,763                 | 33,689,474                                                                                 | 235,788,751 | 24.47          | 199                                            |
| 1928.....              | 27,737,963           | 1,063,627            | 2,171,657            | 176,716,979                 | 35,093,625                                                                                 | 242,793,302 | 24.69          | 201                                            |
| 1929.....              | 28,638,195           | 1,330,498            | 2,290,789            | 178,291,030                 | 36,811,966                                                                                 | 247,362,478 | 24.66          | 201                                            |
| 1930.....              | 28,562,330           | 1,494,525            | 2,297,405            | 159,341,085                 | 36,431,368                                                                                 | 228,126,713 | 22.35          | 182                                            |
| 1931.....              | 28,706,348           | 1,775,139            | 2,346,054            | 141,969,350                 | 36,465,462                                                                                 | 211,262,353 | 20.36          | 166                                            |
| 1932.....              | 28,853,740           | 1,939,923            | 2,558,962            | 132,165,942                 | 38,788,027                                                                                 | 204,306,594 | 19.45          | 158                                            |
| 1933.....              | 28,530,340           | 2,064,054            | 2,678,302            | 130,362,488                 | 38,282,588                                                                                 | 201,917,772 | 18.90          | 154                                            |
| 1934.....              | 28,702,640           | 2,256,268            | 2,745,296            | 135,537,793                 | 39,419,123                                                                                 | 208,661,120 | 19.26          | 157                                            |

<sup>1</sup>Figures supplied by the Mint as at Dec. 31 of each year, are the net issues of coinage since 1858 (see Table 4, pp. 951-952).<sup>2</sup>Yearly averages.<sup>3</sup>Dominion notes of larger denominations in hands of banks are not included, but provincial notes, amounting to \$27,589 in 1933 and \$27,586 in 1934, are included.<sup>4</sup>Per capita circulation in 1900=100.**Section 2.—Banking in Canada.**

**Historical.**—In the early days of banking, one of the chief functions of banks was to issue promissory notes payable to the bearer on demand; where the banks' credit was good these notes passed freely from hand to hand, and were the chief circulating medium in the Canadas. In some cases in the Maritime Provinces bank notes were preferred to those issued by the Provincial Governments.

The need of a uniform circulating medium in Canada was felt by the merchants of Montreal toward the end of the eighteenth century, and the prospectus of a proposed bank of issue to be known as the Canada Banking Company was issued in 1792. This scheme, however, depended chiefly on the co-operation of



British capital and was frustrated by the outbreak of war with France. A second project in 1808 for the incorporation of a Bank of Canada failed to secure the assent of the Legislature of Lower Canada.

At the close of the War of 1812 the army bill currency was withdrawn, and public attention once more turned to the expediency of securing a currency through the establishment of banks. The Bank of Montreal began business toward the end of 1817 as a private institution, under articles of association based on the first charter of the Bank of the United States. In the following year, under similar articles of association, the Quebec Bank was established, as well as the Bank of Canada at Montreal and the Bank of Upper Canada at Kingston. The three Lower Canadian institutions obtained their provincial charters in 1822, while the Bank of Upper Canada was superseded by a second Bank of Upper Canada established at York (Toronto) as a chartered bank in 1821. Meanwhile the Bank of New Brunswick had been incorporated in 1820, while in Nova Scotia the Halifax Banking Co. (private) commenced business in 1825, and the Bank of Nova Scotia received a regular charter in 1832. With all of these earlier banks note issue was an important part of their business.

The Bank of British North America, previously incorporated in the United Kingdom, commenced business in Canada in 1836, while Molson's Bank was established in 1853, the Bank of Toronto in 1855, the Banque Nationale in 1860 and the Banque Jacques-Cartier (later the Banque Provinciale du Canada) in 1862. The Union Bank was established in 1866, the Canadian Bank of Commerce in 1867. There were no fewer than 28 banks in existence at Confederation. These were as follows:—

*Ontario and Quebec.*

Bank of Montreal.  
Quebec Bank.  
Commercial Bank of Canada.  
City Bank.  
Gore Bank.  
Bank of British North America.  
Banque du Peuple.  
Niagara District Bank.  
Molson's Bank.  
Bank of Toronto.  
Ontario Bank.  
Eastern Townships Bank.  
Banque Nationale.  
Banque Jacques-Cartier.  
Merchants' Bank of Canada.  
Royal Canadian Bank.

Union Bank of Lower Canada.  
Mechanics' Bank.  
Canadian Bank of Commerce.

*Nova Scotia.*

Bank of Yarmouth.  
Merchants' Bank of Halifax.  
People's Bank of Halifax.  
Union Bank of Halifax.  
Bank of Nova Scotia.

*New Brunswick.*

Bank of New Brunswick.  
Commercial Bank of New Brunswick.  
St. Stephen's Bank.  
People's Bank of New Brunswick.

### Subsection 1.—The Canadian Banking System in General.\*

A brief résumé of the Canadian banking system must emphasize: (1) its growth, from the beginning closely related to the Montreal produce and export trade and to the commerce of Halifax and Saint John; (2) its development of the branch bank system in order to meet the demands of a rapidly moving frontier of settlement; (3) its adaptation to the requirements of the grain and cattle trade of the west; and (4) the consolidation during later years of the features which tended towards its early success. The development of a stable system has been accompanied by failures,† particularly marked about the middle of the 19th century, but progress has nevertheless been steady, based on sound principles, and adapted as closely as could be to the particular needs of the country.

\*For details regarding Canadian bank note issue, see pp. 954-955. †See Table 23, pp. 984-985.

The branch bank is perhaps the most distinctive feature of the Canadian system as it exists to-day, and for a country such as Canada, vast in area and with a small population, the plan has proved a good one. A result of the growth of branch banks has been the partially centralized system that now obtains—centralized as to banks, of which there are now 10, rather than as to districts as in the partially centralized system of the United States.

A second peculiarity of the system is the existence and operation of the Canadian Bankers' Association. Through this body, which was incorporated in 1900 and acts under the authority of the Dominion Treasury Board, co-operation of individual banks is facilitated and encouraged. The association supervises clearing-house transactions, and oversees the printing and issue of notes to its members. Adherence to similar principles and a linking together of the credit of the system result from the co-operation secured through the association.

The elimination of weaker banks or their amalgamation with more stable institutions has been a progressive move towards greater efficiency. Co-operation between the banks and the Dominion Government has been made permanent through the medium of periodic returns and the regulation of note issues and reserves.

Apart from the many detailed services rendered to its clients, the Canadian banking system may be said to perform three main functions as follows:—

1. To put into circulation the paper currency which forms the circulating medium for small exchanges.
2. To provide a mechanism of exchange by the issue of bills of exchange, etc.
3. To form a means by which the credit of the banks and their unused deposits may be put to immediate productive use.

**Legislation Regarding Chartered Banks.\***—The history of Canadian banking legislation began over a century ago with the granting, between 1817 and 1822, of the Royal Assent to charters incorporating the Bank of New Brunswick, the Bank of Upper Canada, the Bank of Montreal, the Quebec Bank and the then Bank of Canada. The right to issue bank notes was exercised by private banks without legislative sanction for a considerable period after the early charters were granted, and before banks became the subject of general legislation. In Lower Canada the practical monopoly of issue was conferred upon the chartered banks by an Act of 1830, whereby the total amount of notes of less than £1 (\$4)† in circulation might not at any time exceed one-fifth of the paid-up capital, and no notes under 5 shillings (\$1) might be issued, it being further provided that all issues of less than £1 might be limited or suppressed by the Legislature.

In 1841, in the first session of the Canadian Legislature after the Union, a tax of 1 p.c. was imposed upon bank note circulation, which was limited to the amount of paid-up capital, notes of less than £1 not to exceed one-fifth of such capital. Various charters granted or renewed after the Union included provisions prohibiting banks from holding shares of their own stock or granting advances there-against. They were also prohibited from lending on the security of lands, houses, ships or pledge of merchandise (though such could be taken as additional security for debts previously contracted) or holding lands or houses except for the transaction of their business, neither could they own ships nor be engaged in trade except as dealers in bullion or bills of exchange, the object being to confine trans-

\* Revised from information furnished by the Office of the Inspector-General of Banks, Department of Finance.

† In the "Old Currency" £1 was equivalent to \$4 and 1 shilling to 20c.

actions to legitimate banking business. Statements of assets and liabilities were to be submitted periodically—half-yearly or yearly—and such further information as the Government might call for was to be supplied confidentially. A further and important enactment was the imposition of the double liability upon shareholders, which had not previously existed with respect to the banks of Lower Canada, although it had been for several years a requirement of the younger banks of Upper Canada and first appeared in British North America in the Act incorporating the Bank of Nova Scotia, enacted in 1832. Suspension of specie payments on demand for a period of 60 days, either consecutively or at intervals during one year, was to cause forfeiture of charter. Total liabilities were not to exceed thrice “the aggregate amount of capital stock paid in, and the deposit made in the bank in specie and Government securities for money”, but this provision proved of doubtful utility.

In 1850 what was known as the “Free Banking Act” prohibited any but the chartered banks or other corporations or persons authorized under the new Act from issuing notes. A period of one year was allowed for banks or companies, whose right of issue was thus withdrawn, to retire their notes outstanding. It was provided that individuals or partners might establish banks, or joint stock companies with a minimum capital of £25,000 (\$100,000) might be formed to carry on the business, but in such cases operations were to be confined to an office in only one place and total liabilities were not to exceed thrice the amount of paid-up capital. In order to issue notes the banks thus formed were obliged to deposit with the Receiver-General provincial or provincially guaranteed securities for not less than £25,000 (\$100,000) par value, receiving therefor registered notes. The chartered banks already existing could surrender their right of circulation against assets and secure from the Receiver-General registered notes in return for the deposit of securities, which special issue was not subject to the 1 p.c. tax imposed by the Act of 1841. The legislation included provisions giving effect for the first time to the principle of making bank notes a preferred claim, it being stipulated with respect to any one-office banks established under the Act that, if securities against outstanding notes did not realize sufficient, the general assets of a bank, if wound up, were first to be applied towards the payment of its notes.

Legislation of 1851 increased the period allowed for the retirement of note issues not in conformity with previous legislation from one to five years, provided at least one-fourth of the average circulation during the year 1850—and not secured by the pledge of bonds—was retired annually. Provision was made for partial remission and entire exemption within a specified period from the tax on bank note circulation, subject to certain restriction of such circulation. At the same time permission was granted to issue in excess of the restricted formula against gold or silver coin or bullion, or debentures of any kind issued by the Receiver-General, without requiring the banks actually to deposit such debentures and secure registered notes. The debentures, however, were to be applicable exclusively to the redemption of notes in case of failure. Monthly rather than half-yearly returns now became necessary. In 1853, to encourage the issue of “secured” notes, the issue was permitted in excess of paid-up capital to the extent of specie holdings or debentures receivable, although actual deposit of securities with the Receiver-General was not required. The tax of 1 p.c. was to be calculated only on the average circulation outstanding in excess of such specie and security holdings. Until 1858 banks charging or receiving interest at a rate higher than 6 p.c. were liable to onerous penalties. In that year it was enacted generally that any rate of interest might be



exacted, but banks were prohibited from taking or stipulating for a higher rate than 7 p.c. In 1859, at the urgent request of the banks, a measure was passed authorizing them to make advances on the security of bills of lading and warehouse receipts covering certain commodities.

By 1861-62 free banking had practically run its course. In all, six banks had taken advantage of the legislation, one of which—the Bank of British North America—doubtless found it valuable. The others did not thrive. The Act was finally repealed by the Provincial Notes Act of 1866, which aimed at a gradual reduction in the volume of bank note circulation.

By Section 91 of the British North America Act, the right to legislate respecting banking, the incorporation of banks and the issue of paper money was assigned exclusively to the Dominion Parliament. A temporary measure was passed in 1867, largely by way of re-enactment until 1870 of previous legislation, but extending the powers of banks formerly incorporated by any of the provinces to the territory of the whole Dominion, and subjecting banks in New Brunswick and Nova Scotia to a tax of 1 p.c. upon the excess of their average notes in circulation above their average holdings of coin and bullion. (In these provinces there had been no general banking Act, special provisions being embodied in the respective charters which differed in only a few essential respects from those granted in Upper and Lower Canada.) It was re-enacted that banks were entitled to hold and dispose of mortgages on realty as additional security for debts already contracted and to acquire title to mortgaged property if necessary.

The Bank Act of 1870 provided that new banks must have a minimum paid-up capital of \$200,000 and that at least 20 p.c. of the subscribed capital must be paid up in each year after the commencement of business. A proposal to limit the liabilities of banks in relation to capital and specie and Government debenture holdings was not translated into legislation. Bank notes in circulation were not to exceed the amount of paid-up capital. The right to issue notes under \$4 was withdrawn, largely in consideration of the abolition of the tax of 1 p.c. on note circulation. If possible up to 50 p.c., but in no case less than one-third, of a bank's cash reserves were to be held in Dominion notes. Dividends were limited to 8 p.c. until or unless the bank's reserve fund was the equivalent of 20 p.c. of its paid-up capital. In case of the failure of a bank, double liability of shareholders became enforceable without waiting for the realization of the bank's general assets. Banks were required to transmit certified lists of shareholders annually, to be laid before Parliament. Any existing bank was permitted, on the authority of the shareholders, to apply for an extension of its charter, and the Governor in Council, upon the recommendation of the Minister of Justice and the Treasury Board, was empowered to extend such charter to 1881. Any suspension by a bank of payment of its liabilities for a period of 90 days would constitute insolvency, and operate as a forfeiture of its charter.

In 1871 the first comprehensive Banking Act of the Dominion was passed. A large part of the statute was devoted to the re-enactment and consolidation of legislation already in force, although the measure of 1870 contained the main features of the Government's policy. The procedure relative to extension of charters laid down in the preceding year was superseded by this Act, which became the charter of the banks until July 1, 1881, that date being set in contemplation of regular decennial revisions. No new bank was permitted to commence business



with less than \$500,000 capital *bona fide* subscribed and \$100,000 similarly paid up, with the further proviso that at least \$200,000 must be paid up within two years after commencement of business. The sections respecting loans against warehouse receipts, etc., were thoroughly revised and difficulties of procedure removed. Banks were permitted to take security on commodities in store pending marketing, and also while undergoing conversion from the raw to the finished state. Advances were allowed upon security of shares of other banks. It was provided that the rate of interest or discount charged by a bank should not exceed 7 p.c. and that no higher rate should be recoverable. Monthly returns of assets and liabilities were required. Certain technical amendments were made to the Bank Act in 1872, 1873 and 1875. In 1879 the power to lend upon the security of shares of other banks was repealed.

At the first general revision of the Bank Act in 1880 (effective 1881), a note holder was definitely recognized as a preferred creditor, claims of the Dominion and Provincial Governments, respectively, ranking next in order of preference. Banks were prohibited from issuing notes under \$5, higher denominations to be multiples of this sum. Dominion notes were now to constitute not less than 40 p.c. of the bank's cash reserves. Monthly returns of a more detailed character were to be made. The Act was amended in 1883 to enforce more effectively the prohibitions, restrictions and duties already imposed upon the banks. The use of certain titles by private bankers not operating under the provisions of the Act was prohibited.

At the revision of 1890 (effective 1891), it was stipulated that not less than \$250,000 capital must be paid up before a certificate permitting a bank to commence business could be issued by the Treasury Board. A period of one year from the date of the charter was allowed for the payment of the capital and the carrying out of other preliminaries. Dividends were not to exceed 8 p.c. until or unless the reserve fund was the equivalent of 30 p.c. of the paid-up capital. A fund known as the "Bank Note Circulation Redemption Fund" was established, consisting of deposits made by the banks with the Minister of Finance of amounts equal to 5 p.c. of their average note circulation, such deposits to be subject to adjustment annually, and to constitute a guarantee of the payment of all notes of a suspended bank with interest at 6 p.c. from the date of suspension until the date when their redemption was undertaken by the liquidator. Failing action by the liquidator within two months, the Minister of Finance was authorized to redeem the notes out of the fund, and such outlay, if not made good out of the assets of the failed bank, was to be reimbursed by the contributing banks *pro rata* to their contributions. Another major change gave the banks, in certain classes of loans, the same legal power to take security over the borrowers' goods as had previously been granted by warehouse receipts. This enactment served to make general and more clear principles already recognized by previous legislation and practice. Directors' qualifications were set out more clearly and it was now provided that a majority only of directors, instead of all, need be British subjects. Penalties for the excessive issue of circulation were made more severe.

The revision of 1900 (effective 1901) recognized the Canadian Bankers' Association as an agency in the supervision and control of certain activities of the banks. It was charged, under the Treasury Board, with the responsibility of supervising the printing and distribution of notes to the banks and their issue and destruction;

also with control over clearing houses and the appointment of curators to supervise the affairs of suspended banks. The amended Act also included provisions permitting one bank to sell its assets to another. More detailed monthly returns were required and the interest on notes of failed banks was reduced from 6 p.c. to 5 p.c. In 1908, after the financial crisis of 1907, provision was made for emergency circulation during the crop moving season from October to January, when banks were allowed to issue excess circulation up to 15 p.c. of their combined paid-up capital and rest or reserve funds, this emergency circulation to be taxed at a rate not exceeding 5 p.c. per annum. In 1912, the period was extended to the six months from September to February inclusive.

At the fourth revision of the Bank Act in 1913 provision was made for an audit of each bank's affairs by auditors appointed by the shareholders. There was also provision for the establishment of Central Gold Reserves in which banks might deposit gold or Dominion notes for the purpose of issuing additional notes of their own there-against. Annual reports to the Minister of the fair market value of real and immovable property held by the banks for their own use were required. Banks were empowered to lend to farmers upon security of their threshed grain. As a war measure the provision for emergency circulation was extended in 1914 to cover the whole year and banks were further authorized to make payments in their own notes instead of in gold or Dominion notes.

The fifth revision of 1923 (13-14 Geo. V, c. 32) resulted in numerous important changes. The qualifications of provisional directors were re-defined, while provision was made for keeping records of attendance at directors' meetings and bringing them to the notice of shareholders. Annual and monthly statements were given further attention and more complete returns required, including statements of controlled companies in the names of which any part of a bank's operations were carried on. Other or special returns were to be made if called for by the Minister. Two auditors were now to be appointed by the shareholders instead of one, and the qualifications, duties and responsibilities of auditors were more clearly defined. The personal liability of directors in case of distribution of profits in excess of legal limits was also more definitely expressed. Regulations regarding loans were amended and advances to any officer or clerk of a bank could not, in any circumstances, exceed \$10,000. Registration of security for loans under Sec. 88 was provided for. It became necessary for guarantee and pension funds to be invested in trustee securities. The punishment of directors and other bank officials for making false statements of a bank's position was provided for in Sec. 153. In 1924, as a result of the failure of the Home Bank of Canada, provision was made for periodical examination of the chartered banks by an Inspector-General of Banks, who was to be an officer of the Department of Finance.

The sixth revision of the Bank Act was postponed from 1933 to 1934 (c. 24), for adaptation to the establishment of the new Bank of Canada, and most of the alterations were to provide for the relations of the chartered banks with the Bank of Canada when the latter should be organized and authorized to commence business. The chartered banks were then to carry a reserve (consisting of a deposit with or notes of the Bank of Canada) amounting to at least 5 p.c. of their deposit liabilities in Canada, and in addition to maintain adequate reserves for external liabilities. The notes of the chartered banks were to be gradually replaced by those of the Bank of Canada as the circulating medium in Canada. To this end notes in circu-

lation of chartered banks were not to exceed their unimpaired paid-up capital from the time the Bank of Canada commenced business and were to be reduced by 5 p.c. per annum for five years from Jan. 1, 1936, and 10 p.c. per annum for five years from Jan. 1, 1941, so that at the end of ten years they should not exceed 25 p.c. of the paid-up capital. At the same time, the liability of shareholders under the double liability provision was limited to that proportion of the par value per share which the authorized note issue at the time bore to the paid-up capital of the bank. Other important changes in general provisions included: (1) the curator of a suspended bank was to be appointed or removed by the Minister of Finance, instead of by the Canadian Bankers' Association; and (2) the terms "bank", "banker" or "banking" could not be applied to any activities in Canada except those of chartered banks or approved savings banks; (3) a limitation of 5 p.c. of the paid-up capital (instead of 10 p.c. as formerly) was placed on loans to directors, or any firm, company or corporation in which the President, the General Manager or a director is a partner or shareholder, without the approval of two-thirds of the directors present at a regular or special meeting called for the purpose; (4) a director was prohibited from being present or voting at a meeting of the Board when loans to himself or any firm, company or corporation of which he is a partner or director, are under consideration, an infraction of this prohibition being attended by severe penalties as well as automatic disqualification of such director; (5) a bank was not permitted to allow its name to appear, except as banker for receiving applications, upon any prospectus or advertisement respecting the issue of securities apart from government or municipal issues and certain others of the specific type mentioned in the Act; (6) changes were made to permit of loans under Section 88 against seed grain, binder twine and fertilizer; (7) a definite prohibition was enacted against the charge of a higher rate of interest or discount than 7 p.c. in any part of Canada except the Territories, any violation of such prohibition being attended by penalties against both the bank and the officer responsible; (8) monthly returns were amplified for the purpose of securing a clearer appreciation of the position of the banks, and certain additional returns called for.

**The Bank of Canada.**—Chapter 43 of the Statutes of 1934, "An Act to incorporate the Bank of Canada", provided for the establishment of a central bank in Canada. The capital of the Bank is \$5,000,000, divided into shares of \$50 par value. These shares were offered for public subscription by the Minister of Finance on Sept. 17, 1934, and were largely oversubscribed. The maximum allotment to any one individual or corporation was 15 shares.

Shares of the Bank may be held only by British subjects ordinarily resident in Canada, or by corporations controlled by British subjects ordinarily resident in Canada. The maximum holding permitted one person is 50 shares. Directors, officers or employees of the chartered banks may not hold shares of the Bank.

The Bank is authorized to pay cumulative dividends of  $4\frac{1}{2}$  p.c. per annum from its profits after making such provision as the board thinks proper for bad and doubtful debts, depreciation in assets, pension funds and all such matters as are



properly provided for by banks. The remaining surplus will be paid into the Consolidated Revenue Fund of Canada, and to the rest fund of the Bank, in specified proportions.

The Bank may buy and sell securities of the Dominion, the provinces, the United Kingdom and the United States of America, without restriction if of a maturity not exceeding two years, and in limited amounts if of longer maturity. It may also buy and sell securities of British Dominions and France without restriction, if maturing within six months. Short-term securities of the Dominion or provinces may be rediscounted. The Bank may buy and sell certain classes of commercial paper of limited currency, and if endorsed by a chartered bank may rediscount such commercial paper. Advances for six-month periods may be made to chartered banks, Quebec savings banks, the Dominion or any province against certain classes of collateral, and advances of specified duration may be made to the Dominion or any province in amounts not exceeding a fixed proportion of such government's revenue. The Bank may buy and sell gold, silver, nickel and bronze coin and gold and silver bullion,<sup>\*</sup> and may deal in foreign exchange.

The Bank has assumed the liability for Dominion notes outstanding and is replacing them with its own notes in denominations of \$1, \$2, \$5, \$10, \$20, \$50, \$100, \$500, and \$1,000. The chartered banks are required (under the Bank Act of 1934) to reduce the issue of their own bank notes to 25 p.c. of their paid-up capital during the next 10 years.

The Bank of Canada must maintain a reserve of gold equal to not less than 25 p.c. of its total note and deposit liabilities in Canada. The reserve,\* in addition to gold, may include silver bullion, balances with the Bank of England, the Bank for International Settlements, the Federal Reserve Bank of New York and central banks in gold standard countries, Treasury bills of the United States of America or the United Kingdom having a maturity not exceeding 3 months, and bills of exchange having a maturity not exceeding 90 days, payable in London, New York, or in a gold standard country, less any liabilities of the Bank payable in the currency of the United Kingdom, the United States of America, or a gold standard country.

The bank has an obligation to sell gold in the form of bars on demand, but this may be, and is at present, suspended by Order in Council.

The chartered banks are required to maintain a reserve of not less than 5 p.c. of their deposit liabilities within Canada in the form of deposits with and notes of the Bank.

The Bank will act as the fiscal agent of the Dominion of Canada and may by agreement act as banker or fiscal agent of any province. The Bank must not accept deposits from individuals and thus cannot compete with the chartered banks in commercial banking fields.

<sup>\*</sup>In the weekly statement on pp. 965-966, the net reserve is described as Item 1 of Assets less Item 5 of Liabilities (i.e., sundry liabilities payable in sterling, U.S.A. other foreign gold currencies).



The head office of the Bank is at Ottawa, and it has an agency in each province, namely, at Montreal, Toronto, Winnipeg, Regina, Calgary, Vancouver, Saint John, Halifax and Charlottetown.

The Governor of the Bank is its chief executive officer, and he is assisted by a Deputy Governor and an Assistant Deputy Governor. The first Governors were appointed by the Government and are as follows: Governor, G. F. Towers; Deputy Governor, J. A. C. Osborne; and Assistant Deputy Governor, L. P. St-Amour. Subsequent appointments are to be made by the Board of Directors of the Bank subject to the approval of the Governor in Council.

At the first meeting of the shareholders on Jan. 23, 1935, seven directors were elected for terms to run as follows: one until the 3rd annual general meeting, two until the 4th, two until the 5th, and two until the 6th annual general meeting. In future the directors will be elected by the shareholders for terms of 5 years. Directors must hold at least 10 shares of capital stock of the Bank, must be British subjects ordinarily resident in Canada, must not receive remuneration out of public funds in any capacity, and must have no connection with a chartered bank.

There is also an Executive Committee of the Board of Directors consisting of the Governor, Deputy Governor, and one member of the board, which must meet once a week. This committee has the same powers as the board, but every decision is submitted to the Board of Directors at its next meeting. The board must meet at least four times a year. The Deputy Minister of Finance is an *ex officio* member of the Board of Directors and of the Executive Committee, but is without a vote.

The Bank commenced business on Mar. 11, 1935. A statement is required of the assets and liabilities of the Bank as at the close of business on each Wednesday. The statement of the Bank as at Wednesday, April 17, 1935, follows:—

## BANK OF CANADA.

Statement of Assets and Liabilities as at Wednesday, April 17th, 1935.

| LIABILITIES.                                                                       |                | ASSETS.                                                  |                |
|------------------------------------------------------------------------------------|----------------|----------------------------------------------------------|----------------|
|                                                                                    | \$             |                                                          | \$             |
| 1. CAPITAL PAID UP.....                                                            | 4,999,962.50   | 1. RESERVE:                                              |                |
| 2. RESERVE FUND.....                                                               |                | Gold coin and bullion.....                               | 106,936,409.99 |
| 3. NOTES IN CIRCULATION.....                                                       | 92,779,502.82  | Silver bullion.....                                      | 1,124,454.03   |
| 4. DEPOSITS:                                                                       |                | Reserve in Sterling funds.....                           | 192,470.24     |
| (a) Dominion Government.....                                                       | 16,213,941.92  | Reserve in U.S.A. funds.....                             | 12,876,860.20  |
| (b) Provincial Governments.....                                                    |                | Reserve in funds of other countries on a gold standard.. | 15,729.68      |
| (c) Chartered Banks.....                                                           | 154,759,747.59 | Total.....                                               | 120,645,924.14 |
| (d) Other.....                                                                     | 777,572.19     | 2. SUBSIDIARY COIN.....                                  | 376,238.65     |
| Total.....                                                                         | 171,751,261.70 | 3. BILLS DISCOUNTED:                                     |                |
| 5. SUNDRY LIABILITIES PAYABLE IN STERLING, U.S.A. AND FOREIGN GOLD CURRENCIES..... | Nil            | (a) Commercial Bills.....                                |                |
|                                                                                    |                | (b) Agricultural Bills, etc.....                         |                |

concluded on p. 966

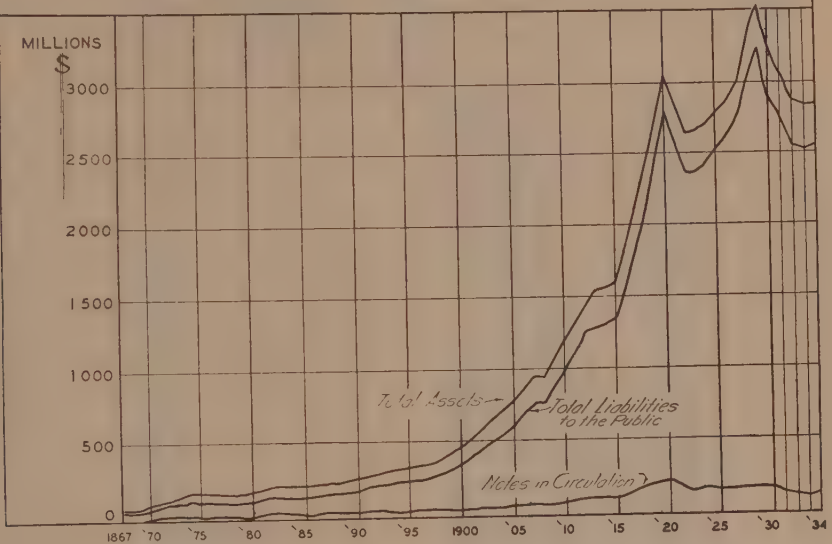
## BANK OF CANADA—concluded.

| LIABILITIES—concluded.         |                         | ASSETS—concluded.                                                                                          |                         |
|--------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------|-------------------------|
|                                | \$                      |                                                                                                            | \$                      |
| 6. ALL OTHER LIABILITIES ..... | 2,539,619.05            | (c) Dominion Government Treasury Bills.....                                                                |                         |
|                                |                         | (d) Provincial Government Treasury Bills.....                                                              |                         |
|                                |                         | Total.....                                                                                                 | Nil                     |
|                                |                         | 4. ADVANCES TO:                                                                                            |                         |
|                                |                         | (a) Dominion Government.....                                                                               |                         |
|                                |                         | (b) Provincial Governments.....                                                                            |                         |
|                                |                         | (c) Chartered Banks.....                                                                                   |                         |
|                                |                         | Total.....                                                                                                 | Nil                     |
|                                |                         | 5. BILLS BOUGHT IN OPEN MARKET NOT INCLUDING TREASURY BILLS.....                                           |                         |
|                                |                         | 6. INVESTMENTS:                                                                                            |                         |
|                                |                         | (a) Dominion Government short-term securities....                                                          | 33,362,606.83           |
|                                |                         | (b) Provincial Government short-term securities....                                                        |                         |
|                                |                         | (c) Other Dominion Government securities.....                                                              | 115,013,636.82          |
|                                |                         | (d) Other Provincial Government securities.....                                                            |                         |
|                                |                         | (e) United Kingdom, other British Dominions or U.S.A. securities of a maturity exceeding three months..... |                         |
|                                |                         | Total.....                                                                                                 | 148,376,243.65          |
|                                |                         | 7. BANK PREMISES.....                                                                                      | 79,110.81               |
|                                |                         | 8. ALL OTHER ASSETS.....                                                                                   | 2,592,828.82            |
| TOTAL.....                     | <u>\$272,070,346.07</u> | TOTAL.....                                                                                                 | <u>\$272,070,346.07</u> |

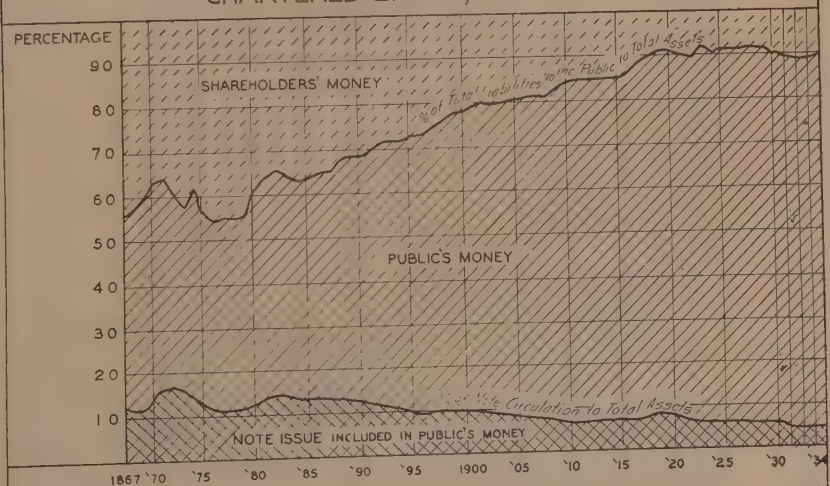
Ratio of Net Reserve (Item 1 of Assets less Item 5 of Liabilities) to Notes and Deposits Liabilities: 45.61 per centum.

**Banking Statistics.**—In Table 10 is given an historical summary of Canadian banking business since Confederation. In order to afford a clear view of the nature of banking transactions in Canada, bank liabilities have been classified in two main groups, liabilities to shareholders and liabilities to the public, only the latter group being ordinarily considered when determining the financial position of any such institution. Assets are divided into four groups, other assets being included in the total. As of interest to students of banking practice, the relative rates of increase of capital and reserve funds may be noted on the accompanying graphs, also the great increase in the proportion of liabilities to the public to total liabilities, and the gradually increasing percentage of liabilities to the public to total assets. The declining proportion of notes in circulation to total liabilities to the public is also characteristic of the evolution of banking in recent times. Holdings of Dominion and Provincial Government and municipal securities were relatively insignificant prior to the Great War.

TOTAL ASSETS, TOTAL LIABILITIES TO THE PUBLIC  
AND  
NOTE CIRCULATION OF THE CHARTERED BANKS, 1867-1934



PERCENTAGE DISTRIBUTION OF THE TOTAL ASSETS  
OF THE  
CHARTERED BANKS, 1867-1934



# 10.—Historical Summary showing Development of the Canadian Banking Business, calendar years, 1867-1934.

NOTE.—The statistics in this table are yearly averages computed from the twelve monthly returns.

## LIABILITIES.

| Cal-<br>endar<br>Year.  | Liabilities<br>to Shareholders. |                             | Liabilities to the Public.  |                                                   |                                                                        |                                      |                                                     |
|-------------------------|---------------------------------|-----------------------------|-----------------------------|---------------------------------------------------|------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------|
|                         | Capital.                        | Rest or<br>Reserve<br>Fund. | Notes<br>in<br>Circulation. | Deposits<br>payable<br>on<br>Demand<br>in Canada. | Deposits<br>payable after<br>Notice or on<br>a Fixed Day<br>in Canada. | Total<br>on<br>Deposit. <sup>1</sup> | Total<br>Liabilities<br>to the Public. <sup>2</sup> |
|                         | \$                              | \$                          | \$                          | \$                                                | \$                                                                     | \$                                   | \$                                                  |
| 1867 <sup>3</sup> ..... | 30,926,470                      | -                           | 9,346,081                   | -                                                 | -                                                                      | 31,375,316                           | 43,273,969                                          |
| 1868.....               | 30,507,447                      | -                           | 9,350,646                   | -                                                 | -                                                                      | 33,653,594                           | 45,144,854                                          |
| 1869.....               | 30,782,637                      | -                           | 9,539,511                   | -                                                 | -                                                                      | 40,028,090                           | 50,940,226                                          |
| 1870.....               | 33,031,249                      | -                           | 15,149,031                  | -                                                 | -                                                                      | 48,763,205                           | 65,685,870                                          |
| 1871.....               | 37,095,340                      | -                           | 20,914,637                  | -                                                 | -                                                                      | 56,287,391                           | 80,250,974                                          |
| 1872.....               | 45,190,085                      | -                           | 25,296,454                  | -                                                 | -                                                                      | 61,481,452                           | 90,864,688                                          |
| 1873.....               | 54,690,561                      | -                           | 27,165,878                  | -                                                 | -                                                                      | 65,426,042                           | 98,982,668                                          |
| 1874.....               | 60,388,340                      | -                           | 27,904,963                  | -                                                 | -                                                                      | 77,113,754                           | 116,412,392                                         |
| 1875.....               | 64,619,513                      | -                           | 23,035,039                  | -                                                 | -                                                                      | 74,642,446                           | 104,609,356                                         |
| 1876.....               | 66,804,398                      | -                           | 21,245,935                  | -                                                 | -                                                                      | 72,852,686                           | 99,614,014                                          |
| 1877.....               | 65,206,009                      | -                           | 20,704,338                  | -                                                 | -                                                                      | 74,166,287                           | 99,810,731                                          |
| 1878.....               | 63,682,863                      | -                           | 20,475,586                  | -                                                 | -                                                                      | 70,856,253                           | 95,538,831                                          |
| 1879.....               | 62,737,276                      | -                           | 19,486,103                  | -                                                 | -                                                                      | 73,151,425                           | 96,760,113                                          |
| 1880.....               | 60,052,117                      | -                           | 22,529,623                  | -                                                 | -                                                                      | 85,303,814                           | 111,838,941                                         |
| 1881.....               | 59,534,977                      | -                           | 28,516,692                  | -                                                 | -                                                                      | 94,346,481                           | 127,176,249                                         |
| 1882.....               | 59,799,644                      | -                           | 33,582,080                  | -                                                 | -                                                                      | 110,133,124                          | 149,777,214                                         |
| 1883.....               | 61,390,118                      | -                           | 33,283,302                  | -                                                 | -                                                                      | 107,648,353                          | 145,933,095                                         |
| 1884.....               | 61,579,021                      | 18,149,193                  | 30,449,410                  | -                                                 | -                                                                      | 102,398,228                          | 137,493,917                                         |
| 1885.....               | 61,711,566                      | 17,879,716                  | 30,720,762                  | -                                                 | -                                                                      | 104,014,660                          | 138,762,695                                         |
| 1886.....               | 61,662,093                      | 17,817,693                  | 31,030,499                  | -                                                 | -                                                                      | 111,449,365                          | 146,954,260                                         |
| 1887.....               | 60,860,561                      | 17,873,582                  | 32,475,118                  | -                                                 | -                                                                      | 112,656,985                          | 149,704,402                                         |
| 1888.....               | 60,345,035                      | 18,529,911                  | 32,205,259                  | -                                                 | -                                                                      | 125,136,473                          | 163,990,797                                         |
| 1889.....               | 60,229,752                      | 19,766,426                  | 32,207,144                  | -                                                 | -                                                                      | 134,650,732                          | 173,029,602                                         |
| 1890.....               | 59,974,902                      | 21,127,838                  | 32,834,511                  | -                                                 | -                                                                      | 135,548,704                          | 173,207,587                                         |
| 1891.....               | 60,700,697                      | 22,821,501                  | 33,061,042                  | -                                                 | -                                                                      | 148,396,968                          | 187,332,325                                         |
| 1892.....               | 61,626,311                      | 24,511,709                  | 33,788,679                  | -                                                 | -                                                                      | 160,668,471                          | 208,062,169                                         |
| 1893.....               | 62,009,346                      | 25,837,753                  | 33,811,925                  | -                                                 | -                                                                      | 174,776,722                          | 217,195,975                                         |
| 1894.....               | 62,063,371                      | 27,041,235                  | 31,166,003                  | -                                                 | -                                                                      | 181,743,890                          | 221,066,724                                         |
| 1895.....               | 61,800,700                      | 27,273,500                  | 30,807,041                  | -                                                 | -                                                                      | 190,916,939                          | 229,794,322                                         |
| 1896.....               | 62,043,173                      | 26,526,632                  | 31,456,297                  | -                                                 | -                                                                      | 193,616,049                          | 232,338,086                                         |
| 1897.....               | 62,027,703                      | 27,087,782                  | 34,350,118                  | -                                                 | -                                                                      | 211,788,096                          | 252,660,708                                         |
| 1898.....               | 62,571,920                      | 27,627,520                  | 37,873,934                  | -                                                 | -                                                                      | 236,161,062                          | 281,076,656                                         |
| 1899.....               | 63,726,399                      | 28,958,989                  | 41,513,139                  | -                                                 | -                                                                      | 266,504,528                          | 318,624,033                                         |
| 1900.....               | 65,154,594                      | 32,372,394                  | 46,574,780                  | -                                                 | -                                                                      | 305,140,242                          | 356,394,095                                         |
| 1901.....               | 67,035,615                      | 36,249,145                  | 50,601,205                  | 95,169,631                                        | 221,624,664                                                            | 349,573,327                          | 420,003,743                                         |
| 1902.....               | 69,869,670                      | 40,212,943                  | 55,412,598                  | 104,424,203                                       | 244,062,545                                                            | 390,370,493                          | 466,963,829                                         |
| 1903.....               | 76,453,125                      | 47,761,536                  | 60,244,072                  | 112,461,757                                       | 269,911,501                                                            | 424,167,140                          | 507,527,550                                         |
| 1904.....               | 79,234,191                      | 52,082,335                  | 61,769,888                  | 117,962,023                                       | 307,007,192                                                            | 470,265,744                          | 554,014,076                                         |
| 1905.....               | 82,655,828                      | 56,474,124                  | 64,025,643                  | 138,116,550                                       | 338,411,275                                                            | 531,243,476                          | 618,678,633                                         |
| 1906.....               | 91,035,604                      | 64,002,266                  | 70,638,870                  | 165,144,569                                       | 381,778,705                                                            | 605,968,513                          | 713,790,553                                         |
| 1907.....               | 95,953,732                      | 69,806,892                  | 76,784,482                  | 166,342,144                                       | 413,014,657                                                            | 654,839,711                          | 769,026,924                                         |
| 1908.....               | 96,147,526                      | 72,041,265                  | 71,401,697                  | 169,721,755                                       | 406,103,063                                                            | 658,367,015                          | 762,077,184                                         |
| 1909.....               | 97,329,333                      | 75,887,695                  | 73,943,119                  | 225,414,828                                       | 464,635,263                                                            | 783,298,890                          | 882,598,547                                         |
| 1910.....               | 98,787,929                      | 79,970,346                  | 82,120,303                  | 260,232,399                                       | 532,087,627                                                            | 909,064,833                          | 1,019,177,601                                       |
| 1911.....               | 103,009,256                     | 88,292,256                  | 89,982,223                  | 304,801,755                                       | 563,976,209                                                            | 980,433,788                          | 1,097,661,393                                       |
| 1912.....               | 112,730,943                     | 102,090,476                 | 100,146,541                 | 359,431,895                                       | 625,705,765                                                            | 1,102,010,383                        | 1,240,124,354                                       |
| 1913.....               | 116,297,720                     | 109,129,393                 | 105,265,336                 | 367,214,143                                       | 626,199,470                                                            | 1,126,871,523                        | 1,287,372,534                                       |
| 1914.....               | 114,759,807                     | 113,130,626                 | 104,600,185                 | 346,069,908                                       | 656,760,637                                                            | 1,144,211,363                        | 1,309,944,006                                       |
| 1915.....               | 113,982,741                     | 113,020,310                 | 105,137,092                 | 358,444,252                                       | 690,904,274                                                            | 1,198,340,315                        | 1,353,629,123                                       |
| 1916.....               | 113,175,353                     | 112,989,541                 | 126,691,913                 | 428,717,781                                       | 780,842,383                                                            | 1,418,035,429                        | 1,596,905,337                                       |
| 1917.....               | 111,637,755                     | 113,560,997                 | 161,029,606                 | 468,049,790                                       | 928,271,638                                                            | 1,643,203,020                        | 1,866,228,236                                       |
| 1918.....               | 110,618,504                     | 114,041,500                 | 198,645,254                 | 587,342,904                                       | 966,341,499                                                            | 1,912,395,792                        | 2,184,359,820                                       |
| 1919.....               | 115,004,960                     | 121,160,774                 | 218,919,261                 | 621,076,065                                       | 1,125,202,403                                                          | 2,189,428,885                        | 2,545,582,568                                       |
| 1920.....               | 123,617,120                     | 128,756,090                 | 228,800,379                 | 653,862,869                                       | 1,239,308,076                                                          | 2,438,079,792                        | 2,784,068,698                                       |
| 1921.....               | 129,096,339                     | 134,104,030                 | 194,621,710                 | 551,914,643                                       | 1,289,347,063                                                          | 2,264,586,736                        | 2,556,454,190                                       |
| 1922.....               | 125,456,485                     | 129,627,270                 | 160,466,109                 | 502,781,234                                       | 1,191,637,004                                                          | 2,120,997,030                        | 2,364,822,657                                       |
| 1923.....               | 124,373,293                     | 126,441,667                 | 170,420,792                 | 523,170,930                                       | 1,197,277,065                                                          | 2,107,606,111                        | 2,374,308,376                                       |
| 1924.....               | 122,409,504                     | 123,841,666                 | 166,136,765                 | 511,218,736                                       | 1,198,246,414                                                          | 2,130,621,760                        | 2,438,771,001                                       |
| 1925.....               | 118,831,327                     | 123,108,366                 | 165,235,168                 | 531,180,578                                       | 1,269,542,584                                                          | 2,221,160,611                        | 2,532,832,064                                       |
| 1926.....               | 116,638,254                     | 125,441,707                 | 168,888,995                 | 553,322,935                                       | 1,340,559,021                                                          | 2,277,192,043                        | 2,604,601,786                                       |
| 1927.....               | 121,666,774                     | 130,320,897                 | 172,100,763                 | 596,069,007                                       | 1,399,062,201                                                          | 2,415,132,260                        | 2,758,324,713                                       |
| 1928.....               | 122,839,879                     | 134,087,485                 | 176,716,979                 | 677,467,295                                       | 1,496,608,451                                                          | 2,610,594,865                        | 3,044,742,165                                       |
| 1929.....               | 137,269,085                     | 150,636,682                 | 178,291,030                 | 696,387,381                                       | 1,479,970,058                                                          | 2,696,747,857                        | 3,215,053,098                                       |
| 1930.....               | 144,560,874                     | 160,639,246                 | 159,341,085                 | 622,895,347                                       | 1,427,569,719                                                          | 2,516,611,587                        | 2,909,530,263                                       |
| 1931.....               | 144,674,853                     | 162,075,000                 | 141,969,350                 | 578,604,394                                       | 1,437,976,746                                                          | 2,422,834,828                        | 2,741,554,219                                       |
| 1932.....               | 144,500,000                     | 162,000,000                 | 132,165,942                 | 486,270,764                                       | 1,376,325,128                                                          | 2,256,639,530                        | 2,546,149,789                                       |
| 1933.....               | 144,500,000                     | 157,250,000                 | 130,362,488                 | 488,527,864                                       | 1,378,497,944                                                          | 2,236,841,539                        | 2,517,934,260                                       |
| 1934.....               | 144,916,667                     | 132,604,166                 | 135,537,793                 | 513,973,506                                       | 1,372,817,869                                                          | 2,274,607,936                        | 2,548,720,434                                       |

<sup>1</sup>Includes the deposits of Dominion and Provincial Governments and also since 1901 deposits elsewhere than in Canada.

<sup>2</sup>Includes other liabilities to the public.

<sup>3</sup>Six-month average.



# 10.—Historical Summary Showing Development of the Canadian Banking Business, calendar years, 1867-1934—concluded.

NOTE.—The statistics in this table are yearly averages computed from the twelve monthly returns.

## ASSETS.

| Calendar Year.    | Specie and Dominion Notes (including Deposits in Central Gold Reserves 1913-34). | Dominion and Provincial Government Securities. | Municipal Securities in Canada and Public Securities elsewhere than in Canada. | Total Loans.  | Total Assets. <sup>1</sup> | Percentage of Liabilities to the Public to Total Assets. <sup>1</sup> |
|-------------------|----------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------|---------------|----------------------------|-----------------------------------------------------------------------|
|                   | \$                                                                               | \$                                             | \$                                                                             | \$            | \$                         | p.c.                                                                  |
| 1867 <sup>2</sup> | -                                                                                | -                                              | -                                                                              | 53,889,703    | 78,294,670                 | 55-27                                                                 |
| 1868              | -                                                                                | -                                              | -                                                                              | 52,299,050    | 79,860,976                 | 56-53                                                                 |
| 1869              | -                                                                                | -                                              | -                                                                              | 56,433,953    | 86,283,693                 | 59-04                                                                 |
| 1870              | -                                                                                | -                                              | -                                                                              | 66,276,961    | 103,197,103                | 63-65                                                                 |
| 1871              | -                                                                                | -                                              | -                                                                              | 84,799,841    | 125,273,631                | 64-06                                                                 |
| 1872              | -                                                                                | -                                              | -                                                                              | 106,744,665   | 148,862,445                | 61-04                                                                 |
| 1873              | -                                                                                | -                                              | -                                                                              | 119,274,317   | 166,056,595                | 56-60                                                                 |
| 1874              | -                                                                                | -                                              | -                                                                              | 131,680,111   | 187,921,031                | 61-95                                                                 |
| 1875              | -                                                                                | -                                              | -                                                                              | 136,029,307   | 186,255,330                | 56-17                                                                 |
| 1876              | -                                                                                | -                                              | -                                                                              | 127,621,577   | 183,499,801                | 54-29                                                                 |
| 1877              | -                                                                                | -                                              | -                                                                              | 125,681,658   | 181,019,194                | 55-14                                                                 |
| 1878              | -                                                                                | -                                              | -                                                                              | 119,682,659   | 175,450,274                | 54-45                                                                 |
| 1879              | -                                                                                | -                                              | -                                                                              | 113,485,108   | 173,548,490                | 55-75                                                                 |
| 1880              | -                                                                                | -                                              | -                                                                              | 102,166,115   | 184,276,190                | 60-69                                                                 |
| 1881              | -                                                                                | -                                              | -                                                                              | 116,953,497   | 200,613,879                | 63-39                                                                 |
| 1882              | -                                                                                | -                                              | -                                                                              | 140,077,194   | 227,426,835                | 65-86                                                                 |
| 1883              | -                                                                                | -                                              | -                                                                              | 143,944,957   | 228,084,650                | 63-98                                                                 |
| 1884              | -                                                                                | -                                              | -                                                                              | 130,490,053   | 219,998,642                | 62-50                                                                 |
| 1885              | -                                                                                | -                                              | -                                                                              | 126,827,792   | 219,147,080                | 63-32                                                                 |
| 1886              | -                                                                                | -                                              | -                                                                              | 132,833,313   | 228,061,872                | 64-44                                                                 |
| 1887              | -                                                                                | -                                              | -                                                                              | 139,753,755   | 230,393,072                | 64-98                                                                 |
| 1888              | -                                                                                | -                                              | -                                                                              | 141,002,373   | 243,504,164                | 67-35                                                                 |
| 1889              | -                                                                                | -                                              | -                                                                              | 149,958,980   | 253,789,893                | 68-18                                                                 |
| 1890              | -                                                                                | -                                              | -                                                                              | 153,301,335   | 254,546,329                | 68-05                                                                 |
| 1891              | -                                                                                | -                                              | -                                                                              | 171,082,677   | 269,307,032                | 69-56                                                                 |
| 1892              | 17,794,201                                                                       | -                                              | -                                                                              | 193,455,883   | 281,635,251                | 71-34                                                                 |
| 1893              | 19,714,648                                                                       | -                                              | -                                                                              | 206,623,042   | 302,696,715                | 71-75                                                                 |
| 1894              | 22,371,954                                                                       | -                                              | -                                                                              | 204,124,339   | 307,520,020                | 71-87                                                                 |
| 1895              | 22,992,872                                                                       | -                                              | -                                                                              | 203,730,800   | 316,536,510                | 72-50                                                                 |
| 1896              | 22,318,627                                                                       | -                                              | -                                                                              | 213,211,996   | 320,937,643                | 72-39                                                                 |
| 1897              | 24,178,151                                                                       | -                                              | -                                                                              | 212,014,635   | 341,163,505                | 74-06                                                                 |
| 1898              | 25,330,564                                                                       | -                                              | -                                                                              | 223,806,320   | 370,583,991                | 75-86                                                                 |
| 1899              | 26,682,971                                                                       | -                                              | -                                                                              | 251,467,076   | 412,504,768                | 77-24                                                                 |
| 1900              | 29,047,382                                                                       | -                                              | -                                                                              | 279,279,761   | 459,715,065                | 77-52                                                                 |
| 1901              | 32,088,501                                                                       | 11,331,385                                     | 13,031,176                                                                     | 388,299,888   | 531,829,324                | 78-97                                                                 |
| 1902              | 35,478,598                                                                       | 9,804,998                                      | 14,487,632                                                                     | 430,662,670   | 585,761,109                | 79-72                                                                 |
| 1903              | 42,510,574                                                                       | 11,136,607                                     | 14,896,472                                                                     | 472,019,689   | 641,543,226                | 79-11                                                                 |
| 1904              | 50,307,871                                                                       | 10,705,202                                     | 15,560,145                                                                     | 509,011,993   | 695,417,756                | 79-67                                                                 |
| 1905              | 56,590,323                                                                       | 8,833,626                                      | 18,820,985                                                                     | 559,814,918   | 767,490,183                | 80-61                                                                 |
| 1906              | 61,287,581                                                                       | 9,360,614                                      | 20,460,670                                                                     | 655,869,879   | 878,512,076                | 81-25                                                                 |
| 1907              | 70,550,520                                                                       | 9,546,927                                      | 21,198,817                                                                     | 709,975,274   | 945,685,708                | 81-32                                                                 |
| 1908              | 80,654,276                                                                       | 9,522,743                                      | 19,788,937                                                                     | 670,170,833   | 941,290,619                | 80-96                                                                 |
| 1909              | 95,558,461                                                                       | 11,653,798                                     | 21,707,363                                                                     | 762,195,546   | 1,067,007,534              | 82-72                                                                 |
| 1910              | 104,735,626                                                                      | 14,741,621                                     | 21,696,987                                                                     | 870,100,890   | 1,211,452,351              | 84-13                                                                 |
| 1911              | 120,146,690                                                                      | 10,637,580                                     | 22,848,170                                                                     | 926,909,616   | 1,303,131,260              | 84-23                                                                 |
| 1912              | 132,853,405                                                                      | 9,388,968                                      | 22,586,119                                                                     | 1,061,843,991 | 1,470,065,478              | 84-36                                                                 |
| 1913              | 141,872,884                                                                      | 9,995,237                                      | 23,183,162                                                                     | 1,109,493,263 | 1,530,093,671              | 84-14                                                                 |
| 1914              | 165,845,957                                                                      | 11,697,603                                     | 22,707,738                                                                     | 1,101,880,924 | 1,555,676,395              | 84-20                                                                 |
| 1915              | 208,438,854                                                                      | 12,814,898                                     | 31,553,091                                                                     | 1,066,252,854 | 1,596,424,643              | 84-75                                                                 |
| 1916              | 230,113,831                                                                      | 29,717,007                                     | 117,902,686                                                                    | 1,135,866,531 | 1,839,286,709              | 86-82                                                                 |
| 1917              | 265,339,567                                                                      | 131,078,854                                    | 138,341,125                                                                    | 1,219,161,252 | 2,111,559,555              | 88-38                                                                 |
| 1918              | 351,762,841                                                                      | 162,821,026                                    | 252,936,568                                                                    | 1,339,660,669 | 2,432,331,418              | 89-81                                                                 |
| 1919              | 370,775,723                                                                      | 214,621,625                                    | 256,270,715                                                                    | 1,552,971,202 | 2,754,568,118              | 90-60                                                                 |
| 1920              | 357,165,054                                                                      | 120,356,255                                    | 210,826,991                                                                    | 1,935,449,637 | 3,064,133,843              | 90-86                                                                 |
| 1921              | 335,081,032                                                                      | 166,688,146                                    | 156,552,503                                                                    | 1,781,184,781 | 2,841,782,079              | 89-96                                                                 |
| 1922              | 305,522,425                                                                      | 198,826,031                                    | 90,131,491                                                                     | 1,643,643,443 | 2,638,776,483              | 89-62                                                                 |
| 1923              | 291,999,879                                                                      | 242,292,315                                    | 112,642,627                                                                    | 1,606,932,483 | 2,643,773,986              | 92-16                                                                 |
| 1924              | 266,961,330                                                                      | 314,099,097                                    | 135,597,860                                                                    | 1,546,792,080 | 2,741,427,011              | 90-28                                                                 |
| 1925              | 259,714,043                                                                      | 358,344,887                                    | 147,563,292                                                                    | 1,562,017,009 | 2,789,619,061              | 90-80                                                                 |
| 1926              | 252,754,268                                                                      | 343,595,935                                    | 127,765,375                                                                    | 1,682,379,658 | 2,864,019,213              | 90-94                                                                 |
| 1927              | 252,188,447                                                                      | 324,580,796                                    | 133,314,843                                                                    | 1,839,905,275 | 3,029,680,616              | 91-04                                                                 |
| 1928              | 264,804,251                                                                      | 335,837,004                                    | 124,996,823                                                                    | 2,072,403,628 | 3,323,163,195              | 91-62                                                                 |
| 1929              | 261,625,173                                                                      | 341,744,572                                    | 104,309,024                                                                    | 2,279,247,504 | 3,528,468,027              | 91-13                                                                 |
| 1930              | 232,016,616                                                                      | 316,196,343                                    | 101,585,131                                                                    | 2,064,597,746 | 3,237,073,853              | 89-88                                                                 |
| 1931              | 207,983,857                                                                      | 454,386,965                                    | 154,829,056                                                                    | 1,764,088,477 | 3,066,018,472              | 89-42                                                                 |
| 1932              | 206,925,103                                                                      | 489,709,241                                    | 150,891,599                                                                    | 1,589,667,313 | 2,869,429,779              | 88-73                                                                 |
| 1933              | 209,550,285                                                                      | 626,881,709                                    | 163,834,318                                                                    | 1,490,067,110 | 2,831,393,641              | 88-93                                                                 |
| 1934              | 214,419,280                                                                      | 683,498,403                                    | 139,850,099                                                                    | 1,373,683,071 | 2,837,919,961              | 89-81                                                                 |

<sup>1</sup> Includes other assets. <sup>2</sup> Six-month average.

**Bank Assets and Liabilities.**—Tables 11 and 12 show in detail the assets and liabilities of Canadian chartered banks for the four years 1931 to 1934, the figures being yearly averages of the totals shown in the monthly statements made to the Minister of Finance.

**11.—Assets of Chartered Banks in the calendar years 1931-34.**

NOTE.—The statistics in this table are averages computed from the twelve monthly returns in each year.

| Assets.                                                                                                     | 1931.                | 1932.                | 1933.                | 1934.                |
|-------------------------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|
|                                                                                                             | \$                   | \$                   | \$                   | \$                   |
| <b>Quick Assets—</b>                                                                                        |                      |                      |                      |                      |
| Current gold and subsidiary coin.....                                                                       | 70,616,401           | 58,581,872           | 52,900,491           | 49,523,287           |
| Dominion notes.....                                                                                         | 111,324,018          | 126,373,999          | 137,343,062          | 145,797,586          |
| Deposit in Central Gold Reserves <sup>1</sup> .....                                                         | 26,043,438           | 21,969,232           | 19,306,732           | 19,098,407           |
| Notes of other banks.....                                                                                   | 13,088,109           | 11,247,365           | 9,737,827            | 10,418,411           |
| United States and other foreign currencies..                                                                | 16,264,313           | 16,022,766           | 21,584,743           | 20,377,395           |
| Cheques of other banks.....                                                                                 | 101,543,160          | 82,948,867           | 84,112,614           | 93,681,134           |
| Deposits made with and balances due from other banks in Canada.....                                         | 4,274,869            | 3,461,775            | 3,818,530            | 3,906,981            |
| Due from banks and banking correspondents in the United Kingdom.....                                        | 4,503,753            | 9,383,994            | 15,656,660           | 21,339,301           |
| Due from banks and banking correspondents elsewhere than in Canada and the United Kingdom.....              | 97,749,022           | 97,999,358           | 75,809,462           | 67,516,010           |
| <b>Totals, Quick Assets.....</b>                                                                            | <b>445,407,083</b>   | <b>427,959,228</b>   | <b>420,270,121</b>   | <b>431,658,512</b>   |
| <b>Other Liquid Assets—</b>                                                                                 |                      |                      |                      |                      |
| Dominion Government and Provincial Government securities.....                                               | 454,386,965          | 489,709,241          | 626,881,709          | 683,498,403          |
| Canadian municipal securities, and British, foreign and colonial public securities other than Canadian..... | 154,829,056          | 150,891,599          | 163,834,318          | 139,850,099          |
| Railway and other bonds, debentures and stocks.....                                                         | 65,141,210           | 55,157,961           | 50,435,931           | 43,377,456           |
| Call and short (not exceeding thirty days) loans in Canada on stocks, debentures and bonds.....             | 170,185,313          | 117,224,745          | 102,360,658          | 101,592,436          |
| Call and short (not exceeding thirty days) loans elsewhere than in Canada.....                              | 108,574,302          | 84,227,574           | 92,234,373           | 106,698,437          |
| <b>Totals, Other Liquid Assets.....</b>                                                                     | <b>953,116,846</b>   | <b>897,211,120</b>   | <b>1,035,746,989</b> | <b>1,075,016,831</b> |
| <b>Other Assets—</b>                                                                                        |                      |                      |                      |                      |
| Other current loans and discounts in Canada.....                                                            | 1,123,600,856        | 1,032,081,481        | 906,477,585          | 868,940,687          |
| Other current loans and discounts elsewhere than in Canada.....                                             | 205,382,064          | 171,861,621          | 147,599,021          | 137,640,771          |
| Loans to the Government of Canada.....                                                                      | —                    | —                    | —                    | —                    |
| Loans to Provincial Governments.....                                                                        | 29,072,924           | 34,386,119           | 24,650,205           | 26,321,552           |
| Loans to cities, towns, municipalities and school districts.....                                            | 117,970,493          | 130,567,792          | 121,781,170          | 118,549,484          |
| Overdue debts.....                                                                                          | 9,302,525            | 12,317,980           | 13,964,098           | 13,939,704           |
| Real estate, other than bank premises.....                                                                  | 6,244,727            | 7,141,708            | 7,734,125            | 7,810,619            |
| Mortgages on real estate sold by the banks.....                                                             | 6,488,987            | 6,244,908            | 6,310,749            | 5,912,288            |
| Bank premises at not more than cost, less amounts (if any) written off.....                                 | 79,112,291           | 79,714,603           | 78,840,626           | 78,132,351           |
| Liabilities of customers under letters of credit <i>as per contra</i> .....                                 | 67,896,512           | 48,671,585           | 46,612,850           | 52,355,627           |
| Deposits with Minister of Finance for security of note circulation.....                                     | 6,825,601            | 6,721,355            | 6,587,189            | 6,618,517            |
| Other assets not included under the foregoing heads.....                                                    | 15,597,563           | 14,520,279           | 14,818,913           | 14,994,018           |
| <b>Totals, Other Assets.....</b>                                                                            | <b>1,667,494,543</b> | <b>1,544,229,431</b> | <b>1,375,376,531</b> | <b>1,331,244,618</b> |
| <b>Grand Totals, Assets.....</b>                                                                            | <b>3,066,018,472</b> | <b>2,869,429,779</b> | <b>2,831,393,641</b> | <b>2,837,919,961</b> |

<sup>1</sup>To the extent that bank notes are issued against deposits in Central Gold Reserves, this should be regarded as allocated against a corresponding amount of note issue liability.

12.—Liabilities of Chartered Banks in the calendar years 1931-34.

NOTE.—The statistics in this table are averages computed from the twelve monthly returns in each year.

| Liabilities.                                                                                  | 1931.                | 1932.                | 1933.                | 1934.                |
|-----------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|
|                                                                                               | \$                   | \$                   | \$                   | \$                   |
| <b>Liabilities to the Public—</b>                                                             |                      |                      |                      |                      |
| Notes in circulation.....                                                                     | 141,969,350          | 132,165,942          | 130,362,488          | 135,537,793          |
| Balances due to Dominion Government after deducting advances for credits, pay lists, etc..... | 48,978,777           | 55,598,660           | 38,766,203           | 35,059,418           |
| Advances under the Finance Act.....                                                           | 19,416,666           | 37,352,067           | 46,472,666           | 39,319,250           |
| Balances due to Provincial Governments....                                                    | 24,372,336           | 26,151,681           | 23,229,169           | 30,773,142           |
| Deposits by the public payable on demand in Canada.....                                       | 578,604,394          | 486,270,764          | 488,527,864          | 513,973,506          |
| Deposits by the public payable after notice or on a fixed day in Canada.....                  | 1,437,976,749        | 1,376,325,128        | 1,378,497,944        | 1,372,817,869        |
| Deposits elsewhere than in Canada.....                                                        | 332,902,489          | 312,293,297          | 307,820,359          | 321,984,001          |
| Deposits made by and balances due to other banks in Canada.....                               | 12,596,946           | 10,694,683           | 11,603,922           | 12,824,498           |
| Due to banks and banking correspondents in the United Kingdom.....                            | 5,301,868            | 5,131,001            | 5,468,789            | 5,651,794            |
| Due to banks and banking correspondents elsewhere than in Canada and the United Kingdom.....  | 62,055,917           | 49,732,341           | 35,803,916           | 23,960,959           |
| Bills payable.....                                                                            | 4,489,370            | 1,579,945            | 1,057,647            | 918,231              |
| Acceptances under letters of credit.....                                                      | 67,896,762           | 48,671,585           | 46,612,849           | 52,355,627           |
| Liabilities not included under foregoing heads.....                                           | 4,992,595            | 4,182,095            | 3,710,444            | 3,544,346            |
| <b>Totals, Liabilities to the Public.....</b>                                                 | <b>2,741,554,219</b> | <b>2,546,149,789</b> | <b>2,517,934,260</b> | <b>2,548,720,434</b> |
| <b>Liabilities to Shareholders—</b>                                                           |                      |                      |                      |                      |
| Capital paid up.....                                                                          | 144,674,853          | 144,500,000          | 144,500,000          | 144,916,667          |
| Amounts of rest or reserve funds.....                                                         | 162,075,000          | 162,000,000          | 157,250,000          | 132,604,166          |
| <b>Totals, Liabilities to Shareholders.....</b>                                               | <b>306,749,853</b>   | <b>306,500,000</b>   | <b>301,750,000</b>   | <b>277,520,833</b>   |
| <b>Grand Totals, Liabilities.....</b>                                                         | <b>3,048,304,073</b> | <b>2,852,649,789</b> | <b>2,819,684,260</b> | <b>2,826,241,267</b> |

**Deposits, Loans and Discounts.**—As an index of the course of banking business, of the nature of many transactions undertaken and of the general security of bank assets, loans and discounts are of great value. They illustrate clearly the channels into which a large proportion of the potential earning power of the banks is directed, and, by providing a comparison between investments made in lending operations inside and outside of Canada, afford essential information regarding the conduct by a bank of one of its most important activities.

Bank deposits (the demand deposits being to a large extent the product of lending operations, by which credit is advanced on security followed by the deposit of the proceeds of a loan) are also of considerable importance, and, on account of their derivation, are one of the most valuable records of the volume of business done at any time.

Tables 13 and 14, following, give the deposits and loans of Canadian chartered banks for the years 1930 to 1934.

### 13.—Deposits in Chartered Banks in Canada and Elsewhere, for the calendar years 1930-34.

NOTE.—The statistics in this table are averages computed from the twelve monthly returns in each year.

| Item.                                                    | 1930.                | 1931.                | 1932.                | 1933.                | 1934.                |
|----------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                                          | \$                   | \$                   | \$                   | \$                   | \$                   |
| Deposits by the public in Canada—                        |                      |                      |                      |                      |                      |
| Payable on demand.....                                   | 622,895,347          | 578,604,394          | 486,270,764          | 488,527,864          | 513,973,506          |
| Payable after notice or on a fixed day.....              | 1,427,569,716        | 1,437,976,749        | 1,376,325,128        | 1,378,497,944        | 1,372,817,869        |
| Deposits elsewhere than in Canada.....                   | 390,403,559          | 332,902,489          | 312,293,297          | 307,820,359          | 321,984,001          |
| Balances due to Dominion and Provincial Governments..... | 75,742,965           | 73,351,113           | 81,750,341           | 61,995,372           | 65,832,560           |
| <b>Totals, Deposits.....</b>                             | <b>2,516,611,587</b> | <b>2,422,834,828</b> | <b>2,256,639,530</b> | <b>2,236,841,539</b> | <b>2,274,607,936</b> |

As a result of an amendment to the Bank Act in 1934 deposits and loans are required to be classified according to size of the deposit, or purpose of the loan, each year. The following is the classification of deposits payable on demand in Canada and payable after notice in Canada as at Oct. 31, 1934:—

#### CLASSIFICATION OF DEPOSITS.

|                                                                                                                          | Number.          | Amount.              |
|--------------------------------------------------------------------------------------------------------------------------|------------------|----------------------|
| Deposits Payable on Demand—                                                                                              |                  | \$                   |
| (1) Deposits of \$1,000 or less.....                                                                                     | 580,929          | 71,760,883           |
| (2) Deposits over \$1,000 to \$5,000.....                                                                                | 35,259           | 72,266,442           |
| (3) Deposits over \$5,000 to \$25,000.....                                                                               | 8,633            | 88,673,885           |
| (4) Deposits over \$25,000 to \$100,000.....                                                                             | 1,877            | 87,501,586           |
| (5) Deposits in excess of \$100,000.....                                                                                 | 599              | 218,350,690          |
| (6) Adjustment representing drafts issued, certified cheques, items in transit, etc.....                                 | —                | 3,890,269            |
| <b>Totals.....</b>                                                                                                       | <b>627,297</b>   | <b>542,443,755</b>   |
| Deposits Payable After Notice—                                                                                           |                  |                      |
| (1) Deposits of \$1,000 or less.....                                                                                     | 3,765,971        | 416,528,692          |
| (2) Deposits over \$1,000 to \$5,000.....                                                                                | 246,057          | 485,695,559          |
| (3) Deposits over \$5,000 to \$25,000.....                                                                               | 28,896           | 249,589,678          |
| (4) Deposits over \$25,000 to \$100,000.....                                                                             | 1,853            | 82,550,359           |
| (5) Deposits in excess of \$100,000.....                                                                                 | 390              | 131,626,199          |
| (6) Adjustment representing certified cheques, interest accrued on interest-bearing accounts, items in transit, etc..... | —                | 4,188,088            |
| <b>Totals.....</b>                                                                                                       | <b>4,043,167</b> | <b>1,370,178,575</b> |

### 14.—Loans of Chartered Banks in Canada and Elsewhere, for the calendar years 1930-34.

NOTE.—The statistics in this table are averages computed from the twelve monthly returns in each year.

| Item.                                                   | 1930.                | 1931.                | 1932.                | 1933.                | 1934.                |
|---------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                                         | \$                   | \$                   | \$                   | \$                   | \$                   |
| Call and short loans on stocks and bonds in Canada..... | 226,725,099          | 170,185,313          | 117,224,745          | 102,360,658          | 101,592,436          |
| Call and short loans elsewhere than in Canada.....      | 187,706,019          | 108,574,302          | 84,227,574           | 92,234,373           | 106,698,437          |
| Current loans in Canada.....                            | 1,386,070,540        | 1,241,571,349        | 1,162,649,273        | 1,028,258,755        | 987,490,171          |
| Current loans elsewhere than in Canada.....             | 238,954,152          | 205,382,064          | 171,861,621          | 147,599,021          | 137,640,771          |
| Loans to governments.....                               | 17,491,292           | 29,072,924           | 34,386,120           | 24,650,205           | 26,321,552           |
| Overdue debts.....                                      | 7,650,644            | 9,302,525            | 12,317,980           | 13,964,098           | 13,939,704           |
| <b>Totals, Loans.....</b>                               | <b>2,064,597,746</b> | <b>1,764,088,477</b> | <b>1,582,667,313</b> | <b>1,409,067,110</b> | <b>1,373,683,071</b> |

<sup>1</sup>Includes loans to cities, towns, municipalities and school districts.



The following classification of bank loans in Canada as at Oct. 31, 1934, has been made as a result of an amendment to the Bank Act in 1934:—

| CLASSIFICATION OF LOANS.                                                                                    |             | \$ | \$                            |
|-------------------------------------------------------------------------------------------------------------|-------------|----|-------------------------------|
| 1. Provincial Governments.....                                                                              |             |    | 26,822,179                    |
| 2. Municipal governments and school districts.....                                                          |             |    | 107,414,483                   |
| 3. Agriculture—                                                                                             |             |    |                               |
| (a) Farmers' loans, cattle loans, fruit growers.....                                                        | 64,229,744  |    |                               |
| (b) Loans to grain dealers, grain exporters and seed merchants.....                                         | 150,515,305 |    |                               |
|                                                                                                             |             |    | <u>214,745,049</u>            |
| 4. Financial—                                                                                               |             |    |                               |
| (a) Call loans and other accommodation to brokers and bond dealers.....                                     | 90,748,241  |    |                               |
| (b) Loans to trust, loan, mortgage, investment and insurance companies and other financial institutions.... | 69,956,745  |    |                               |
| (c) Loans to individuals against approved stocks and bonds not otherwise classified.....                    | 115,192,444 |    |                               |
|                                                                                                             |             |    | <u>275,897,431</u>            |
| 5. Merchandising, wholesale and retail.....                                                                 |             |    | 117,468,420                   |
| 6. Manufacturers of and dealers in lumber, pulpwood, and products thereof..                                 |             |    | 74,283,150                    |
| 7. Other manufacturing of all descriptions.....                                                             |             |    | 140,125,188                   |
| 8. Mining.....                                                                                              |             |    | 6,621,121                     |
| 9. Fishing, including loans to packers and curers of fish.....                                              |             |    | 6,965,205                     |
| 10. Public utilities, including transportation companies.....                                               |             |    | 71,358,370                    |
| 11. Loans to building contractors and others for building purposes.....                                     |             |    | 21,792,645                    |
| 12. Loans to churches, parishes, hospitals, charitable and religious institutions.....                      |             |    | 19,683,072                    |
| 13. Other loans.....                                                                                        |             |    | 66,532,517                    |
| Total.....                                                                                                  |             |    | <u><u>\$1,149,708,830</u></u> |

**Bank Reserves.**—An important change has been made in the regulations governing bank reserves since the Bank of Canada commenced operations. The chartered banks are now required to carry deposits with or notes of the Bank of Canada together constituting a reserve amounting to 5 p.c. of their deposit liabilities in Canada in addition to maintaining adequate reserves against their external liabilities. Formerly, however, it was required that 40 p.c. of whatever cash reserves a bank found it expedient to carry should be in Dominion notes. A second provision instructed the Minister of Finance to arrange for the delivery of Dominion notes to any bank in exchange for specie. Thus the gold reserve against Dominion notes, to the extent that the notes were held by the banks, was reserve against banking operations, the Dominion Government being the custodian of the gold for the banks. The other cash element in bank reserves is specie in hand. In addition to this cash on hand, Canadian banks carry three other kinds of assets which are regarded as reserves, being funds more or less immediately available for the liquidation of liabilities. These are: (1) cash balances in banks outside of Canada; (2) call and short loans in New York (the favorite call loan market); and (3) readily marketable securities. These are shown, together with net liabilities, in Table 15. In Table 16, the ratio to net liabilities of each element of the reserves is shown.

## 15.—Bank Reserves in Detail and Total

NOTE.—The statistics in this table are averages computed from the twelve monthly

| Calendar Year. | Specie,<br>Dominion<br>Notes and<br>Foreign<br>Currencies. <sup>1</sup> | Cash Due from—                        |                                                                       |                       | Call and<br>Short Loans<br>elsewhere<br>than in<br>Canada. |
|----------------|-------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------|-----------------------|------------------------------------------------------------|
|                |                                                                         | Banks<br>in the<br>United<br>Kingdom. | Banks<br>elsewhere<br>than in<br>Canada and<br>the United<br>Kingdom. | All Outside<br>Banks. |                                                            |
|                | £                                                                       | £                                     | \$                                                                    | \$                    | \$                                                         |
| 1901.....      | 32,088,501                                                              | 5,598,939                             | 12,811,524                                                            | 18,410,463            | 40,620,238                                                 |
| 1902.....      | 35,478,598                                                              | 6,598,159                             | 13,519,799                                                            | 20,117,958            | 46,162,659                                                 |
| 1903.....      | 42,510,574                                                              | 5,638,954                             | 14,192,232                                                            | 19,831,186            | 38,025,662                                                 |
| 1904.....      | 50,307,871                                                              | 7,523,615                             | 16,817,357                                                            | 24,340,972            | 41,212,007                                                 |
| 1905.....      | 56,590,323                                                              | 9,960,560                             | 19,201,939                                                            | 29,162,499            | 51,452,955                                                 |
| 1906.....      | 61,287,581                                                              | 8,877,979                             | 16,801,119                                                            | 25,679,098            | 59,363,639                                                 |
| 1907.....      | 70,550,520                                                              | 6,027,157                             | 15,363,728                                                            | 21,390,885            | 52,907,513                                                 |
| 1908.....      | 80,654,276                                                              | 9,828,186                             | 30,822,761                                                            | 40,650,947            | 60,764,075                                                 |
| 1909.....      | 95,558,461                                                              | 10,311,864                            | 31,779,144                                                            | 42,091,008            | 119,728,263                                                |
| 1910.....      | 104,735,696                                                             | 18,892,833                            | 28,301,602                                                            | 47,194,435            | 112,777,630                                                |
| 1911.....      | 120,146,690                                                             | 21,122,092                            | 29,695,985                                                            | 50,818,077            | 91,097,704                                                 |
| 1912.....      | 132,853,405                                                             | 21,338,926                            | 28,894,103                                                            | 50,233,029            | 105,718,070                                                |
| 1913.....      | 135,267,623                                                             | 13,329,642                            | 28,238,329                                                            | 41,567,971            | 98,608,615                                                 |
| 1914.....      | 159,775,124                                                             | 12,230,533                            | 36,932,958                                                            | 49,163,491            | 112,438,696                                                |
| 1915.....      | 200,113,021                                                             | 20,824,559                            | 43,781,939                                                            | 64,606,498            | 118,896,692                                                |
| 1916.....      | 207,797,164                                                             | 24,025,192                            | 72,923,228                                                            | 96,948,420            | 164,786,760                                                |
| 1917.....      | 210,475,400                                                             | 17,885,648                            | 53,021,952                                                            | 70,907,600            | 157,430,643                                                |
| 1918.....      | 256,656,174                                                             | 10,973,606                            | 47,419,961                                                            | 58,393,567            | 162,233,308                                                |
| 1919.....      | 257,429,889                                                             | 12,359,426                            | 50,904,693                                                            | 63,264,119            | 163,227,204                                                |
| 1920.....      | 259,462,332                                                             | 17,669,923                            | 62,100,182                                                            | 79,770,105            | 200,098,050                                                |
| 1921.....      | 255,474,332                                                             | 12,857,830                            | 60,885,266                                                            | 73,743,096            | 172,137,325                                                |
| 1922.....      | 251,169,892                                                             | 10,309,844                            | 87,972,048                                                            | 98,281,892            | 178,457,564                                                |
| 1923.....      | 234,501,513                                                             | 8,090,470                             | 54,358,289                                                            | 62,448,759            | 198,047,516                                                |
| 1924.....      | 235,743,196                                                             | 7,819,605                             | 66,701,920                                                            | 74,521,525            | 181,705,220                                                |
| 1925.....      | 230,011,447                                                             | 8,583,316                             | 59,921,935                                                            | 68,505,251            | 225,461,687                                                |
| 1926.....      | 214,182,302                                                             | 11,520,189                            | 59,261,609                                                            | 70,781,798            | 250,080,998                                                |
| 1927.....      | 210,433,492                                                             | 9,790,411                             | 61,793,595                                                            | 71,584,006            | 268,536,339                                                |
| 1928.....      | 216,287,938                                                             | 6,874,338                             | 67,531,596                                                            | 74,405,934            | 267,352,621                                                |
| 1929.....      | 221,479,645                                                             | 4,826,444                             | 86,178,585                                                            | 91,005,029            | 301,091,053                                                |
| 1930.....      | 210,660,988                                                             | 6,835,485                             | 94,240,243                                                            | 101,075,733           | 187,706,019                                                |
| 1931.....      | 198,204,732                                                             | 4,503,753                             | 97,749,022                                                            | 102,252,775           | 108,574,302                                                |
| 1932.....      | 200,978,637                                                             | 9,383,994                             | 97,999,358                                                            | 107,383,352           | 84,227,574                                                 |
| 1933.....      | 211,828,296                                                             | 15,656,660                            | 75,809,462                                                            | 91,466,122            | 92,234,373                                                 |
| 1934.....      | 215,698,268                                                             | 21,339,301                            | 67,516,010                                                            | 88,855,311            | 106,698,437                                                |

<sup>1</sup>Does not include "Deposits with the Minister of Finance for security of the note circulation" of insolvent banks, nor "Deposits in the Central Gold Reserves", instituted in 1913 as a reserve against additional bank-note circulation. The average amounts of these deposits during each of the latest four years are shown in Table 11.

## Net Liabilities, calendar years 1901-34.

returns in each year. Figures for 1892-1900 were given on pp. 872-873 of the 1927-28 Year Book.

| Securities.                                                |                                                                                        |                                   |             | Total<br>Reserves. <sup>1</sup> | Total<br>Net<br>Liabilities. <sup>2</sup> | Calendar<br>Year. |
|------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------|-------------|---------------------------------|-------------------------------------------|-------------------|
| Dominion<br>and<br>Provincial<br>Government<br>Securities. | Canadian<br>Municipal,<br>British,<br>Foreign and<br>Colonial<br>Public<br>Securities. | Railway<br>and<br>other<br>Bonds. | Total.      |                                 |                                           |                   |
| \$                                                         | \$                                                                                     | \$                                | \$          | \$                              | \$                                        |                   |
| 11,331,385                                                 | 13,031,176                                                                             | 30,440,258                        | 54,802,819  | 145,322,021                     | 405,915,468                               | 1901              |
| 9,804,998                                                  | 14,487,633                                                                             | 34,859,390                        | 59,152,021  | 160,911,236                     | 451,052,607                               | 1902              |
| 11,186,607                                                 | 14,896,472                                                                             | 37,800,593                        | 63,883,972  | 164,251,394                     | 489,439,303                               | 1903              |
| 10,705,202                                                 | 15,560,146                                                                             | 38,779,477                        | 65,044,825  | 180,905,675                     | 534,147,781                               | 1904              |
| 8,833,627                                                  | 18,820,985                                                                             | 39,974,520                        | 67,629,132  | 204,834,909                     | 595,027,264                               | 1905              |
| 9,360,614                                                  | 20,460,625                                                                             | 41,125,898                        | 70,947,137  | 217,277,455                     | 684,185,650                               | 1906              |
| 9,546,760                                                  | 21,198,817                                                                             | 41,239,559                        | 71,985,166  | 216,834,084                     | 737,505,039                               | 1907              |
| 9,522,743                                                  | 19,788,937                                                                             | 42,651,006                        | 71,962,686  | 254,031,984                     | 726,443,676                               | 1908              |
| 11,653,793                                                 | 21,707,363                                                                             | 50,783,614                        | 84,144,775  | 341,522,507                     | 844,098,072                               | 1909              |
| 14,741,621                                                 | 21,696,987                                                                             | 56,194,734                        | 92,633,242  | 357,341,003                     | 974,731,187                               | 1910              |
| 10,637,580                                                 | 22,848,170                                                                             | 60,909,240                        | 94,394,990  | 356,457,461                     | 1,044,712,367                             | 1911              |
| 9,388,968                                                  | 22,586,119                                                                             | 64,080,763                        | 96,055,850  | 384,860,354                     | 1,178,577,787                             | 1912              |
| 9,995,237                                                  | 23,183,161                                                                             | 70,713,075                        | 108,891,473 | 379,329,682                     | 1,222,752,292                             | 1913              |
| 11,697,603                                                 | 22,707,738                                                                             | 68,636,267                        | 103,041,608 | 424,418,919                     | 1,251,372,615                             | 1914              |
| 12,814,898                                                 | 31,553,091                                                                             | 74,020,538                        | 118,388,527 | 502,004,738                     | 1,298,018,989                             | 1915              |
| 29,717,007                                                 | 117,902,686                                                                            | 68,386,482                        | 216,006,175 | 685,538,519                     | 1,520,438,686                             | 1916              |
| 131,078,854                                                | 183,341,125                                                                            | 58,653,908                        | 373,378,887 | 812,192,530                     | 1,771,264,882                             | 1917              |
| 162,821,026                                                | 252,936,568                                                                            | 56,103,418                        | 471,861,012 | 949,144,061                     | 2,071,307,749                             | 1918              |
| 214,621,625                                                | 256,270,715                                                                            | 54,420,301                        | 525,321,641 | 1,009,242,583                   | 2,363,044,215                             | 1919              |
| 120,356,255                                                | 210,820,991                                                                            | 48,031,223                        | 379,214,474 | 918,544,961                     | 2,608,151,194                             | 1920              |
| 166,688,146                                                | 156,552,503                                                                            | 45,728,878                        | 368,969,527 | 870,324,280                     | 2,393,459,361                             | 1921              |
| 198,826,031                                                | 90,131,491                                                                             | 43,208,758                        | 332,166,280 | 860,073,353                     | 2,219,372,799                             | 1922              |
| 242,292,315                                                | 112,642,627                                                                            | 46,857,264                        | 401,792,206 | 896,789,994                     | 2,222,479,569                             | 1923              |
| 314,099,097                                                | 135,597,860                                                                            | 52,864,890                        | 502,561,847 | 994,531,788                     | 2,314,701,740                             | 1924              |
| 358,344,887                                                | 147,563,292                                                                            | 59,597,468                        | 565,505,647 | 1,089,484,032                   | 2,396,104,380                             | 1925              |
| 343,595,936                                                | 127,765,375                                                                            | 61,455,745                        | 532,817,056 | 1,067,862,154                   | 2,481,678,160                             | 1926              |
| 324,580,796                                                | 133,314,843                                                                            | 63,075,762                        | 520,971,402 | 1,071,525,239                   | 2,616,056,053                             | 1927              |
| 333,637,004                                                | 124,996,823                                                                            | 62,794,381                        | 522,628,208 | 1,080,674,701                   | 2,880,242,999                             | 1928              |
| 341,744,572                                                | 104,309,024                                                                            | 52,961,542                        | 499,015,138 | 1,112,590,865                   | 3,062,844,009                             | 1929              |
| 316,196,343                                                | 101,585,131                                                                            | 53,856,068                        | 471,637,542 | 971,080,282                     | 2,766,706,452                             | 1930              |
| 454,386,965                                                | 154,829,056                                                                            | 65,141,210                        | 674,357,232 | 1,083,389,041                   | 2,626,922,950                             | 1931              |
| 489,709,241                                                | 150,891,599                                                                            | 55,157,961                        | 695,758,801 | 1,088,348,364                   | 2,451,953,557                             | 1932              |
| 626,881,709                                                | 163,834,318                                                                            | 50,435,931                        | 841,151,958 | 1,236,680,749                   | 2,424,083,819                             | 1933              |
| 683,498,403                                                | 139,850,099                                                                            | 43,377,456                        | 866,725,958 | 1,277,977,974                   | 2,444,620,889                             | 1934              |

<sup>2</sup>Net liabilities are obtained by deducting from total liabilities to the public, as shown in Table 10, the items "Notes of other banks", "Cheques on other banks", and "Loans to other banks in Canada, secured, including bills rediscounted", which represent indebtedness within the system and are counter-balanced by credits within the system.

16.—Ratios of Bank Reserves to Net Liabilities,<sup>1</sup> calendar years 1901-34.

NOTE.—The statistics in this table are based upon the averages given in the preceding table of the twelve monthly returns in each year. Figures for 1892-1900 will be found at p. 874 of the 1927-28 Year Book.

| Calendar Year. | Cash on hand. | Cash due from Banks outside of Canada. | Call and Short Loans elsewhere than in Canada. | Securities. | Percentage of Total Reserves to Net Liabilities. |
|----------------|---------------|----------------------------------------|------------------------------------------------|-------------|--------------------------------------------------|
|                | p.c.          | p.c.                                   | p.c.                                           | p.c.        | p.c.                                             |
| 1901.....      | 8.0           | 4.5                                    | 10.0                                           | 13.5        | 36.0                                             |
| 1902.....      | 7.9           | 4.4                                    | 10.2                                           | 13.1        | 35.6                                             |
| 1903.....      | 8.9           | 4.0                                    | 7.7                                            | 13.0        | 33.6                                             |
| 1904.....      | 9.4           | 4.5                                    | 7.7                                            | 12.1        | 33.7                                             |
| 1905.....      | 9.5           | 4.9                                    | 8.6                                            | 11.3        | 34.3                                             |
| 1906.....      | 8.9           | 3.7                                    | 8.7                                            | 10.4        | 31.7                                             |
| 1907.....      | 9.5           | 2.9                                    | 7.2                                            | 9.7         | 29.3                                             |
| 1908.....      | 11.1          | 5.5                                    | 8.3                                            | 9.9         | 34.8                                             |
| 1909.....      | 11.3          | 5.0                                    | 14.2                                           | 9.9         | 40.4                                             |
| 1910.....      | 10.7          | 4.8                                    | 11.5                                           | 9.5         | 36.5                                             |
| 1911.....      | 11.5          | 4.8                                    | 8.7                                            | 9.0         | 34.0                                             |
| 1912.....      | 11.3          | 4.3                                    | 8.9                                            | 8.1         | 32.5                                             |
| 1913.....      | 11.1          | 3.4                                    | 8.1                                            | 8.5         | 31.1                                             |
| 1914.....      | 12.8          | 3.9                                    | 9.0                                            | 8.2         | 33.9                                             |
| 1915.....      | 15.4          | 5.0                                    | 9.2                                            | 9.1         | 38.7                                             |
| 1916.....      | 13.7          | 6.4                                    | 10.8                                           | 14.2        | 45.1                                             |
| 1917.....      | 11.9          | 4.0                                    | 8.9                                            | 21.1        | 45.9                                             |
| 1918.....      | 12.4          | 2.8                                    | 7.8                                            | 22.8        | 45.8                                             |
| 1919.....      | 10.9          | 2.7                                    | 6.9                                            | 22.2        | 42.7                                             |
| 1920.....      | 9.9           | 3.1                                    | 7.7                                            | 14.5        | 35.2                                             |
| 1921.....      | 10.7          | 3.1                                    | 7.2                                            | 15.4        | 36.4                                             |
| 1922.....      | 11.3          | 4.4                                    | 8.0                                            | 15.0        | 38.7                                             |
| 1923.....      | 10.6          | 2.8                                    | 8.9                                            | 18.1        | 40.4                                             |
| 1924.....      | 10.2          | 3.2                                    | 7.9                                            | 21.7        | 43.0                                             |
| 1925.....      | 9.6           | 2.9                                    | 9.4                                            | 23.6        | 45.5                                             |
| 1926.....      | 8.6           | 2.8                                    | 10.1                                           | 21.5        | 43.0                                             |
| 1927.....      | 8.0           | 2.7                                    | 10.3                                           | 19.9        | 40.9                                             |
| 1928.....      | 7.5           | 2.6                                    | 9.3                                            | 18.1        | 37.5                                             |
| 1929.....      | 7.2           | 2.9                                    | 9.8                                            | 16.3        | 36.3                                             |
| 1930.....      | 7.6           | 3.7                                    | 6.8                                            | 17.0        | 35.1                                             |
| 1931.....      | 7.5           | 3.9                                    | 4.1                                            | 25.7        | 41.2                                             |
| 1932.....      | 8.2           | 4.4                                    | 3.4                                            | 28.4        | 44.4                                             |
| 1933.....      | 8.7           | 3.8                                    | 3.8                                            | 34.7        | 51.0                                             |
| 1934.....      | 8.8           | 3.6                                    | 4.4                                            | 35.4        | 52.3                                             |

See Table 15 for actual amounts of reserves and net liabilities.

## Subsection 2.—The Individual Chartered Banks of Canada.\*

During the period from 1881 to 1901, the number of chartered banks doing business in Canada under the Bank Act remained almost the same, 36 in 1881 and 1891, and 34 in 1901, but during the present century there has been in banking, as in industry, an era of amalgamations, the number of banks having dropped to 25 in 1913 and to 10 in 1931. That this has been far from involving a curtailment of banking facilities is seen in Table 10, which shows the development of the banking business since 1867, and in Table 17, which compares the number of branch banks existing in Canada at different periods, and shows a growth from 123 at Confederation to 4,083 inclusive of sub-agencies at Dec. 31, 1930. Since then, owing to the shrinkage in commercial activities as a result of the depression, some unprofitable branches have been closed and the total has declined to 3,527, exclusive of 150 branches and agencies in other countries, as at Dec. 31, 1934.

\* Revised by A. W. Rogers, Secretary, The Canadian Bankers' Association.



Tables 18 and 18A give the numbers of branches of the various banks, by provinces, as at Dec. 31, 1933 and 1934, while Table 19 contains the statistics of branches of Canadian banks doing business outside of Canada, an extension of Canadian banking (more especially to Newfoundland and the West Indies) which proceeded very rapidly in the war and early post-war period, rising to a total of 206 in 1921. Since then this number has gradually declined to 150 branches and sub-agencies in 1934.

**17.—Numbers of Branches of Chartered Banks in Canada, by Provinces, Dec. 31, 1868, 1902, 1905, 1920, 1926, 1930, 1931, 1932, 1933, 1934.**

| Province.             | 1868.      | 1902.      | 1905.        | 1920. <sup>1</sup> | 1926. <sup>1</sup> | 1930. <sup>1</sup> | 1931. <sup>1</sup> | 1932. <sup>1</sup> | 1933. <sup>1</sup> | 1934. <sup>1</sup> |
|-----------------------|------------|------------|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                       | No.        | No.        | No.          | No.                | No.                | No.                | No.                | No.                | No.                | No.                |
| P.E. Island.....      | —          | 9          | 10           | 41                 | 28                 | 28                 | 28                 | 28                 | 28                 | 27                 |
| Nova Scotia.....      | 5          | 89         | 101          | 169                | 134                | 138                | 138                | 138                | 136                | 134                |
| New Brunswick.....    | 4          | 35         | 49           | 121                | 101                | 102                | 101                | 100                | 99                 | 98                 |
| Quebec.....           | 12         | 137        | 196          | 1,150              | 1,072              | 1,183              | 1,176              | 1,131              | 1,109              | 1,093              |
| Ontario.....          | 100        | 349        | 549          | 1,586              | 1,326              | 1,409              | 1,400              | 1,351              | 1,293              | 1,259              |
| Manitoba.....         | —          | 52         | 95           | 349                | 224                | 239                | 222                | 202                | 196                | 193                |
| Saskatchewan.....     | —          | —          | —            | 591                | 427                | 447                | 394                | 361                | 339                | 309                |
| Alberta.....          | —          | 30         | 87           | 424                | 269                | 304                | 278                | 251                | 235                | 215                |
| British Columbia..... | 2          | 46         | 55           | 242                | 186                | 229                | 229                | 206                | 198                | 195                |
| Yukon.....            | —          | —          | 3            | 3                  | 3                  | 4                  | 4                  | 4                  | 4                  | 4                  |
| <b>Totals.....</b>    | <b>123</b> | <b>747</b> | <b>1,145</b> | <b>4,676</b>       | <b>3,770</b>       | <b>4,083</b>       | <b>3,970</b>       | <b>3,772</b>       | <b>3,637</b>       | <b>3,527</b>       |

<sup>1</sup> Includes sub-agencies for receiving deposits for the banks employing them.

**18.—Number of Branches of Individual Canadian Chartered Banks in each Province and in Other Countries as at Dec. 31, 1933.**

NOTE.—This table does not include sub-agencies which numbered 593 in 1933, including 2 in "Other Countries".

| Bank.                             | P.E. Island. | Nova Scotia. | New Brunswick. | Quebec.    | Ontario.     | Manitoba.  |
|-----------------------------------|--------------|--------------|----------------|------------|--------------|------------|
|                                   | No.          | No.          | No.            | No.        | No.          | No.        |
| Bank of Montreal.....             | 1            | 14           | 13             | 119        | 207          | 36         |
| Bank of Nova Scotia.....          | 9            | 36           | 37             | 22         | 131          | 7          |
| Bank of Toronto.....              | —            | —            | —              | 14         | 104          | 12         |
| Banque Provinciale du Canada..... | 3            | —            | 13             | 106        | 14           | —          |
| Canadian Bank of Commerce.....    | 7            | 19           | 6              | 62         | 282          | 41         |
| Royal Bank of Canada.....         | 6            | 62           | 22             | 79         | 246          | 69         |
| Dominion Bank.....                | —            | —            | 1              | 8          | 99           | 12         |
| Banque Canadienne Nationale.....  | —            | —            | —              | 209        | 13           | 8          |
| Imperial Bank of Canada.....      | —            | —            | —              | 3          | 115          | 8          |
| Barclays Bank (Canada).....       | —            | —            | —              | 2          | 2            | —          |
| <b>Totals.....</b>                | <b>26</b>    | <b>131</b>   | <b>92</b>      | <b>624</b> | <b>1,213</b> | <b>193</b> |

| Bank.                             | Saskatchewan. | Alberta.   | British Columbia. | Yukon.   | Other Countries. | Total.       |
|-----------------------------------|---------------|------------|-------------------|----------|------------------|--------------|
|                                   | No.           | No.        | No.               | No.      | No.              | No.          |
| Bank of Montreal.....             | 45            | 53         | 51                | 2        | 12               | 553          |
| Bank of Nova Scotia.....          | 21            | 9          | 6                 | —        | 39               | 317          |
| Bank of Toronto.....              | 27            | 13         | 9                 | —        | —                | 179          |
| Banque Provinciale du Canada..... | —             | —          | —                 | —        | —                | 136          |
| Canadian Bank of Commerce.....    | 88            | 62         | 63                | 2        | 15               | 647          |
| Royal Bank of Canada.....         | 108           | 63         | 51                | —        | 83               | 789          |
| Dominion Bank.....                | 4             | 4          | 3                 | —        | 2                | 133          |
| Banque Canadienne Nationale.....  | 6             | 5          | —                 | —        | 1                | 242          |
| Imperial Bank of Canada.....      | 38            | 22         | 12                | —        | —                | 198          |
| Barclays Bank (Canada).....       | —             | —          | —                 | —        | —                | 4            |
| <b>Totals.....</b>                | <b>337</b>    | <b>231</b> | <b>195</b>        | <b>4</b> | <b>152</b>       | <b>3,198</b> |

### 18A.—Number of Branches of Individual Canadian Chartered Banks in each Province and in Other Countries as at Dec. 31, 1934.

NOTE.—This table does not include sub-agencies which, numbered 612 in 1934, including 2 in "Other Countries".

| Bank.                             | P.E.<br>Island. | Nova<br>Scotia. | New<br>Brun-<br>swick. | Quebec.    | Ontario.     | Manitoba.  |
|-----------------------------------|-----------------|-----------------|------------------------|------------|--------------|------------|
|                                   | No.             | No.             | No.                    | No.        | No.          | No.        |
| Bank of Montreal.....             | 1               | 13              | 13                     | 113        | 199          | 36         |
| Bank of Nova Scotia.....          | 8               | 36              | 36                     | 21         | 128          | 7          |
| Bank of Toronto.....              | —               | —               | —                      | 14         | 96           | 12         |
| Banque Provinciale du Canada..... | 3               | —               | 13                     | 106        | 14           | —          |
| Canadian Bank of Commerce.....    | 6               | 18              | 6                      | 60         | 261          | 40         |
| Royal Bank of Canada.....         | 6               | 62              | 22                     | 78         | 234          | 67         |
| Dominion Bank.....                | —               | —               | 1                      | 8          | 99           | 12         |
| Banque Canadienne Nationale.....  | —               | —               | —                      | 205        | 13           | 8          |
| Imperial Bank of Canada.....      | —               | —               | —                      | 3          | 116          | 8          |
| Barclays Bank (Canada).....       | —               | —               | —                      | 1          | 1            | —          |
| <b>Totals.....</b>                | <b>24</b>       | <b>129</b>      | <b>91</b>              | <b>609</b> | <b>1,161</b> | <b>190</b> |

| Bank.                             | Saskat-<br>chewan. | Alberta.   | British<br>Colum-<br>bia. | Yukon.   | Other<br>Count-<br>ries. | Total.       |
|-----------------------------------|--------------------|------------|---------------------------|----------|--------------------------|--------------|
|                                   | No.                | No.        | No.                       | No.      | No.                      | No.          |
| Bank of Montreal.....             | 38                 | 49         | 51                        | 2        | 11                       | 526          |
| Bank of Nova Scotia.....          | 20                 | 9          | 6                         | —        | 39                       | 310          |
| Bank of Toronto.....              | 25                 | 13         | 10                        | —        | —                        | 170          |
| Banque Provinciale du Canada..... | —                  | —          | —                         | —        | —                        | 136          |
| Canadian Bank of Commerce.....    | 78                 | 55         | 62                        | 2        | 13                       | 601          |
| Royal Bank of Canada.....         | 100                | 54         | 49                        | —        | 82                       | 754          |
| Dominion Bank.....                | 4                  | 4          | 3                         | —        | 2                        | 133          |
| Banque Canadienne Nationale.....  | 6                  | 5          | —                         | —        | 1                        | 238          |
| Imperial Bank of Canada.....      | 35                 | 22         | 11                        | —        | —                        | 195          |
| Barclays Bank (Canada).....       | —                  | —          | —                         | —        | —                        | 2            |
| <b>Totals.....</b>                | <b>306</b>         | <b>211</b> | <b>192</b>                | <b>4</b> | <b>148</b>               | <b>3,065</b> |

### 19.—Number of Branches of each of the Canadian Chartered Banks in Other Countries, with their Locations, Dec. 31, 1933 and 1934.

| Bank and Location.        | 1933.<br>Branches. | 1934.<br>Branches. | Bank and Location.           | 1933.<br>Branches.     | 1934.<br>Branches.     |
|---------------------------|--------------------|--------------------|------------------------------|------------------------|------------------------|
|                           | No.                | No.                |                              | No.                    | No.                    |
| The Bank of Montreal—     |                    |                    | The Canadian Bank of Com-    |                        |                        |
| Newfoundland.....         | 5 <sup>1</sup>     | 5 <sup>1</sup>     | merce—conc.                  |                        |                        |
| England.....              | 2                  | 2                  | South America.....           | 1                      | —                      |
| France.....               | 1                  | 1                  | St. Pierre and Miquelon..... | 1                      | 1                      |
| United States.....        | 3                  | 3                  | The Royal Bank of Canada—    |                        |                        |
| Mexico.....               | 1                  | —                  | Newfoundland.....            | 5                      | 5                      |
| The Bank of Nova Scotia—  |                    |                    | England.....                 | 2                      | 2                      |
| Newfoundland.....         | 12                 | 12                 | British West Indies.....     | 11                     | 11                     |
| England.....              | 1                  | 1                  | United States.....           | 1                      | 1                      |
| British West Indies.....  | 12 <sup>1</sup>    | 12 <sup>1</sup>    | Cuba.....                    | 24                     | 23                     |
| United States.....        | 3                  | 3                  | Puerto Rico, etc.....        | 12                     | 12                     |
| Cuba.....                 | 8                  | 8                  | France (auxiliary).....      | 1                      | 1                      |
| Puerto Rico, etc.....     | 3                  | 3                  | Spain.....                   | 1                      | 1                      |
| The Canadian Bank of Com- |                    |                    | Central and South America    | 26                     | 26                     |
| merce—                    |                    |                    | The Dominion Bank—           |                        |                        |
| Newfoundland.....         | 2                  | 2                  | England.....                 | 1                      | 1                      |
| England.....              | 1                  | 1                  | United States.....           | 1                      | 1                      |
| British West Indies.....  | 3                  | 3                  | Banque Canadienne Nation-    |                        |                        |
| United States.....        | 5                  | 5                  | ale—                         |                        |                        |
| Cuba.....                 | 1                  | 1                  | France.....                  | 1                      | 1                      |
| Mexico.....               | 1                  | —                  |                              |                        |                        |
|                           |                    |                    | <b>Totals.....</b>           | <b>152<sup>2</sup></b> | <b>148<sup>2</sup></b> |

<sup>1</sup>Exclusive of one sub-agency. <sup>2</sup>Exclusive of two sub-agencies.

**Earnings of Canadian Banks.**—The chartered banks of Canada are for the most part Dominion-wide institutions, doing business in all parts of the country. Their earnings, therefore, reflect with very considerable faithfulness the fluctuations of general business. So far as individual banks are concerned, the changes resulting from amalgamations are apt to render the figures incomparable over a period of years. During the six years covered by Table 20, however, only one bank, the Imperial Bank of Canada, has absorbed another bank, *viz*, The Weyburn Security Bank.

**20.—Net Profits of Canadian Banks and Rates of Dividend Paid, for their business years ended 1929-34.**

NOTE.—The profits of the Bank of Nova Scotia and the Bank of Toronto are stated exclusive of amounts paid for Dominion and provincial taxes; these amounts, however, are included for the other banks.

| Bank.                                     | 1929.             |                | 1930.             |                | 1931.             |                |
|-------------------------------------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|
|                                           | Net Profits.      | Dividend Rate. | Net Profits.      | Dividend Rate. | Net Profits.      | Dividend Rate. |
|                                           | \$                | p.c.           | \$                | p.c.           | \$                | p.c.           |
| Bank of Montreal.....                     | 7,070,892         | 12+2           | 6,519,031         | 12+2           | 5,386,380         | 12             |
| Bank of Nova Scotia.....                  | 2,761,117         | 16             | 2,535,643         | 16             | 2,579,802         | 16             |
| Bank of Toronto.....                      | 1,453,436         | 12+1           | 1,339,872         | 12+1           | 1,168,915         | 12             |
| Banque Provinciale du Canada.....         | 551,022           | 9              | 511,457           | 9              | 467,440           | 9              |
| Canadian Bank of Commerce                 | 5,066,229         | 12+1           | 5,378,423         | 12+1           | 4,774,923         | 12             |
| Royal Bank of Canada.....                 | 7,145,137         | 12+2           | 6,572,627         | 12+2           | 5,468,327         | 12             |
| Dominion Bank.....                        | 1,522,809         | 12+1           | 1,409,747         | 12+1           | 1,322,287         | 12             |
| Banque Canadienne Nationale.....          | 1,053,100         | 10             | 1,024,702         | 10             | 1,001,940         | 10             |
| Imperial Bank of Canada.....              | 1,561,562         | 12+1           | 1,424,081         | 12+1           | 1,328,864         | 12             |
| Weyburn Security Bank <sup>1</sup> .....  | 38,147            | 7              | —                 | —              | —                 | —              |
| Barclays Bank (Canada) <sup>2</sup> ..... | —                 | —              | —                 | —              | —                 | —              |
| <b>Totals, Net Profits.....</b>           | <b>28,223,451</b> | <b>—</b>       | <b>26,715,583</b> | <b>—</b>       | <b>23,478,878</b> | <b>—</b>       |

| Bank.                                     | 1932.             |                | 1933.             |                | 1934.             |                |
|-------------------------------------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|
|                                           | Net Profits.      | Dividend Rate. | Net Profits.      | Dividend Rate. | Net Profits.      | Dividend Rate. |
|                                           | \$                | p.c.           | \$                | p.c.           | \$                | p.c.           |
| Bank of Montreal.....                     | 4,663,100         | 11             | 4,005,154         | 8½             | 4,105,024         | 8              |
| Bank of Nova Scotia.....                  | 2,303,434         | 15             | 2,035,900         | 12½            | 1,850,330         | 12             |
| Bank of Toronto.....                      | 1,044,393         | 11             | 1,037,922         | 10             | 822,499           | 10             |
| Banque Provinciale du Canada.....         | 454,659           | 8½             | 410,655           | 6½             | 417,366           | 6              |
| Canadian Bank of Commerce                 | 4,279,424         | 11             | 3,648,832         | 8½             | 3,413,654         | 8              |
| Royal Bank of Canada.....                 | 4,861,849         | 11             | 3,901,649         | 8½             | 4,398,217         | 8              |
| Dominion Bank.....                        | 1,179,931         | 11             | 1,139,202         | 10             | 1,151,561         | 10             |
| Banque Canadienne Nationale.....          | 972,075           | 10             | 970,350           | 10             | 935,823           | 9½             |
| Imperial Bank of Canada.....              | 1,205,335         | 11½            | 1,204,039         | 10             | 1,231,992         | 10             |
| Barclays Bank (Canada) <sup>2</sup> ..... | —                 | —              | —                 | —              | —                 | —              |
| <b>Totals, Net Profits.....</b>           | <b>20,964,200</b> | <b>—</b>       | <b>18,353,793</b> | <b>—</b>       | <b>18,326,466</b> | <b>—</b>       |

<sup>1</sup>Absorbed by Imperial Bank of Canada, May 1, 1931. had reported no profits or dividends up to the end of 1934.

<sup>2</sup>This bank, which opened in September, 1929, had reported no profits or dividends up to the end of 1934.

<sup>3</sup>This bank paid at the rate of 10 p.c. per annum for the first half-year and 8 p.c. for the second.

In Tables 21, 21A, 22 and 22A will be found statistics showing the positions of the individual chartered banks on Dec. 31, 1933 and 1934.

**21.—Principal and Total Assets of each of the Chartered Banks of Canada,  
Dec. 31, 1933.**

| Bank.                        | Current<br>Gold and<br>Subsidiary<br>Coin. | Dominion<br>Notes. | Deposit in<br>Central<br>Gold<br>Reserves. | United States<br>and other<br>Foreign<br>Currencies. | Due from<br>other Banks. |
|------------------------------|--------------------------------------------|--------------------|--------------------------------------------|------------------------------------------------------|--------------------------|
|                              | \$                                         | \$                 | \$                                         | \$                                                   | \$                       |
| Bank of Montreal.....        | 16,692,439                                 | 45,490,408         | 4,000,000                                  | 354,907                                              | 38,379,375               |
| Bank of Nova Scotia.....     | 8,994,314                                  | 24,253,953         | 1,250,000                                  | 2,089,584                                            | 15,600,088               |
| Bank of Toronto.....         | 394,904                                    | 3,677,485          | 630,866                                    | 23,765                                               | 7,579,306                |
| Banque Provinciale du Canada | 222,692                                    | 387,517            | —                                          | 65,458                                               | 3,246,583                |
| Canadian Bank of Commerce.   | 11,605,685                                 | 26,516,774         | 4,000,000                                  | 883,130                                              | 32,669,146               |
| Royal Bank of Canada.....    | 9,964,039                                  | 26,982,594         | 3,000,000                                  | 15,016,960                                           | 59,516,916               |
| Dominion Bank.....           | 629,896                                    | 7,623,723          | 400,000                                    | 69,355                                               | 7,703,886                |
| Banque Canadienne Nationale. | 901,542                                    | 881,261            | 2,400,000                                  | 60,933                                               | 4,570,247                |
| Imperial Bank of Canada..... | 495,819                                    | 3,875,413          | 2,100,866                                  | 49,658                                               | 8,306,875                |
| Barclays Bank (Canada).....  | 12,932                                     | 43,793             | —                                          | 1,240                                                | 5,659,785                |
| <b>Totals.....</b>           | <b>49,914,262</b>                          | <b>139,732,921</b> | <b>17,781,732<sup>1</sup></b>              | <b>18,614,990</b>                                    | <b>183,232,207</b>       |

| Bank.                        | Securities.        | Loans and Discounts.           |                                                |                                                    | Total<br>Assets. <sup>2</sup> |
|------------------------------|--------------------|--------------------------------|------------------------------------------------|----------------------------------------------------|-------------------------------|
|                              |                    | Call<br>Loans<br>in<br>Canada. | Current<br>Loans<br>in<br>Canada. <sup>1</sup> | Call and<br>Current Loans<br>outside<br>of Canada. |                               |
|                              | \$                 | \$                             | \$                                             | \$                                                 | \$                            |
| Bank of Montreal.....        | 324,441,394        | 6,770,422                      | 237,759,273                                    | 41,470,617                                         | 743,715,416                   |
| Bank of Nova Scotia.....     | 79,190,271         | 9,042,136                      | 97,238,615                                     | 15,109,766                                         | 270,447,064                   |
| Bank of Toronto.....         | 41,210,064         | 4,911,128                      | 49,325,083                                     | —                                                  | 113,252,320                   |
| Banque Provinciale du Canada | 17,654,264         | 4,859,204                      | 14,997,141                                     | —                                                  | 45,120,539                    |
| Canadian Bank of Commerce.   | 143,722,668        | 30,755,124                     | 220,084,071                                    | 36,646,988                                         | 548,226,286                   |
| Royal Bank of Canada.....    | 145,969,681        | 30,764,067                     | 232,145,240                                    | 133,598,274                                        | 709,835,883                   |
| Dominion Bank.....           | 33,760,487         | 7,107,790                      | 54,091,416                                     | 1,248,995                                          | 121,172,546                   |
| Banque Canadienne Nationale. | 44,321,550         | 5,346,897                      | 57,668,939                                     | 55,848                                             | 125,187,754                   |
| Imperial Bank of Canada..... | 29,165,163         | 5,969,221                      | 71,169,672                                     | —                                                  | 129,262,519                   |
| Barclays Bank (Canada).....  | 1,570,609          | 423,900                        | 1,305,000                                      | —                                                  | 9,532,477                     |
| <b>Totals.....</b>           | <b>861,006,151</b> | <b>105,949,889</b>             | <b>1,035,784,450</b>                           | <b>228,130,488</b>                                 | <b>2,815,752,804</b>          |

<sup>1</sup>Includes loans to Provincial Governments and to cities, towns, municipalities and school districts.

<sup>2</sup>Includes other assets.      \$6,498,399 in gold, the remainder being Dominion notes.



**21A.—Principal and Total Assets of each of the Chartered Banks of Canada,  
Dec. 31, 1934.**

| Bank.                         | Current<br>Gold and<br>Subsidiary<br>Coin. | Dominion<br>Notes. | Deposit in<br>Central<br>Gold<br>Reserves. | United States<br>and other<br>Foreign<br>Currencies. | Due from<br>other Banks. |
|-------------------------------|--------------------------------------------|--------------------|--------------------------------------------|------------------------------------------------------|--------------------------|
|                               | \$                                         | \$                 | \$                                         | \$                                                   | \$                       |
| Bank of Montreal.....         | 15,021,978                                 | 45,051,762         | 5,000,000                                  | 391,334                                              | 43,503,957               |
| Bank of Nova Scotia.....      | 9,313,228                                  | 19,699,490         | 1,750,000                                  | 2,280,730                                            | 22,233,651               |
| Bank of Toronto.....          | 408,603                                    | 8,094,219          | 1,230,866                                  | 40,104                                               | 11,012,365               |
| Banque Provinciale du Canada. | 250,355                                    | 364,551            | 400,000                                    | 47,662                                               | 3,683,161                |
| Canadian Bank of Commerce..   | 10,588,262                                 | 38,878,058         | 4,000,000                                  | 716,662                                              | 31,433,993               |
| Royal Bank of Canada.....     | 12,405,678                                 | 39,195,138         | 3,000,000                                  | 16,027,615                                           | 59,353,468               |
| Dominion Bank.....            | 666,788                                    | 10,879,472         | 400,000                                    | 69,982                                               | 9,748,071                |
| Banque Canadienne Nationale.  | 886,905                                    | 2,546,500          | 1,300,000                                  | 76,681                                               | 5,922,525                |
| Imperial Bank of Canada.....  | 513,247                                    | 5,080,647          | 1,500,866                                  | 41,385                                               | 10,874,346               |
| Barclays Bank (Canada).....   | 13,287                                     | 43,506             | —                                          | 2,104                                                | 7,643,161                |
| <b>Totals .....</b>           | <b>50,068,331</b>                          | <b>169,833,343</b> | <b>18,581,732<sup>1</sup></b>              | <b>19,694,259</b>                                    | <b>205,408,698</b>       |

| Bank.                        | Securities.        | Loans and Discounts.           |                                                |                                                    | Total<br>Assets. <sup>2</sup> |
|------------------------------|--------------------|--------------------------------|------------------------------------------------|----------------------------------------------------|-------------------------------|
|                              |                    | Call<br>Loans<br>in<br>Canada. | Current<br>Loans<br>in<br>Canada. <sup>1</sup> | Call and<br>Current Loans<br>outside<br>of Canada. |                               |
|                              | \$                 | \$                             | \$                                             | \$                                                 | \$                            |
| Bank of Montreal.....        | 341,842,018        | 7,401,324                      | 227,807,841                                    | 43,373,539                                         | 756,794,270                   |
| Bank of Nova Scotia.....     | 94,527,146         | 11,458,368                     | 86,000,595                                     | 15,785,686                                         | 280,698,686                   |
| Bank of Toronto.....         | 36,803,210         | 7,235,722                      | 49,044,999                                     | —                                                  | 119,129,700                   |
| Banque Provinciale du Canada | 19,966,723         | 5,068,175                      | 14,120,643                                     | —                                                  | 47,530,653                    |
| Canadian Bank of Commerce..  | 179,058,622        | 24,359,148                     | 203,310,138                                    | 46,627,546                                         | 581,505,214                   |
| Royal Bank of Canada.....    | 172,484,891        | 27,331,964                     | 223,546,456                                    | 124,157,338                                        | 731,694,788                   |
| Dominion Bank.....           | 34,317,603         | 7,801,873                      | 50,220,133                                     | 2,691,227                                          | 125,807,123                   |
| Banque Canadienne Nationale. | 48,133,704         | 4,987,136                      | 53,035,176                                     | 51,229                                             | 125,882,252                   |
| Imperial Bank of Canada..... | 35,667,396         | 6,359,673                      | 68,157,188                                     | —                                                  | 136,307,965                   |
| Barclays Bank (Canada).....  | 3,746,388          | 660,350                        | 1,230,029                                      | —                                                  | 13,936,293                    |
| <b>Totals .....</b>          | <b>966,547,701</b> | <b>102,699,733</b>             | <b>976,473,198</b>                             | <b>232,686,565</b>                                 | <b>2,919,286,944</b>          |

<sup>1</sup>Includes loans to Provincial Governments and to cities, towns, municipalities and school districts  
<sup>2</sup>Includes other assets. \$5,181,732 in gold, the remainder being Dominion notes.

**22.—Principal and Total Liabilities of each of the Chartered Banks of Canada,  
Dec. 31, 1933.**

| Bank.                         | Capital<br>(paid up). | Reserve or<br>Fund. | Notes<br>in<br>Circulation. | Due to<br>Dominion<br>and to<br>Provincial<br>Governments. | Letters<br>of Credit<br>Outstanding. |
|-------------------------------|-----------------------|---------------------|-----------------------------|------------------------------------------------------------|--------------------------------------|
|                               | \$                    | \$                  | \$                          | \$                                                         | \$                                   |
| Bank of Montreal.....         | 36,000,000            | 38,000,000          | 33,342,250                  | 24,453,372                                                 | 6,589,607                            |
| Bank of Nova Scotia.....      | 12,000,000            | 24,000,000          | 11,501,047                  | 6,335,152                                                  | 5,722,393                            |
| Bank of Toronto.....          | 6,000,000             | 9,000,000           | 6,018,249                   | 1,053,066                                                  | 1,103,800                            |
| Banque Provinciale du Canada. | 4,000,000             | 1,000,000           | 3,780,095                   | 438,342                                                    | 56,043                               |
| Canadian Bank of Commerce..   | 30,000,000            | 20,000,000          | 23,763,025                  | 6,408,355                                                  | 12,834,419                           |
| Royal Bank of Canada.....     | 35,000,000            | 20,000,000          | 30,076,706                  | 11,505,253                                                 | 20,315,978                           |
| Dominion Bank.....            | 7,000,000             | 7,000,000           | 6,261,243                   | 4,708,255                                                  | 1,661,643                            |
| Banque Canadienne Nationale.  | 7,000,000             | 5,000,000           | 9,294,639                   | 2,501,849                                                  | 431,974                              |
| Imperial Bank of Canada.....  | 7,000,000             | 8,000,000           | 7,733,983                   | 3,507,599                                                  | 627,040                              |
| Barclays Bank (Canada).....   | 500,000               | 500,000             | 287,720                     | 336,200                                                    | 36,050                               |
| <b>Totals.....</b>            | <b>144,500,000</b>    | <b>132,500,000</b>  | <b>132,053,957</b>          | <b>61,247,443</b>                                          | <b>49,378,947</b>                    |

| Bank.                         | Deposits.               |                         |                          | Due to<br>other<br>Banks. | Total<br>Liabilities. <sup>1</sup> |
|-------------------------------|-------------------------|-------------------------|--------------------------|---------------------------|------------------------------------|
|                               | Demand<br>in<br>Canada. | Notice<br>in<br>Canada. | Outside<br>of<br>Canada. |                           |                                    |
|                               | \$                      | \$                      | \$                       | \$                        | \$                                 |
| Bank of Montreal.....         | 134,201,625             | 382,032,766             | 65,524,010               | 10,702,000                | 741,668,047                        |
| Bank of Nova Scotia.....      | 34,201,845              | 132,478,002             | 34,977,359               | 4,365,044                 | 269,679,629                        |
| Bank of Toronto.....          | 24,126,040              | 61,660,527              | —                        | 1,634,005                 | 112,329,550                        |
| Banque Provinciale du Canada. | 4,092,515               | 30,746,154              | —                        | 64,413                    | 44,784,457                         |
| Canadian Bank of Commerce..   | 105,438,022             | 276,364,452             | 56,666,186               | 8,101,012                 | 546,645,347                        |
| Royal Bank of Canada.....     | 129,197,432             | 262,650,929             | 160,831,489              | 18,314,042                | 708,284,296                        |
| Dominion Bank.....            | 26,074,876              | 61,751,134              | 3,037,364                | 1,280,402                 | 120,737,202                        |
| Banque Canadienne Nationale.  | 16,291,754              | 76,150,298              | 1,150,459                | 1,015,078                 | 124,742,366                        |
| Imperial Bank of Canada.....  | 26,961,607              | 70,299,785              | —                        | 2,247,916                 | 127,968,951                        |
| Barclays Bank (Canada).....   | 1,285,227               | 2,782,779               | —                        | 3,713,552                 | 9,525,531                          |
| <b>Totals.....</b>            | <b>501,870,913</b>      | <b>1,356,916,826</b>    | <b>322,186,867</b>       | <b>51,437,464</b>         | <b>2,806,365,376</b>               |

<sup>1</sup>Includes other liabilities.

22A.—Principal and Total Liabilities of each of the Chartered Banks of Canada,  
Dec. 31, 1934.

| Bank.                        | Capital<br>(paid up). | Reserve<br>Fund.   | Notes<br>in<br>Circulation. | Due to<br>Dominion<br>and to<br>Provincial<br>Governments. | Letters<br>of Credit<br>Outstanding. |
|------------------------------|-----------------------|--------------------|-----------------------------|------------------------------------------------------------|--------------------------------------|
|                              | \$                    | \$                 | \$                          | \$                                                         | \$                                   |
| Bank of Montreal.....        | 36,000,000            | 38,000,000         | 33,888,821                  | 19,405,262                                                 | 5,818,229                            |
| Bank of Nova Scotia.....     | 12,000,000            | 24,000,000         | 12,322,202                  | 3,405,299                                                  | 5,973,315                            |
| Bank of Toronto.....         | 6,000,000             | 9,000,000          | 6,391,054                   | 988,622                                                    | 831,110                              |
| Banque Provinciale du Canada | 4,000,000             | 1,000,000          | 4,216,396                   | 313,860                                                    | 99,871                               |
| Canadian Bank of Commerce    | 30,000,000            | 20,000,000         | 25,338,437                  | 10,436,723                                                 | 13,778,555                           |
| Royal Bank of Canada .....   | 35,000,000            | 20,000,000         | 32,383,164                  | 9,807,462                                                  | 21,369,699                           |
| Dominion Bank.....           | 7,000,000             | 7,000,000          | 6,683,623                   | 1,941,703                                                  | 2,116,778                            |
| Banque Canadienne Nationale  | 7,000,000             | 5,000,000          | 7,594,839                   | 2,045,029                                                  | 282,079                              |
| Imperial Bank of Canada..... | 7,000,000             | 8,000,000          | 7,295,758                   | 4,177,138                                                  | 453,915                              |
| Barclays Bank (Canada).....  | 1,500,000             | 750,000            | 320,460                     | 96,958                                                     | 84,760                               |
| <b>Totals.....</b>           | <b>145,500,000</b>    | <b>132,750,000</b> | <b>136,431,754</b>          | <b>52,618,056</b>                                          | <b>50,808,311</b>                    |

| Bank.                         | Deposits.               |                         |                          | Due to<br>other<br>Banks. | Total<br>Liabilities. <sup>1</sup> |
|-------------------------------|-------------------------|-------------------------|--------------------------|---------------------------|------------------------------------|
|                               | Demand<br>in<br>Canada. | Notice<br>in<br>Canada. | Outside<br>of<br>Canada. |                           |                                    |
|                               | \$                      | \$                      | \$                       | \$                        | \$                                 |
| Bank of Montreal.....         | 154,447,989             | 388,033,057             | 61,739,723               | 7,172,679                 | 755,143,164                        |
| Bank of Nova Scotia .....     | 40,930,668              | 135,322,407             | 35,495,458               | 6,165,041                 | 279,893,333                        |
| Bank of Toronto.....          | 25,648,163              | 65,955,346              | —                        | 1,786,042                 | 118,102,184                        |
| Banque Provinciale du Canada. | 4,532,293               | 32,398,182              | —                        | 42,478                    | 47,213,622                         |
| Canadian Bank of Commerce .   | 120,440,804             | 288,668,201             | 56,003,073               | 7,650,126                 | 579,975,749                        |
| Royal Bank of Canada.....     | 151,502,610             | 273,471,790             | 165,816,001              | 10,996,286                | 730,084,289                        |
| Dominion Bank.....            | 28,214,657              | 63,527,293              | 4,585,505                | 2,145,192                 | 125,265,980                        |
| Banque Canadienne Nationale   | 20,171,852              | 79,325,419              | 1,158,107                | 1,126,613                 | 125,464,035                        |
| Imperial Bank of Canada.....  | 26,745,377              | 77,406,936              | —                        | 2,365,349                 | 135,035,531                        |
| Barclays Bank (Canada).....   | 2,862,457               | 3,093,183               | —                        | 5,093,835                 | 13,928,979                         |
| <b>Totals.....</b>            | <b>575,496,870</b>      | <b>1,407,201,814</b>    | <b>325,397,867</b>       | <b>44,543,641</b>         | <b>2,910,106,866</b>               |

<sup>1</sup>Includes other liabilities.

**Bank Amalgamations and Insolvencies.**—Two tables follow which may be of interest to students of Canadian banking history. The first, showing bank insolvencies since 1867, gives the capital paid up, reserves, assets and liabilities of insolvent banks, and shows also the payments to noteholders and depositors. In the majority of cases, both these classes of creditors have received payment in full. The table of bank absorptions gives the dates of absorption of the 36 banks which have been incorporated with other institutions since 1867.

## 23.—Bank Insolvencies

NOTE.—No bank that has failed since 1895 has paid anything to shareholders in respect of their capital investment. There is no reliable information as to earlier dates. Information is not available from which to compute losses with respect to liabilities other than deposits and circulation. In some instances these liabilities would include liabilities to Governments (having preference) and to banks and others. Noteholders have experienced no losses whatever since the inauguration of the Bank Circulation Redemption Fund in 1890 or, in fact, since the failure of the Bank of Prince Edward Island in 1881. The amount of double liability actually collected from shareholders of the banks which latterly became insolvent was as follows:—

| Name of Bank and Place of Chief Office.                                        | Number of Branches when Operations Ceased. | Date of Charter.          | Date of Suspension or Cessation of Normal Operations. | Capital Stock at Date of Suspension. |             |           |
|--------------------------------------------------------------------------------|--------------------------------------------|---------------------------|-------------------------------------------------------|--------------------------------------|-------------|-----------|
|                                                                                |                                            |                           |                                                       | Authorized.                          | Subscribed. | Paid-up.  |
|                                                                                |                                            |                           |                                                       | \$                                   | \$          | \$        |
| 1 Commercial Bank of N.B., St. John, N.B.....                                  | 19                                         | Incorporated 1834 in N.B. | - 1868                                                | -                                    | 600,000     | 600,000   |
| 2 Bank of Acadia, Liverpool, N.S. <sup>1</sup> .....                           | 1                                          | June 14, 1872             | April 1873                                            | -                                    | 500,000     | 100,000   |
| 3 Metropolitan Bank of Montreal.....                                           | 1                                          | April 14, 1871            | Oct. 1876                                             | 1,000,000                            | 1,000,000   | 800,170   |
| 4 Mechanics Bank of Montreal..                                                 | 2                                          | Before Confederation.     | May 1879                                              | 1,000,000                            | 243,374     | 194,794   |
| 5 Bank of Liverpool, Liverpool, N.S.....                                       | 1                                          | April 14, 1871            | Oct. 1879                                             | 500,000                              | 500,000     | 370,548   |
| 6 Consolidated Bank of Canada (City Bank and Royal Can. amalgamated 1879)..... | 16                                         | Sept. 18, 1875            | Aug. 1879                                             | 2,400,000                            | 2,091,900   | 2,080,920 |
| 7 Stadacona Bank, Quebec.....                                                  | 1                                          | June 14, 1872             | July 1879                                             | 1,000,000                            | 1,000,000   | 991,890   |
| 8 Bank of Prince Edward Island, Charlottetown, P.E.I.                          | 1                                          | Local                     | (Voluntary) Nov. 28, 1881                             | -                                    | -           | 120,000   |
| 9 Exchange Bank of Canada, Montreal.....                                       | 5                                          | April 14, 1871            | Sept. 1883                                            | 500,000                              | 500,000     | 500,000   |
| 10 Maritime Bank of Dom. of Can., St. John, N.B.....                           | 2                                          | June 14, 1872             | Mar. 1887                                             | 2,000,000                            | 321,900     | 321,900   |
| 11 Pictou Bank, Pictou, N.S.....                                               | 4                                          | May 23, 1873              | Sept. 1887                                            | 500,000                              | 500,000     | 200,000   |
| 12 Bank of London in Canada, London, Ont.....                                  | 3                                          | May 25, 1883              | (Voluntary) Aug. 1887                                 | 1,000,000                            | 1,000,000   | 241,101   |
| 13 Central Bank of Canada, Toronto, Ont.....                                   | 4                                          | May 25, 1883              | (Voluntary) Nov. 1887                                 | 1,000,000                            | 500,000     | 500,000   |
| 14 Federal Bank, Toronto, Ont. (Changed from "Superior Bank.").....            | 11                                         | May 26, 1874              | Jan. 1888                                             | 1,250,000                            | 1,250,000   | 1,250,000 |
| 15 Commercial Bank of Manitoba, Winnipeg.....                                  | 10                                         | April 19, 1884            | June 30, 1893                                         | 2,000,000                            | 740,700     | 552,650   |
| 16 Banque de Peuple, Montreal.                                                 | 7                                          | June 27, 1844             | July 15, 1895                                         | 1,200,000                            | 1,200,000   | 1,200,000 |
| 17 Banque Ville Marie, Montreal                                                | 19                                         | June 14, 1872             | July 25, 1899                                         | 500,000                              | 500,000     | 479,620   |
| 18 Bank of Yarmouth, Yarmouth, N.S.....                                        | 1                                          | April 15, 1859            | Mar. 6, 1905                                          | 300,000                              | 300,000     | 300,000   |
| 19 Ontario Bank, Toronto <sup>2</sup> .....                                    | 30                                         | May 27, 1857              | Oct. 13, 1905                                         | 1,500,000                            | 1,500,000   | 1,500,000 |
| 20 Sovereign Bank of Canada, Toronto <sup>3</sup> .....                        | 85                                         | May 23, 1901              | Jan. 18, 1908                                         | 3,000,000                            | 3,000,000   | 3,000,000 |
| 21 Banque de St. Jean, St. Jean, P.Q.....                                      | 5                                          | May 3, 1873               | April 28, 1908                                        | 1,000,000                            | 500,000     | 316,386   |
| 22 Banque de St. Hyacinthe, St. Hyacinthe, P.Q.....                            | 6                                          | May 23, 1873              | June 24, 1908                                         | 1,000,000                            | 504,600     | 331,235   |
| 23 St. Stephens Bank, St. Stephens, N.B. <sup>4</sup> .....                    | 1                                          | About 1836                | (Voluntary) Mar. 10, 1910                             | 200,000                              | 200,000     | 200,000   |
| 24 Farmers Bank of Canada, Toronto <sup>5</sup> .....                          | 27                                         | July 18, 1904             | Dec. 19, 1910                                         | 1,000,000                            | 584,500     | 567,579   |
| 25 Bank of Vancouver, Vancouver <sup>6</sup> .....                             | 10                                         | April 3, 1908             | Dec. 14, 1914                                         | 2,000,000                            | 587,400     | 445,188   |
| 26 Home Bank of Canada, Toronto <sup>7</sup> .....                             | 68                                         | July 10, 1903             | Aug. 17, 1923                                         | 5,000,000                            | 2,000,000   | 1,960,591 |
| Total.....                                                                     | 340                                        |                           |                                                       |                                      |             |           |

<sup>1</sup>This bank was only in existence three months and twenty-six days. It re-opened for a few days and redeemed a few thousand dollars worth of its notes. This lasted only a day or two, and the remaining note-



## in Canada since 1867.

|                               |           |                              |            |
|-------------------------------|-----------|------------------------------|------------|
| Bank of Yarmouth.....         | \$264,667 | Banque de St. Hyacinthe..... | \$156,051  |
| Ontario Bank.....             | 1,202,510 | Farmers Bank of Canada.....  | 314,880    |
| Sovereign Bank of Canada..... | 180,500*  | The Bank of Vancouver.....   | 178,111    |
| Banque de St. Jean.....       | 161,975†  | The Home Bank of Canada..... | 1,173,629† |

\*Apart from amount paid up for subscription to shares of International Assets Limited—see footnote 3, at end of table. †This includes approximately \$7,000 collected on unpaid capital stock subscriptions. ‡Includes interest of \$56,657.

| Re-<br>serve<br>Fund. | Rate<br>of<br>Divi-<br>dend. | Circulation. | Deposits.  | Liabilities<br>at Date<br>of<br>Suspension<br>or<br>Nearest<br>Date of<br>Record. | Assets as<br>per Returns<br>at Date of<br>Suspension<br>or<br>Nearest<br>Date of<br>Record. | Paid to—          |                  | Approx-<br>imate<br>Actual or<br>Estimated<br>Loss to<br>Depositors<br>and Note-<br>Holders. |      |
|-----------------------|------------------------------|--------------|------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------|------------------|----------------------------------------------------------------------------------------------|------|
|                       |                              |              |            |                                                                                   |                                                                                             | Note-<br>Holders. | De-<br>positors. |                                                                                              |      |
| \$                    | p.c.                         | \$           | \$         | \$                                                                                | \$                                                                                          | p.c.              | p.c.             | \$                                                                                           |      |
| -                     | -                            | -            | 304,368    | 671,420                                                                           | 1,222,454                                                                                   | 100               | 100              | -                                                                                            | 1    |
| -                     | -                            | -            | 17,959     | 106,914                                                                           | 213,346                                                                                     | -                 | -                | 100,000                                                                                      | 2    |
| -                     | -                            | 40,447       | 129,731    | 293,379                                                                           | 779,225                                                                                     | 100               | 100              | -                                                                                            | 3    |
| -                     | -                            | 168,132      | 253,546    | 547,238                                                                           | 721,155                                                                                     | 57½               | 57½              | 180,000                                                                                      | 4    |
| -                     | -                            | 3,668        | 86,263     | 136,480                                                                           | 207,877                                                                                     | 100               | 96½              | 3,000                                                                                        | 5    |
| -                     | -                            | 423,819      | 1,013,934  | 1,794,249                                                                         | 3,077,202                                                                                   | 100               | 100              | -                                                                                            | 6    |
| -                     | -                            | 152,481      | 188,372    | 341,500                                                                           | 1,355,675                                                                                   | 100               | 100              | -                                                                                            | 7    |
| 45,000                | -                            | 264,000      | 453,000    | 1,108,000                                                                         | 953,244                                                                                     | 59½               | 59½              | 295,000                                                                                      | 8    |
| 300,000               | 8                            | 467,385      | 2,206,377  | 2,868,884                                                                         | 3,779,493                                                                                   | 100               | 66½              | 742,000                                                                                      | 9    |
| 60,000                | 6                            | 314,288      | 1,091,570  | 1,409,482                                                                         | 1,825,993                                                                                   | 100               | 10½              | 975,000                                                                                      | 10   |
| Nil                   | Nil                          | 49,571       | 17,474     | 74,364                                                                            | 277,017                                                                                     | 100               | 100              | -                                                                                            | 11   |
| 50,000                | 7                            | 209,045      | 680,954    | 1,031,280                                                                         | 1,310,675                                                                                   | 100               | 100              | -                                                                                            | 12   |
| 45,000                | 6                            | 492,855      | 2,125,040  | 2,631,378                                                                         | 3,231,518                                                                                   | 100               | 99½              | 7,000                                                                                        | 13   |
| 150,000               | 6                            | 670,492      | 1,005,446  | 3,449,499                                                                         | 4,869,113                                                                                   | 100               | 100              | -                                                                                            | 14   |
| 50,000                | 6                            | 396,890      | 771,456    | 1,341,251                                                                         | 1,951,151                                                                                   | 100               | 100              | -                                                                                            | 15   |
| 600,000               | 7                            | 818,648      | 6,874,217  | 7,761,209                                                                         | 9,533,537                                                                                   | 100               | 75½              | 1,702,000                                                                                    | 16   |
| 10,000                | 6                            | 261,870      | 1,504,665  | 1,766,841                                                                         | 2,267,516                                                                                   | 100               | 17½              | 1,242,000                                                                                    | 17   |
| 35,000                | 5                            | 50,409       | 276,505    | 388,660                                                                           | 723,660                                                                                     | 100               | 100              | -                                                                                            | 18   |
| 700,000               | 7                            | 1,351,402    | 12,656,034 | 15,272,271                                                                        | 15,920,307                                                                                  | 100               | 100              | -                                                                                            | 19   |
| Nil                   | 6                            | 1,988,585    | 11,215,506 | 16,174,408                                                                        | 19,218,746                                                                                  | 100               | 100              | -                                                                                            | 20   |
| 10,000                | 4                            | 219,334      | 340,004    | 560,781                                                                           | 326,118                                                                                     | 100               | 30-27            | 237,000                                                                                      | 21   |
| 75,000                | 6                            | 253,860      | 918,770    | 1,172,630                                                                         | 1,576,443                                                                                   | 100               | 100              | -                                                                                            | 22   |
| 55,000                | 6                            | 149,935      | 386,160    | 549,830                                                                           | 818,271                                                                                     | 100               | 100              | -                                                                                            | 23   |
| Nil                   | 4                            | 429,470      | 1,314,016  | 1,997,041                                                                         | 2,616,683                                                                                   | 100               | Nil              | 1,314,000                                                                                    | 24   |
| -                     | -                            | 254,762      | 555,352    | 912,137                                                                           | 1,532,786                                                                                   | 100               | -                | 550,000                                                                                      | 25   |
| 550,000               | 7                            | 1,724,165    | 15,462,569 | 18,356,373                                                                        | 15,848,400<br>(Curator's<br>summary)                                                        | 100               | -                | -                                                                                            | 7 26 |
| Total .....           |                              |              |            |                                                                                   |                                                                                             |                   |                  | 7,347,000                                                                                    |      |

holders with the exception of the Government got nothing. The Dominion Government received 25 cents on the dollar on several thousand dollars worth of the notes which it held.

—(Footnotes concluded at foot of p. 986.)

24.—Bank Absorptions in Canada since 1867.<sup>1</sup>

| Purchasing Bank.                      | Bank Absorbed.                          | Date. <sup>2</sup> |
|---------------------------------------|-----------------------------------------|--------------------|
| Bank of Montreal.....                 | Exchange Bank, Yarmouth, N.S.....       | Aug. 13, 1903      |
|                                       | People's Bank of Halifax, N.S.....      | June 27, 1905      |
|                                       | Ontario Bank.....                       | Oct. 13, 1906      |
|                                       | People's Bank of New Brunswick.....     | April 15, 1907     |
|                                       | Bank of British North America.....      | Oct. 12, 1918      |
|                                       | Merchants' Bank of Canada.....          | Mar. 20, 1922      |
|                                       | Molson's Bank.....                      | Jan. 20, 1925      |
| Canadian Bank of Commerce.....        | Gore Bank.....                          | May 19, 1870       |
|                                       | Bank of British Columbia.....           | Dec. 31, 1900      |
|                                       | Halifax Banking Co.....                 | May 30, 1903       |
|                                       | Merchants' Bank of P.E.I.....           | May 31, 1906       |
|                                       | Eastern Townships' Bank.....            | Feb. 29, 1912      |
|                                       | Bank of Hamilton.....                   | Dec. 31, 1923      |
|                                       | Standard Bank of Canada.....            | Nov. 3, 1928       |
| Bank of Nova Scotia.....              | Union Bank of P.E.I.....                | Oct. 1, 1883       |
|                                       | Bank of New Brunswick.....              | Feb. 15, 1913      |
|                                       | The Metropolitan Bank.....              | Nov. 14, 1914      |
|                                       | The Bank of Ottawa.....                 | April 30, 1919     |
| Royal Bank of Canada.....             | Union Bank of Halifax.....              | Nov. 1, 1910       |
|                                       | Traders' Bank of Canada.....            | Sept. 3, 1912      |
|                                       | Quebec Bank.....                        | Jan. 2, 1917       |
|                                       | Northern Crown Bank.....                | July 2, 1918       |
|                                       | Union Bank of Canada.....               | Aug. 31, 1925      |
| Imperial Bank of Canada.....          | Niagara District Bank.....              | June 21, 1875      |
|                                       | The Weyburn Security Bank.....          | May 1, 1931        |
| Banque d'Hochelega <sup>3</sup> ..... | Banque Nationale.....                   | April 30, 1924     |
| Bank of New Brunswick.....            | Summerside Bank.....                    | Sept. 12, 1901     |
| Merchants' Bank of Canada.....        | Merchants' Bank.....                    | Feb. 22, 1868      |
|                                       | Commercial Bank of Canada.....          | June 1, 1868       |
| Union Bank of Halifax.....            | Commercial Bank of Windsor.....         | Oct. 31, 1902      |
| Northern Crown Bank.....              | The Northern Bank.....                  | July 2, 1908       |
|                                       | Crown Bank of Canada.....               | July 2, 1908       |
| Union Bank of Canada.....             | United Empire Bank.....                 | Mar. 31, 1911      |
| Home Bank of Canada.....              | La Banque Internationale du Canada..... | April 15, 1913     |
| Standard Bank of Canada.....          | Western Bank of Canada.....             | Feb. 13, 1909      |
|                                       | Sterling Bank of Canada.....            | Dec. 31, 1924      |

<sup>1</sup>The purchasing banks named in the latter part of the table are no longer in business.

<sup>2</sup>Dates given since 1900 are those of the Orders in Council authorizing the absorptions.

<sup>3</sup>The Banque d'Hochelega after absorbing the Banque Nationale adopted the name Banque Canadienne Nationale.

(Footnotes to Table 23 concluded.)—

\*This bank did not suspend payment, but when difficulties were encountered an arrangement was made whereby all liabilities were taken over by the Bank of Montreal which, with certain other banks, assumed responsibility for any loss which might result after realization of assets and double liability of shareholders. Depositors and other creditors accordingly experienced neither loss nor delay. By winding-up order of Sept. 29, 1908, the bank was placed in liquidation and shareholders proceeded against for double liability, in respect of which \$1,202,510 was collected but \$601,534 of that amount subsequently returned. Winding-up proceedings terminated in January, 1918.

\*This bank did not suspend payment. By agreement, certain other banks took over its various branches and assumed all of its liabilities; accordingly depositors and other creditors experienced neither loss nor delay. In 1911, when the assisting banks threatened to place the bank in liquidation for the purpose of enforcing payment of double liability of shareholders, a corporation named International Assets Limited was formed, which assumed all liabilities to the assisting banks and took over the assets of the Sovereign Bank, upon which bonds were issued to the assisting banks for the amount owing them. Numerous shareholders of the Sovereign Bank subscribed to preference shares in the corporation and to the extent that they did so were released from their double liability on shares of the Sovereign Bank; as a result, in excess of \$2,000,000 was collected and paid over to the assisting banks. On Jan. 27, 1914, after it became apparent that a number of shareholders would not subscribe, or pay their double liability voluntarily, the Sovereign Bank (at a time when International Assets Limited was its sole creditor) was placed in liquidation.

\*In addition to realization of general assets, the President of this bank advanced sufficient to permit of all liabilities being paid in full without resort to the double liability of the shareholders.

\*A Royal Commission inquired into the failure of this bank in 1912 and its report, together with the evidence adduced at the inquiry, are matters of public record.

\*Liquidation not yet completed. A preferred claim of the province of British Columbia for approximately \$100,000 has been settled for \$65,000 subject to the proviso that the province may rank with ordinary creditors for the balance, if or when the ordinary creditors have received a dividend of 25 p.c. The remaining assets, however, may realize only sufficient to pay a very small dividend, if any.

\*Interim dividend of 25 p.c. paid by the liquidator in December, 1923, and he anticipates being able to make a further distribution eventually when the remaining assets are realized. The amount will depend entirely upon future developments but, in any event, is unlikely to exceed 10 p.c. The Government of Canada, pursuant to investigation by a Royal Commission into the responsibility for and causes of the failure, granted relief to the extent of 35 p.c. of the claims of certain classes of creditors, namely, all those individuals with claims of less than \$500 as well as those with larger claims who were found upon due inquiry to be in special need or straitened circumstances as a result of the failure. This involved a total outlay of approximately \$3,460,000.

### Subsection 3.—The Volume of Business Transacted through the Banks.

In advanced industrial societies money is only "the small change of commerce". The great bulk of monetary transfers, particularly in the case of the larger transactions, is made through the banks. Thus it has been estimated that in the United States in 1917 about 6 p.c. of the business transactions of the country were financed by the use of money and the remaining 94 p.c. by the use of cheques. Accordingly, if we knew the aggregate amount of the cheques paid through the banks and charged to accounts, we should have an almost complete record of the volume of business transacted, and thus of the business activity of the country.

Statistics of this character were at first secured through the operation of the clearing houses—places where the representatives of all the banks met daily in the leading cities and presented for payment the notes of other banks and the cheques drawn upon other banks that had been paid into their institutions in the regular course of business. In Canada, the first clearing houses to be established were those of Halifax (1887), Montreal (1889), Toronto (1891), Hamilton (1891) and Winnipeg (1893), and the number has subsequently increased to 32. In recent years, owing to the reduction in the number of the banks through amalgamations, the proportion of the inter-bank transactions recorded by the clearing houses to the grand total of banking transactions has declined, and the place of total bank clearings as a measure of business has been taken by total bank debits—*i.e.*, the totals of cheques charged to accounts at all banks. The total bank debits at all branch banks situated in the clearing-house cities of Canada have been compiled for 1924 and subsequent years by the Canadian Bankers' Association for the Dominion Bureau of Statistics, which has published the figures monthly and annually with interpretative analyses. Further, in order that an estimate might be made of the proportion of banking transactions outside the clearing-house cities to the total, the Canadian Bankers' Association secured for the month of January, 1929, the grand total of all cheques charged to accounts at all branch banks throughout the Dominion. The results were published in the Bureau's Monthly Review of Bank Debits for February, 1929, and showed that the aggregate of transactions outside the clearing-house cities was in January, 1929,  $14\frac{1}{2}$  p.c. of the grand total in the clearing-house cities. The corresponding figures in the five economic areas were as follows: Maritime Provinces 90.6 p.c., Quebec 6.1 p.c., Ontario 17.2 p.c., Prairie Provinces 18.6 p.c., British Columbia 14.3 p.c. Only in the Maritime Provinces does the total of bank debits in clearing-house cities appear to represent inadequately the grand total of business transactions throughout the whole area.

**Clearing-House Transactions.**—The following table shows for the years 1930-34 the total volume of clearings in the clearing houses of Canada. These figures, it may be added, represent not only actual city clearings but exchanges between numerous rural branches of the banks in each district.

The following is a description of the operation of the Central Clearing Settlement: From the beginning of 1927 until Mar. 9, 1935, balances due to or by each member of the Montreal, Toronto, Winnipeg and Vancouver clearing houses, after having been settled and declared by the clearing-house manager, were communicated daily (in the case of the three latter clearing houses by telegraph) to a trustee—The Royal Trust Company—in Montreal. Each bank lodged with the trustee a substantial sum in Dominion notes. The trustee on receipt of the daily advice, made the appropriate credit or debit entry in each account kept for each bank. In the usual course the trustee made the entries and balanced the accounts



for the day by twelve o'clock noon, and each bank was immediately notified of the state of its account; if the debits of the day on balance exceeded the amount of Dominion notes held for any bank by the trustee, the bank concerned delivered, within an hour of notification thereof, an amount in Dominion notes sufficient to give it a credit balance.

On Mar. 11, 1935, the Bank of Canada and its Agents took over the functions of The Royal Trust Company in this connection. It was arranged that the clearing house at Ottawa should participate directly in the Central Clearing Settlement. Each bank maintains in its account with the Bank of Canada, Ottawa, a balance (in excess of whatever deposit is maintained as part of the 5 p.c. reserve against deposit liabilities in Canada required by statute) deemed sufficient to settle its clearing obligations. The debit or credit balances of the banks at the specified points are daily communicated by the clearing-house manager, and confirmed by the respective bank, to the local Agent of the Bank of Canada (to the Bank of Canada in the case of Ottawa) for transmission to the Bank of Canada at Ottawa by telephone or telegraph, which bank on the same day debits or credits, as the case may be, the account of the respective bank maintained with the Bank of Canada.

Inasmuch as Montreal, Ottawa, Toronto, Winnipeg and Vancouver are the settlement points for the clearing houses in their respective zones, practically all the banking transactions of the country are adjusted daily in Ottawa in the accounts maintained by the banks with the Bank of Canada.

**25.—Amounts of Exchanges of the Clearing Houses of Chartered Banks in Canada for the calendar years 1930-34.**

| Clearing House.      | 1930.                 | 1931.                 | 1932.                 | 1933.                 | 1934.                 |
|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                      | \$                    | \$                    | \$                    | \$                    | \$                    |
| Brandon.....         | 26,763,171            | 21,015,599            | 17,459,229            | 14,533,366            | 15,458,987            |
| Brantford.....       | 58,564,628            | 48,801,417            | 39,446,268            | 36,878,757            | 38,456,332            |
| Calgary.....         | 451,673,700           | 319,987,617           | 258,257,381           | 256,392,620           | 255,085,201           |
| Chatham.....         | 32,815,670            | 27,388,592            | 22,190,250            | 21,461,353            | 22,211,932            |
| Edmonton.....        | 293,550,893           | 237,843,012           | 194,356,935           | 173,437,240           | 189,164,864           |
| Fort William.....    | 43,543,156            | 34,553,840            | 28,973,198            | 26,551,158            | 32,061,443            |
| Halifax.....         | 174,720,962           | 150,986,615           | 114,384,527           | 100,859,482           | 110,685,559           |
| Hamilton.....        | 310,976,401           | 247,414,617           | 190,818,400           | 175,111,440           | 191,235,709           |
| Kingston.....        | 44,029,362            | 35,357,257            | 28,834,227            | 25,953,786            | 26,825,520            |
| Kitchener.....       | 63,410,494            | 52,182,195            | 43,540,055            | 43,365,053            | 50,268,751            |
| Lethbridge.....      | 29,064,557            | 20,849,308            | 17,287,271            | 17,301,733            | 20,785,708            |
| London.....          | 168,047,076           | 145,511,234           | 127,365,483           | 116,906,848           | 128,018,177           |
| Medicine Hat.....    | 17,303,187            | 12,319,717            | 9,648,413             | 9,819,336             | 10,988,541            |
| Moncton.....         | 51,039,289            | 38,911,582            | 35,040,759            | 31,577,841            | 34,991,249            |
| Montreal.....        | 6,917,957,798         | 5,773,473,678         | 3,971,576,104         | 4,249,531,044         | 4,653,226,857         |
| Moose Jaw.....       | 59,359,874            | 37,751,168            | 27,706,507            | 25,548,000            | 24,740,854            |
| New Westminster..... | 43,641,522            | 30,103,730            | 23,366,543            | 21,278,157            | 25,028,251            |
| Ottawa.....          | 372,586,750           | 323,349,845           | 227,999,793           | 196,686,205           | 219,698,923           |
| Peterborough.....    | 47,113,834            | 38,026,819            | 30,253,664            | 27,848,985            | 30,920,440            |
| Prince Albert.....   | 22,887,338            | 19,749,381            | 14,143,193            | 12,108,245            | 14,357,763            |
| Quebec.....          | 339,596,344           | 285,294,714           | 210,822,180           | 191,774,625           | 200,669,727           |
| Regina.....          | 252,351,215           | 192,876,885           | 176,858,737           | 170,858,649           | 181,277,356           |
| Saint John.....      | 124,224,187           | 115,510,903           | 85,895,057            | 74,776,201            | 84,066,825            |
| Sarnia.....          | 36,465,041            | 25,489,715            | 19,670,808            | 18,781,336            | 20,886,635            |
| Saskatoon.....       | 117,775,186           | 89,784,777            | 73,353,023            | 59,500,613            | 65,343,280            |
| Sherbrooke.....      | 45,958,551            | 37,092,630            | 29,246,459            | 27,452,934            | 28,628,148            |
| Sudbury.....         | 57,927,754            | 36,319,007            | 24,215,334            | 26,470,130            | 34,881,455            |
| Toronto.....         | 6,036,538,536         | 5,134,895,419         | 4,071,710,500         | 4,916,531,044         | 5,643,522,459         |
| Vancouver.....       | 994,131,725           | 795,227,626           | 637,132,962           | 667,955,703           | 755,532,352           |
| Victoria.....        | 125,397,653           | 95,261,092            | 70,673,038            | 69,300,609            | 73,931,173            |
| Windsor.....         | 214,689,007           | 150,917,406           | 117,006,345           | 106,323,870           | 104,459,995           |
| Winnipeg.....        | 2,517,469,597         | 2,253,265,522         | 1,974,022,067         | 2,807,734,669         | 2,676,160,032         |
| <b>Totals.....</b>   | <b>20,091,874,458</b> | <b>16,827,602,919</b> | <b>12,914,154,710</b> | <b>14,720,611,033</b> | <b>15,963,570,498</b> |



Bank clearings, though generally regarded as a leading barometer of business conditions, are defective in that they record only inter-bank transactions—transactions through which one bank becomes either the debtor or the creditor of another. They do not record the numerous transactions in which the transfer of value is made within a single bank, as, for example, where the purchaser and the seller of values that are paid for by cheque carry their accounts in the same bank. As the number of separate banks has in recent years been steadily diminishing through amalgamations, there being only 10 in December, 1934, as compared with 18 in 1923, inter-bank transactions are bearing a steadily decreasing proportion to the total of business transacted, a fact which goes far to explain the relative smallness of the increase in bank clearings from 1926 to 1929 and makes the extent of the subsequent decrease, as shown in Table 25, open to question.

**Bank Debits.**—Since bank clearings have ceased to be a satisfactory measure of general business, the Bureau of Statistics in 1923 took up with the Canadian Bankers' Association the question of securing a record of bank debits, *i.e.*, of all cheques charged against accounts at all banks. The Bankers' Association agreed to secure from January, 1924, the monthly aggregate figures of the amount of cheques charged to accounts at all banking offices situated in the clearing-house centres of Canada, and the figures of cheques charged to accounts (bank debits) are given for the years 1930-34 in Table 26.

It will be noted, as establishing the need of the newer record, that bank debits for 1932 decreased 40.6 p.c. as compared with those of 1928, while bank clearings in the later year show a decrease of 47.4 p.c. The bank debits are a comparable record for the five years; the bank clearings, owing to the reduction in the number of banks, are not a comparable record.

**26.—Bank Debits at the Clearing-House Centres of Canada, by Individual Centres, calendar years, 1930-34.**

| Clearing-House Centre.     | 1930.                 | 1931.                 | 1932.                 | 1933.                 | 1934.                 |
|----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                            | \$                    | \$                    | \$                    | \$                    | \$                    |
| <b>Maritime Provinces—</b> |                       |                       |                       |                       |                       |
| Halifax.....               | 361,736,685           | 330,371,553           | 257,989,295           | 254,222,616           | 275,948,590           |
| Moncton.....               | 101,018,427           | 87,229,007            | 73,548,793            | 72,568,809            | 87,228,253            |
| Saint John.....            | 245,595,665           | 234,942,909           | 187,632,726           | 154,222,107           | 171,074,214           |
| <b>Totals.....</b>         | <b>708,350,777</b>    | <b>652,543,469</b>    | <b>519,170,814</b>    | <b>481,013,532</b>    | <b>534,251,057</b>    |
| <b>Quebec—</b>             |                       |                       |                       |                       |                       |
| Montreal.....              | 12,271,206,394        | 9,756,753,765         | 7,135,517,032         | 7,943,786,599         | 8,834,691,435         |
| Quebec.....                | 744,930,005           | 701,258,405           | 560,686,426           | 558,047,475           | 550,663,976           |
| Sherbrooke.....            | 120,921,940           | 92,060,809            | 69,997,106            | 65,236,186            | 64,354,455            |
| <b>Totals.....</b>         | <b>13,137,058,339</b> | <b>10,550,072,979</b> | <b>7,766,200,564</b>  | <b>8,567,070,260</b>  | <b>9,449,709,866</b>  |
| <b>Ontario—</b>            |                       |                       |                       |                       |                       |
| Brantford.....             | 126,813,356           | 106,212,582           | 85,438,727            | 80,401,856            | 84,950,018            |
| Chatham.....               | 95,460,287            | 81,403,262            | 71,625,208            | 64,147,944            | 71,122,708            |
| Fort William.....          | 78,028,739            | 66,540,124            | 55,335,694            | 47,791,570            | 49,838,324            |
| Hamilton.....              | 831,837,930           | 649,599,942           | 526,940,741           | 460,728,640           | 528,307,959           |
| Kingston.....              | 79,797,075            | 64,828,365            | 55,085,899            | 51,473,716            | 52,719,962            |
| Kitchener.....             | 139,515,780           | 116,857,177           | 96,266,553            | 93,144,698            | 108,804,353           |
| London.....                | 408,176,670           | 365,324,602           | 315,954,273           | 299,130,638           | 334,741,204           |
| Ottawa.....                | 1,904,804,194         | 1,869,730,944         | 1,579,527,632         | 1,339,009,715         | 1,914,296,966         |
| Peterborough.....          | 84,634,613            | 70,964,205            | 55,426,709            | 49,090,223            | 53,767,240            |
| Sarnia.....                | 124,524,399           | 104,000,535           | 95,058,795            | 86,377,931            | 78,158,895            |
| Sudbury.....               | 87,109,599            | 58,832,961            | 40,328,991            | 41,886,025            | 48,991,202            |
| Toronto.....               | 10,654,982,452        | 9,512,342,450         | 8,066,207,006         | 10,221,687,968        | 11,389,321,892        |
| Windsor.....               | 428,655,192           | 310,203,205           | 215,676,051           | 192,566,981           | 204,483,372           |
| <b>Totals.....</b>         | <b>15,044,340,286</b> | <b>13,376,840,354</b> | <b>11,258,872,279</b> | <b>13,027,437,905</b> | <b>14,919,504,095</b> |

**26.—Bank Debits at the Clearing-House Centres of Canada, by Individual Centres, calendar years, 1930-34—concluded.**

| Clearing-House Centre.                     | 1930.                 | 1931.                 | 1932.                 | 1933.                 | 1934.                 |
|--------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                                            | \$                    | \$                    | \$                    | \$                    | \$                    |
| <b>Prairie Provinces—</b>                  |                       |                       |                       |                       |                       |
| Brandon.....                               | 50,605,166            | 39,802,614            | 33,569,832            | 27,283,657            | 26,885,135            |
| Calgary.....                               | 898,426,300           | 647,871,720           | 513,557,662           | 557,891,735           | 526,966,099           |
| Edmonton.....                              | 570,301,889           | 489,783,798           | 393,433,460           | 366,409,278           | 382,681,968           |
| Lethbridge.....                            | 73,734,543            | 49,736,330            | 37,067,143            | 36,911,296            | 42,671,124            |
| Medicine Hat.....                          | 37,887,826            | 26,122,436            | 21,077,192            | 21,505,530            | 25,377,296            |
| Moose Jaw.....                             | 112,897,357           | 79,343,948            | 61,064,586            | 48,696,759            | 51,316,748            |
| Prince Albert.....                         | 32,688,118            | 29,802,029            | 21,124,445            | 17,844,842            | 21,106,682            |
| Regina.....                                | 570,766,671           | 412,701,024           | 462,876,073           | 459,593,195           | 475,031,328           |
| Saskatoon.....                             | 194,543,418           | 143,056,796           | 114,981,799           | 100,029,793           | 102,963,180           |
| Winnipeg.....                              | 3,712,135,033         | 3,279,817,622         | 3,138,453,543         | 4,798,187,549         | 4,682,240,160         |
| Branches of the Weyburn Security Bank..... | 25,099,552            | 3,173,413             | —                     | —                     | —                     |
| <b>Totals.....</b>                         | <b>6,279,080,873</b>  | <b>5,201,211,730</b>  | <b>4,797,205,735</b>  | <b>6,414,353,624</b>  | <b>6,837,239,720</b>  |
| <b>British Columbia—</b>                   |                       |                       |                       |                       |                       |
| New Westminster.....                       | 93,831,458            | 67,987,301            | 51,107,251            | 47,213,108            | 52,390,693            |
| Vancouver.....                             | 1,812,724,948         | 1,416,428,661         | 1,190,466,183         | 1,207,251,145         | 1,320,856,775         |
| Victoria.....                              | 415,915,085           | 321,383,768           | 261,265,467           | 237,125,920           | 252,720,716           |
| <b>Totals.....</b>                         | <b>2,322,471,491</b>  | <b>1,805,799,730</b>  | <b>1,502,838,901</b>  | <b>1,491,590,173</b>  | <b>1,625,968,184</b>  |
| <b>Grand Totals.....</b>                   | <b>37,491,301,766</b> | <b>31,586,468,262</b> | <b>25,844,288,293</b> | <b>29,981,465,494</b> | <b>32,866,672,922</b> |

Three months only, the Weyburn Security Bank having been absorbed by the Imperial Bank of Canada.

**Subsection 4.—Government and other Savings Banks.**

In a comparatively new country where capital is relatively scarce, it is a natural thing that the banks which finance the business institutions should also absorb the bulk of the people's savings for use in promoting the business of the country. Thus in Canada the great bulk of the current savings of the people is found in the savings or notice deposits of the Canadian chartered banks, the annual average figures of which are given for recent years in Table 10 of this chapter, the 1934 average being \$1,372,817,869. Further, the current savings of the Canadian people are going very largely into the purchase of life insurance, the total premiums paid in the single year 1933 aggregating \$214,852,668. In comparison with the enormous figures of notice deposits in chartered banks and with total insurance in force, the deposits in the special savings banks are comparatively small, but are none the less significant.

There are three distinct types of savings banks in Canada at the present time, in addition to the savings departments of the chartered banks and of trust and loan companies. First, there is the Post Office Savings Bank, the deposits in which are a direct obligation of the Dominion Government. Secondly, there are Provincial Government savings banking institutions in Ontario and in Alberta, where the depositor becomes a direct creditor of the province. Thirdly, there are in the province of Quebec two important savings banks, the Montreal City and District Savings Bank and the Caisse d'Economie de Notre-Dame de Québec, established under Dominion legislation and making monthly reports to the Department of Finance.

**Dominion Government Savings Banks.**—Prior to 1929 there were two classes of Dominion Government savings banks in Canada, the Post Office Savings Bank, under the Post Office Department, and the Dominion Government Savings Bank, attached to the Department of Finance. The former was established under the Post Office Act of 1867 (31 Vict., c. 10) in order "to enlarge the facilities now

available for the deposit of small savings, to make the Post Office available for that purpose, and to give the direct security of the Dominion to every depositor for repayment of all money deposited by him together with the interest due thereon". Branches of the Government Savings Bank proper, under the authority of the Finance Department, were established in the leading cities of Canada under the management of the Assistant Receivers-General and in other places, in the provinces of Nova Scotia and New Brunswick, under managers appointed by the Governor in Council. The Dominion Government Savings Bank was amalgamated with the Post Office Savings Bank in 1929. Historical statistics for both systems will be found in Table 27 and more detailed figures covering the last six years in Table 28.

**27.—Deposits with Dominion Government Savings Banks,<sup>1</sup> June 30, 1868-1906, and Mar. 31, 1907-34.**

NOTE.—Figures for all intermediate years will be found on p. 833 of the 1926 Year Book.

| At End of Fiscal Year. | Post Office Savings Bank. | Dominion Government Savings Bank. | At End of Fiscal Year. | Post Office Savings Bank. | Dominion Government Savings Bank. |
|------------------------|---------------------------|-----------------------------------|------------------------|---------------------------|-----------------------------------|
|                        | \$                        | \$                                |                        | \$                        | \$                                |
| 1868.....              | 204,589                   | 1,483,219                         | 1916.....              | 40,008,418                | 13,519,855                        |
| 1870.....              | 1,588,849                 | 1,822,570                         | 1917.....              | 42,582,479                | 13,633,610                        |
| 1875.....              | 2,926,090                 | 4,245,091                         | 1918.....              | 41,283,479                | 12,177,283                        |
| 1876.....              | 3,945,669                 | 7,107,287                         | 1919.....              | 41,654,960                | 11,402,098                        |
| 1880.....              | 15,090,540                | 17,888,536                        | 1920.....              | 31,605,594                | 10,729,218                        |
| 1885.....              | 21,990,653                | 19,021,812                        | 1921.....              | 29,010,619                | 10,150,189                        |
| 1890.....              | 26,805,542                | 17,644,956                        | 1922.....              | 24,837,181                | 9,829,653                         |
| 1895.....              | 37,507,456                | 15,642,267                        | 1923.....              | 22,357,268                | 9,433,839                         |
| 1900.....              | 45,368,321                | 16,649,136                        | 1924.....              | 25,156,449                | 9,055,091                         |
| 1905.....              | 45,736,488                | 16,174,134                        | 1925.....              | 24,662,060                | 8,949,073                         |
| 1906.....              | 47,453,228                | 15,058,584                        | 1926.....              | 24,035,669                | 8,794,870                         |
| 1907.....              | 47,564,284                | 15,016,871                        | 1927.....              | 23,402,337                | 8,519,706                         |
| 1908.....              | 45,190,454                | 14,748,436                        | 1928.....              | 23,463,210                | 7,640,566                         |
| 1909.....              | 43,586,357                | 14,677,872                        | 1929.....              | 28,375,770                | 2                                 |
| 1910.....              | 43,330,579                | 14,673,752                        | 1930.....              | 26,086,036                | 2                                 |
| 1911.....              | 43,563,764                | 14,655,564                        | 1931.....              | 24,750,227                | 2                                 |
| 1912.....              | 42,728,942                | 14,411,541                        | 1932.....              | 23,919,677                | 2                                 |
| 1913.....              | 41,591,286                | 13,976,162                        | 1933.....              | 23,920,915                | 2                                 |
| 1914.....              | 39,995,406                | 14,006,158                        | 1934.....              | 23,158,919                | 2                                 |

<sup>1</sup>Do not include Provincial Government savings banks.

<sup>2</sup>Included in Post Office Savings Bank.

**28.—Summary of the Financial Business of the Post Office Savings Bank, Mar. 31, 1929-34.**

| Item.                        | 1929.      | 1930.      | 1931.      | 1932.      | 1933.      | 1934.      |
|------------------------------|------------|------------|------------|------------|------------|------------|
|                              | \$         | \$         | \$         | \$         | \$         | \$         |
| Deposits during year.....    | 2,910,147  | 2,746,050  | 2,535,563  | 3,582,988  | 3,669,427  | 2,565,470  |
| Interest on deposits.....    | 842,025    | 784,582    | 732,733    | 706,270    | 683,814    | 580,946    |
| Total cash and interest..... | 3,752,172  | 3,530,632  | 3,268,296  | 4,289,258  | 4,353,241  | 3,146,415  |
| Withdrawals.....             | 4,519,507  | 5,820,366  | 4,604,105  | 5,119,808  | 4,352,003  | 3,908,411  |
| At credit of depositors..... | 28,375,770 | 26,086,036 | 24,750,227 | 23,919,677 | 23,920,915 | 23,158,919 |

**Provincial Government Savings Banks.**—Institutions for the deposit of savings are operated by the Provincial Governments of Ontario and Alberta, while a similar institution was in operation in Manitoba from 1924 to 1932 when the depositors' accounts were taken over by the chartered banks.

**Ontario.**—In the session of 1921, the Legislature of Ontario authorized the establishment of the Province of Ontario Savings Office, and in March, 1922, the first branches were opened. The funds received from this source are used almost exclusively to finance farm loans under the Agricultural Development Act. Interest at the rate of 2 p.c. per annum compounded half-yearly is paid on all accounts. The deposits are all repayable on demand. Total deposits on Mar. 31, 1935, were \$22,326,489 and the number of depositors at that date was over 98,000. Eighteen branches are in operation throughout the province.

**Alberta.**—In Alberta the Provincial Treasury receives savings deposits and issues demand savings certificates bearing interest at 3 p.c., or term certificates for one, two or three years, in denominations of \$25 and upwards, bearing interest at 3½ p.c. for one year and 4½ p.c. for two or three years. The total amount in savings certificates on Dec. 31, 1934, was \$10,586,023, made up of \$5,560,108 in demand certificates and \$5,025,915 in term certificates.

**Other Savings Banks.**—The Montreal City and District Savings Bank, founded in 1846 and now operating under a charter of 1871, had on Dec. 31, 1934, a paid-up capital and reserve of \$4,500,000, savings deposits of \$52,696,140 and total liabilities of \$54,541,338. Total assets amounted to \$59,305,992, including over \$43,500,000 of Dominion, provincial and municipal securities. The Caisse d'Economie de Notre-Dame de Québec, founded in 1848 under the auspices of the St. Vincent de Paul Society, incorporated by Act of the Canadian Legislature in 1855 and given a Dominion charter by 34 Victoria, c. 7, had on Dec. 31, 1934, savings deposits of \$12,697,544, a paid-up capital and reserve of \$2,500,000 and total assets of \$16,088,806.

The co-operative people's banks of Quebec (162 reported to the Provincial Government in 1933) are also an important element in promoting thrift and assisting business in that province. Thus on Dec. 31, 1933, savings deposits in these banks amounted to \$5,586,812, while the amount on loan was \$7,667,919. Loans granted in 1933 numbered 11,407 amounting to \$1,682,551. Profits realized amounted to \$452,220.

**29.—Deposits in the Montreal City and District Bank and the Caisse d'Economie de Notre-Dame de Québec, as at June 30, 1868-1906, and Mar. 31, 1907-31.**

NOTE.—Figures for all intermediate years will be found on p. 833 of the 1926 Year Book.

| At June 30—             | Deposits.  | At Mar. 31— | Deposits.  | At Mar. 31— | Deposits.  |
|-------------------------|------------|-------------|------------|-------------|------------|
|                         | \$         |             | \$         |             | \$         |
| 1868.....               | 3,369,799  | 1910.....   | 32,239,620 | 1923.....   | 59,327,961 |
| 1870.....               | 5,369,103  | 1911.....   | 34,770,386 | 1924.....   | 64,245,811 |
| 1875.....               | 6,611,416  | 1912.....   | 39,526,755 | 1925.....   | 65,837,254 |
| 1880.....               | 6,681,025  | 1913.....   | 40,133,351 | 1926.....   | 67,241,344 |
| 1885.....               | 9,191,895  | 1914.....   | 39,110,439 | 1927.....   | 69,940,351 |
| 1890.....               | 10,908,987 | 1915.....   | 37,817,474 | 1928.....   | 72,695,422 |
| 1895.....               | 13,128,483 | 1916.....   | 40,405,037 | 1929.....   | 70,809,603 |
| 1900.....               | 17,425,472 | 1917.....   | 44,139,978 | 1930.....   | 68,846,366 |
| 1905.....               | 25,050,966 | 1918.....   | 42,000,543 | 1931.....   | 69,820,422 |
| 1906.....               | 27,399,194 | 1919.....   | 46,799,877 | 1932.....   | 68,683,324 |
| 1907 <sup>1</sup> ..... | 28,359,618 | 1920.....   | 53,118,053 | 1933.....   | 68,113,501 |
| 1908 <sup>1</sup> ..... | 28,927,248 | 1921.....   | 58,576,775 | 1934.....   | 66,673,219 |
| 1909 <sup>1</sup> ..... | 29,867,973 | 1922.....   | 58,292,920 |             |            |

<sup>1</sup> At Mar. 31.



### Section 3.—Loan and Trust Companies.

Business such as that now transacted by loan and trust companies was first carried on by an incorporated Canadian company in 1844, when the Lambton Loan and Investment Co. was established, while the Montreal Building Society was incorporated by c. 94 of the Statutes of 1845. In order to legalize and encourage such operations in Upper Canada, an Act was passed by the Canadian Legislature in 1846, followed in 1847 and 1849 by Acts in New Brunswick and Nova Scotia respectively. These early companies were termed building societies; their activities comprised mainly the lending of money on the security of real estate and also the lending of money to members without their being liable to the contingency of losses or profits in the business of the society. In addition to these operations, such companies were authorized by an Act of 1859 to "borrow money to a limited extent". Later, by the Building Societies Act of 1874, authority was given to receive money on deposit and to issue debentures, subject to certain restrictions as to amounts of deposits.

The number of loan and savings societies in operation and making returns to the Government at Confederation was 19, with an aggregate paid-up capital of \$2,110,403 and deposits of \$577,299. Rapid increases in the number of companies and total volume of business resulted from subsequent legislation until in 1899 102 companies (including trust companies) made returns, showing capital stock paid up of \$47,337,544, reserve funds of \$9,923,728 and deposits of \$19,466,676; total liabilities had increased from \$3,233,985 to \$148,143,496 between 1867 and 1899. By 1913 the number of companies had declined, through amalgamations and absorptions, to 74 (including 16 trust companies) with a combined paid-up capital of \$68,091,042, reserves of \$35,959,342, deposits of \$32,681,806 and total liabilities of \$478,658,228.

The laws relating to trust and loan companies were revised by the Loan and Trust Companies Acts of 1914 (4-5 Geo. V., cc. 40 and 55), with the result that the statistics of provincially incorporated loan and trust companies ceased to be collected. The statistics of Tables 31 and 32 refer only to those companies operating under Dominion charter, except that, beginning in 1925, the statistics of loan companies and trust companies incorporated by the province of Nova Scotia, and brought by the laws of that province under the examination of the Dominion Department of Insurance, have been included. Also, since 1922 provincially incorporated loan and trust companies have made voluntary returns of their statistics to the Dominion Department of Insurance, so that all-Canadian totals are again available for recent years. As indicating the progress of the aggregate of loan company business in Canada, it may be stated that the book value of the assets of all loan companies rose from \$188,637,298 in 1922 to \$213,649,794 in 1931, although declining slightly to \$205,791,934 in 1933. The total assets in the hands of the trust companies increased from \$805,689,070 in 1922 to \$2,553,694,019 in 1933. The latter figure included \$2,328,615,120 of "estates, trusts and agency funds". (Table 30A.)

**Functions of Loan Companies.**—The principal function of loan companies is the lending of funds on first mortgage security, the money thus made available for development purposes being secured mainly by the sale of debentures to the investing public and by savings department deposits. Of the loan companies operating under provincial charters, the majority conduct loan, savings and mortgage business, generally in the more prosperous farming communities.

**Functions of Trust Companies.**—Trust companies act as executors, trustees and administrators under wills or by appointment, as trustees under marriage or other settlements, as agents or attorneys in the management of the estates of the living, as guardians of minor or incapable persons, as financial agents for municipalities and companies and, where so appointed, as authorized trustees in bankruptcy. Some companies receive deposits, but the lending of actual trust funds is restricted by law. The figures of Tables 30 and 30A are of particular interest in the case of trust companies, which, on account of the nature of their functions, are mainly provincial institutions, since their chief duties are intimately connected with the matter of probate, which lies within the sole jurisdiction of the provinces.

**30.—Summary Statistics of the Operations of Dominion and Provincial Loan and Trust Companies in Canada, as at Dec. 31, 1932.**

LOAN COMPANIES.

| Item.                                  | Provincial Companies. | Dominion Companies. | Total.      |
|----------------------------------------|-----------------------|---------------------|-------------|
|                                        | \$                    | \$                  | \$          |
| Book values of assets.....             | 67,630,093            | 143,566,386         | 211,196,479 |
| Liabilities to the public.....         | 32,474,829            | 107,758,082         | 140,232,911 |
| Capital Stock—                         |                       |                     |             |
| Authorized.....                        | 54,156,533            | 60,150,000          | 114,306,533 |
| Subscribed.....                        | 24,567,502            | 27,247,600          | 51,815,102  |
| Paid-up.....                           | 22,102,192            | 19,506,063          | 41,608,255  |
| Reserve and contingency funds.....     | 12,560,918            | 14,739,341          | 27,300,259  |
| Other liabilities to shareholders..... | 3,305,227             | 1,558,149           | 4,863,376   |
| Total liabilities to shareholders..... | 37,968,337            | 35,803,553          | 73,771,890  |
| Net profits realized during year.....  | 1,105,476             | 1,699,005           | 2,804,481   |

TRUST COMPANIES.

| Assets—                               |               |             |               |
|---------------------------------------|---------------|-------------|---------------|
| Company funds.....                    | 66,089,950    | 15,361,656  | 81,451,606    |
| Guaranteed funds.....                 | 118,672,237   | 25,222,913  | 143,895,150   |
| Estates, trusts and agency funds..... | 2,061,933,697 | 215,702,235 | 2,277,635,932 |
| Totals.....                           | 2,246,695,884 | 256,236,804 | 2,502,982,688 |
| Capital Stock—                        |               |             |               |
| Authorized.....                       | 73,480,000    | 22,350,000  | 95,830,000    |
| Subscribed.....                       | 32,242,072    | 11,951,640  | 44,193,712    |
| Paid-up.....                          | 29,082,987    | 10,601,822  | 39,684,809    |
| Reserve and contingency funds.....    | 20,439,706    | 3,461,760   | 23,901,466    |
| Unappropriated surpluses.....         | 2,471,918     | 358,183     | 2,830,101     |
| Net profits realized during year..... | 3,171,013     | 326,327     | 3,497,340     |

**30A.—Summary Statistics of the Operations of Dominion and Provincial Loan and Trust Companies in Canada, as at Dec. 31, 1933.**

LOAN COMPANIES.

| Item.                                  | Provincial Companies. | Dominion Companies. | Total.      |
|----------------------------------------|-----------------------|---------------------|-------------|
|                                        | \$                    | \$                  | \$          |
| Book value of assets.....              | 67,231,553            | 138,560,381         | 205,791,934 |
| Liabilities to the public.....         | 29,751,516            | 101,666,653         | 131,418,169 |
| Capital Stock—                         |                       |                     |             |
| Authorized.....                        | 51,211,477            | 61,150,000          | 112,361,477 |
| Subscribed.....                        | 26,585,500            | 27,714,400          | 54,299,900  |
| Paid-up.....                           | 22,643,929            | 20,230,120          | 42,874,049  |
| Reserve and contingency funds.....     | 12,253,336            | 15,205,070          | 27,458,406  |
| Other liabilities to shareholders..... | 505,475               | 1,430,585           | 1,936,060   |
| Total liabilities to shareholders..... | 35,402,740            | 36,865,775          | 72,268,515  |
| Net profits realized during year.....  | 962,864               | 1,423,041           | 2,385,905   |

**30A.—Summary Statistics of the Operations of Dominion and Provincial Loan and Trust Companies in Canada, as at Dec. 31, 1933—concluded.**

TRUST COMPANIES.

| Item.                                 | Provincial Companies. | Dominion Companies. | Total.               |
|---------------------------------------|-----------------------|---------------------|----------------------|
|                                       | \$                    | \$                  | \$                   |
| <b>Assets—</b>                        |                       |                     |                      |
| Company funds.....                    | 63,314,856            | 15,351,418          | 78,666,274           |
| Guaranteed funds.....                 | 119,015,917           | 27,396,708          | 146,412,625          |
| Estates, trusts and agency funds..... | 2,103,130,969         | 225,484,151         | 2,328,615,120        |
| <b>Totals.....</b>                    | <b>2,285,461,742</b>  | <b>268,232,277</b>  | <b>2,553,694,019</b> |
| <b>Capital Stock—</b>                 |                       |                     |                      |
| Authorized.....                       | 73,575,000            | 22,350,000          | 95,925,000           |
| Subscribed.....                       | 31,577,768            | 11,968,340          | 43,546,108           |
| Paid-up.....                          | 27,751,407            | 10,630,335          | 38,381,742           |
| Reserve and contingency funds.....    | 18,588,111            | 3,555,585           | 22,143,696           |
| Unappropriated surpluses.....         | 2,847,548             | 354,912             | 3,202,460            |
| Net profits realized during year..... | 2,611,359             | 439,081             | 3,050,440            |

**31.—Classification of Liabilities and Assets of Loan Companies Chartered by the Dominion Government, as at Dec. 31, 1914-33.**

LIABILITIES.

| Year.                   | Liabilities to Shareholders. |                |                     | Liabilities to the Public.      |                         |            |                           |                     |
|-------------------------|------------------------------|----------------|---------------------|---------------------------------|-------------------------|------------|---------------------------|---------------------|
|                         | Capital Paid up.             | Reserve Funds. | Total. <sup>1</sup> | Debentures and Debenture Stock. |                         | Deposits.  | Interest Due and Accrued. | Total. <sup>2</sup> |
|                         |                              |                |                     | Canada.                         | Elsewhere and Sundries. |            |                           |                     |
|                         |                              |                |                     |                                 |                         |            |                           |                     |
| \$                      | \$                           | \$             | \$                  | \$                              | \$                      | \$         | \$                        |                     |
| 1914.....               | 19,238,512                   | 9,374,363      | 29,375,689          | 6,688,124                       | 26,101,702              | 8,104,072  | 318,504                   | 41,212,402          |
| 1915.....               | 19,401,856                   | 9,878,266      | 30,155,708          | 6,764,836                       | 25,538,301              | 9,193,194  | 340,627                   | 41,836,958          |
| 1916.....               | 19,673,934                   | 10,319,176     | 29,993,110          | 6,889,946                       | 24,653,657              | 8,987,720  | 347,864                   | 40,879,187          |
| 1917.....               | 19,813,217                   | 10,705,215     | 30,518,432          | 7,075,081                       | 22,430,846              | 8,934,825  | 351,420                   | 38,792,172          |
| 1918.....               | 19,945,858                   | 10,938,193     | 30,884,051          | 7,442,982                       | 23,501,565              | 7,802,539  | 364,087                   | 39,111,173          |
| 1919.....               | 20,191,612                   | 11,923,234     | 32,114,846          | —                               | —                       | 9,347,096  | —                         | 42,405,175          |
| 1920.....               | 24,062,521                   | 13,442,364     | 39,110,640          | 16,982,032                      | 18,451,054              | 15,257,840 | —                         | 51,302,620          |
| 1921.....               | 25,750,966                   | 14,278,619     | 40,629,689          | 17,682,083                      | 20,265,766              | 15,868,926 | 480,547                   | 54,651,433          |
| 1922.....               | 25,241,600                   | 14,740,834     | 40,013,363          | 20,360,480                      | 22,390,990              | 16,910,558 | 499,661                   | 60,386,903          |
| 1923.....               | 24,939,622                   | 14,879,516     | 41,239,712          | 22,667,861                      | 24,315,010              | 15,854,029 | 577,460                   | 63,600,093          |
| 1924.....               | 22,592,057                   | 13,734,681     | 37,122,138          | 25,426,434                      | 21,901,431              | 15,970,077 | 543,131                   | 63,989,554          |
| 1925 <sup>a</sup> ..... | 23,632,474                   | 14,555,603     | 38,461,375          | 30,052,139                      | 21,600,001              | 18,660,122 | 538,755                   | 71,066,398          |
| 1926 <sup>b</sup> ..... | 23,498,336                   | 14,861,280     | 38,977,937          | 36,613,088                      | 21,572,810              | 21,316,150 | 663,987                   | 80,447,480          |
| 1927 <sup>c</sup> ..... | 20,699,710                   | 14,867,432     | 35,596,121          | 47,818,386                      | 19,965,321              | 27,019,323 | 868,694                   | 95,895,897          |
| 1928 <sup>d</sup> ..... | 20,139,831                   | 14,113,871     | 36,179,771          | 51,269,133                      | 15,292,362              | 30,671,257 | 940,528                   | 98,453,583          |
| 1929 <sup>e</sup> ..... | 20,292,840                   | 14,438,022     | 35,806,640          | 52,857,277                      | 14,813,287              | 29,602,789 | 942,178                   | 98,847,526          |
| 1930 <sup>f</sup> ..... | 20,475,116                   | 14,632,128     | 35,799,585          | 58,058,682                      | 15,063,313              | 31,581,913 | 978,891                   | 106,378,655         |
| 1931 <sup>g</sup> ..... | 20,680,307                   | 14,753,181     | 36,078,600          | 63,158,214                      | 14,837,565              | 30,823,662 | 1,027,677                 | 110,779,994         |
| 1932 <sup>h</sup> ..... | 19,506,063                   | 14,739,341     | 35,803,553          | 61,959,437                      | 14,858,798              | 29,418,924 | 989,303                   | 107,758,082         |
| 1933 <sup>i</sup> ..... | 20,230,120                   | 15,205,070     | 36,865,775          | 60,483,299                      | 15,161,505              | 24,287,270 | 996,132                   | 101,666,653         |

For footnotes see end of table, p. 996.

### 31.—Classification of Liabilities and Assets of Loan Companies Chartered by the Dominion Government, as at Dec. 31, 1914-33—concluded.

## ASSETS.

| Year.                   | Real Estate. <sup>3</sup> | Mortgages on Real Estate. | Collateral Loans. | Bonds, Debentures, Stocks and other Company Property. | Cash on hand and in Banks | Interest, Rents, etc., Due and Accrued. | Total. <sup>4</sup> |
|-------------------------|---------------------------|---------------------------|-------------------|-------------------------------------------------------|---------------------------|-----------------------------------------|---------------------|
|                         | \$                        | \$                        | \$                | \$                                                    | \$                        | \$                                      | \$                  |
| 1914.....               | 1,763,892                 | 53,710,084                | —                 | 11,301,869                                            | 3,220,803                 | 591,443                                 | 70,588,091          |
| 1915.....               | 1,779,030                 | 52,807,357                | —                 | 12,793,309                                            | 3,933,004                 | 679,966                                 | 71,992,666          |
| 1916.....               | 1,485,267                 | 51,981,926                | —                 | 13,482,805                                            | 3,241,053                 | 681,246                                 | 70,872,297          |
| 1917.....               | 1,577,576                 | 49,712,872                | —                 | 14,156,080                                            | 3,478,220                 | 751,475                                 | 69,676,223          |
| 1918.....               | 1,512,520                 | 48,293,988                | —                 | 16,640,017                                            | 3,023,839                 | 524,664                                 | 69,995,028          |
| 1919.....               | —                         | —                         | —                 | —                                                     | 2,838,636                 | 261,810                                 | 74,520,021          |
| 1920.....               | 4,753,049                 | 63,725,084                | 1,750,128         | 16,593,932                                            | 3,363,877                 | 1,658                                   | 90,413,261          |
| 1921.....               | 4,979,779                 | 67,147,513                | 1,618,865         | 15,328,797                                            | 4,568,984                 | 2,790,348                               | 96,698,810          |
| 1922.....               | 5,309,854                 | 69,824,985                | 1,916,976         | 16,967,305                                            | 4,800,649                 | 2,989,460                               | 102,462,090         |
| 1923.....               | 5,515,170                 | 73,858,726                | 1,772,148         | 16,445,635                                            | 3,467,822                 | 3,353,822                               | 104,866,102         |
| 1924.....               | 4,035,532                 | 71,468,506                | 1,722,803         | 18,568,856                                            | 3,636,592                 | 2,470,756                               | 101,919,837         |
| 1925 <sup>5</sup> ..... | 3,982,921                 | 79,106,407                | 1,532,366         | 20,210,387                                            | 3,442,928                 | 2,180,700                               | 110,638,667         |
| 1926 <sup>5</sup> ..... | 4,150,307                 | 89,873,578                | 1,161,886         | 18,426,169                                            | 4,284,648                 | 2,274,535                               | 120,321,095         |
| 1927 <sup>5</sup> ..... | 3,999,808                 | 102,501,193               | 1,585,891         | 18,884,434                                            | 5,672,479                 | 2,020,087                               | 134,669,734         |
| 1928 <sup>5</sup> ..... | 4,172,704                 | 105,121,365               | 2,610,947         | 17,874,808                                            | 3,258,762                 | 1,746,138                               | 134,793,527         |
| 1929 <sup>5</sup> ..... | 6,156,227                 | 103,806,670               | 2,700,720         | 17,654,463                                            | 3,195,801                 | 1,834,297                               | 135,358,095         |
| 1930 <sup>5</sup> ..... | 7,069,914                 | 105,503,098               | 3,019,202         | 20,834,907                                            | 4,313,669                 | 2,559,065                               | 143,308,774         |
| 1931 <sup>5</sup> ..... | 8,112,501                 | 106,628,854               | 1,797,490         | 23,430,382                                            | 3,295,037                 | 3,529,451                               | 147,921,556         |
| 1932 <sup>5</sup> ..... | 8,271,679                 | 102,661,879               | 1,135,726         | 21,521,472                                            | 4,549,735                 | 4,366,366                               | 143,566,386         |
| 1933 <sup>5</sup> ..... | 8,860,817                 | 98,357,741                | 1,468,250         | 18,767,937                                            | 4,639,653                 | 5,437,535                               | 138,560,381         |

<sup>1</sup> Includes other liabilities to shareholders.      <sup>2</sup> Includes other liabilities to the public.<sup>3</sup> Book value of real estate for companies' use and other real estate.      <sup>4</sup> Includes other assets.<sup>5</sup> Includes statistics of loan companies chartered by the Government of Nova Scotia but inspected by the Dominion Department of Insurance.

### 32.—Classification of Liabilities and Assets of Trust Companies Chartered by the Dominion Government, as at Dec. 31, 1914-33.

## COMPANY FUNDS—LIABILITIES.

| Year.                   | To Shareholders. |                |                    |            | To the Public.              | Total.     |
|-------------------------|------------------|----------------|--------------------|------------|-----------------------------|------------|
|                         | Capital Paid up. | Reserve Funds. | Other Liabilities. | Total.     | Taxes, Borrowed Money, etc. |            |
|                         | \$               | \$             | \$                 | \$         | \$                          | \$         |
| 1914.....               | 6,051,146        | 2,541,413      | 202,427            | 8,794,986  | 1,948,414                   | 10,743,400 |
| 1915.....               | 5,307,128        | 1,159,479      | 233,738            | 6,700,345  | 606,005                     | 7,306,350  |
| 1916.....               | 5,673,070        | 1,245,589      | 287,214            | 7,206,473  | 620,470                     | 7,826,943  |
| 1917.....               | 5,297,130        | 1,275,789      | 352,163            | 6,925,072  | 731,220                     | 7,656,292  |
| 1918.....               | 6,266,203        | 1,477,617      | 415,938            | 8,159,758  | 676,379                     | 8,836,137  |
| 1919.....               | 7,356,474        | 1,643,464      | 391,625            | 9,391,563  | 616,378                     | 10,007,941 |
| 1920.....               | 7,465,376        | 1,908,753      | 391,975            | 9,766,104  | 561,265                     | 10,327,369 |
| 1921.....               | 7,532,777        | 1,746,579      | 167,303            | 9,446,659  | 499,264                     | 9,945,923  |
| 1922.....               | 7,678,401        | 1,912,123      | 46,068             | 9,636,592  | 329,827                     | 9,966,419  |
| 1923.....               | 7,772,749        | 1,908,887      | 5,674              | 9,687,310  | 832,724                     | 10,520,034 |
| 1924.....               | 8,796,479        | 1,918,567      | 169,390            | 10,884,436 | 766,783                     | 11,651,219 |
| 1925 <sup>1</sup> ..... | 9,523,618        | 2,261,890      | 184,153            | 11,969,661 | 232,813                     | 12,202,474 |
| 1926 <sup>1</sup> ..... | 9,666,449        | 2,313,464      | 393,932            | 12,373,845 | 580,380                     | 12,954,225 |
| 1927 <sup>1</sup> ..... | 9,824,031        | 2,653,673      | 443,377            | 12,921,081 | 571,279                     | 13,492,360 |
| 1928 <sup>1</sup> ..... | 10,424,249       | 2,877,766      | 549,905            | 13,851,920 | 741,364                     | 14,593,284 |
| 1929 <sup>1</sup> ..... | 10,512,879       | 3,325,020      | 257,288            | 14,095,187 | 325,914                     | 14,421,101 |
| 1930 <sup>1</sup> ..... | 10,260,025       | 3,431,538      | 718,240            | 14,409,803 | 294,897                     | 14,704,700 |
| 1931 <sup>1</sup> ..... | 10,493,608       | 3,478,889      | 629,215            | 14,601,712 | 464,719                     | 15,066,431 |
| 1932 <sup>1</sup> ..... | 10,601,822       | 3,461,760      | 457,518            | 14,521,100 | 368,279                     | 14,889,379 |
| 1933 <sup>1</sup> ..... | 10,630,336       | 3,555,585      | 444,302            | 14,630,223 | 206,372                     | 14,836,595 |

For footnotes see end of table, p. 997.



32.—Classification of Liabilities and Assets of Trust Companies Chartered by the Dominion Government, as at Dec. 31, 1914-33—concluded.

COMPANY FUNDS—ASSETS.

| Year.                  | Loans.                       |                               |                           | Real Estate. | Government, Municipal and School Securities Owned. | Stocks. | Cash on hand and in Banks. | All other Assets belonging to the Companies. | Total Assets of the Companies. |
|------------------------|------------------------------|-------------------------------|---------------------------|--------------|----------------------------------------------------|---------|----------------------------|----------------------------------------------|--------------------------------|
|                        | On Real Estate, First Liens. | On Real Estate, Second Liens. | On Stocks and Securities. |              |                                                    |         |                            |                                              |                                |
|                        | \$                           | \$                            | \$                        | \$           | \$                                                 | \$      | \$                         | \$                                           | \$                             |
| 1914....               | 5,189,797                    | 113,095                       | 557,625                   | —            | 787,400                                            | —       | 179,928                    | 3,033,756                                    | 9,861,601                      |
| 1915....               | 3,972,520                    | 102,395                       | 647,524                   | —            | 576,760                                            | —       | 172,448                    | 1,529,522                                    | 7,301,169                      |
| 1916....               | 3,906,986                    | 544,747                       | 374,392                   | —            | 1,116,110                                          | —       | 266,964                    | 1,585,513                                    | 7,794,712                      |
| 1917....               | 3,993,484                    | 297,387                       | 253,781                   | —            | 1,145,815                                          | —       | 173,130                    | 1,789,364                                    | 7,652,961                      |
| 1918....               | 3,933,962                    | 101,784                       | 294,472                   | —            | 1,829,000                                          | —       | 724,689                    | 1,936,365                                    | 8,830,272                      |
| 1919....               | 4,432,455                    | 557,171                       | 496,769                   | —            | 2,170,618                                          | —       | 706,763                    | 1,635,773                                    | 9,999,549                      |
| 1920....               | 4,736,064                    | —                             | 512,800                   | 701,564      | 2,500,942                                          | 349,294 | 576,125                    | 847,463                                      | 10,224,252                     |
| 1921....               | 4,408,914                    | —                             | 344,302                   | 908,618      | 2,400,914                                          | 263,779 | 603,618                    | 1,317,735                                    | 10,237,930                     |
| 1922....               | 5,254,434                    | —                             | 391,475                   | 973,022      | 1,584,234                                          | 264,186 | 473,687                    | 1,412,205                                    | 10,353,243                     |
| 1923....               | 5,402,752                    | —                             | 375,129                   | 1,048,682    | 1,656,304                                          | 292,564 | 481,672                    | 1,573,406                                    | 10,830,509                     |
| 1924....               | 5,114,753                    | —                             | 446,001                   | 1,551,673    | 1,598,971                                          | 336,818 | 524,368                    | 2,453,675                                    | 12,056,259                     |
| 1925 <sup>1</sup> .... | 5,143,123                    | —                             | 618,250                   | 1,969,737    | 2,323,064                                          | 432,956 | 203,431                    | 1,763,355                                    | 12,453,916                     |
| 1926 <sup>1</sup> .... | 5,450,907                    | —                             | 580,128                   | 2,091,322    | 2,318,344                                          | 477,917 | 705,064                    | 1,571,595                                    | 13,195,277                     |
| 1927 <sup>1</sup> .... | 5,668,574                    | —                             | 977,514                   | 2,140,344    | 1,993,823                                          | 494,083 | 804,469                    | 1,603,906                                    | 13,682,713                     |
| 1928 <sup>1</sup> .... | 5,651,201                    | —                             | 1,156,698                 | 2,148,354    | 2,808,630                                          | 495,094 | 917,019                    | 1,589,288                                    | 14,766,284                     |
| 1929 <sup>1</sup> .... | 5,652,084                    | —                             | 1,121,536                 | 1,959,581    | 3,228,722                                          | 425,077 | 659,466                    | 1,623,031                                    | 14,669,497                     |
| 1930 <sup>1</sup> .... | 5,573,596                    | —                             | 1,183,298                 | 2,049,285    | 3,176,348                                          | 458,392 | 732,025                    | 1,779,338                                    | 14,952,282                     |
| 1931 <sup>1</sup> .... | 6,034,794                    | —                             | 1,035,169                 | 2,140,792    | 3,211,183                                          | 488,995 | 551,595                    | 1,996,819                                    | 15,459,347                     |
| 1932 <sup>1</sup> .... | 6,057,336                    | —                             | 628,586                   | 2,306,950    | 3,105,079                                          | 447,940 | 773,537                    | 2,042,228                                    | 15,361,656                     |
| 1933 <sup>1</sup> .... | 5,413,800                    | —                             | 706,146                   | 2,655,924    | 3,418,374                                          | 451,552 | 624,363                    | 2,081,259                                    | 15,351,418                     |

TRUST FUNDS—LIABILITIES.

| Year.                   | Guaranteed Funds.       |                           |                         | Estate, Trust and Agency Funds. | Total.                   |
|-------------------------|-------------------------|---------------------------|-------------------------|---------------------------------|--------------------------|
|                         | Principal. <sup>2</sup> | Interest Due and Accrued. | Total.                  |                                 |                          |
|                         | \$                      | \$                        | \$                      | \$                              | \$                       |
| 1914.....               | 8,560,468               | —                         | 8,560,468               | 29,832,343                      | 38,392,811               |
| 1915.....               | 9,727,099               | —                         | 9,727,099               | 31,002,934                      | 40,730,033               |
| 1916.....               | 10,405,318              | —                         | 10,405,318              | 36,756,902                      | 47,162,220               |
| 1917.....               | 11,149,958              | —                         | 11,149,958              | 38,141,389                      | 49,291,347               |
| 1918.....               | 12,743,379              | —                         | 12,743,379              | 56,194,857                      | 68,938,236               |
| 1919.....               | 12,704,672              | —                         | 12,704,672              | 52,084,047                      | 64,788,719               |
| 1920.....               | 9,339,070               | 135,971                   | 9,475,041               | 57,225,303                      | 66,700,344               |
| 1921.....               | 8,424,128               | 125,514                   | 8,549,642               | 79,252,639                      | 87,802,281               |
| 1922.....               | 8,473,720               | 126,868                   | 8,600,588               | 92,449,298                      | 101,049,886              |
| 1923.....               | 10,306,767              | 178,096                   | 10,484,863              | 102,764,835                     | 113,249,698              |
| 1924.....               | 14,027,120              | 133,583                   | 14,160,703              | 123,082,289                     | 137,242,992              |
| 1925 <sup>1</sup> ..... | 15,897,339              | —                         | 15,897,339              | 131,420,502                     | 147,317,841              |
| 1926 <sup>1</sup> ..... | 17,979,412              | —                         | 17,979,412              | 139,777,235                     | 157,756,647              |
| 1927 <sup>1</sup> ..... | 22,464,753              | —                         | 22,464,753              | 161,040,061                     | 183,504,814              |
| 1928 <sup>1</sup> ..... | 24,105,724              | —                         | 24,105,724              | 202,655,185                     | 226,760,909              |
| 1929 <sup>1</sup> ..... | 24,465,263              | —                         | 24,465,263              | 210,005,726                     | 234,470,989              |
| 1930 <sup>1</sup> ..... | 26,408,829              | —                         | 26,408,829              | 205,282,593                     | 231,691,422              |
| 1931 <sup>1</sup> ..... | 25,718,221 <sup>3</sup> | —                         | 25,718,221 <sup>3</sup> | 215,698,469 <sup>3</sup>        | 241,416,690 <sup>3</sup> |
| 1932 <sup>1</sup> ..... | 25,222,913              | —                         | 25,222,913              | 215,702,235                     | 240,925,148              |
| 1933 <sup>1</sup> ..... | 27,396,708              | —                         | 27,396,708              | 225,484,151                     | 252,880,859              |

<sup>1</sup> Includes statistics of trust companies chartered by the Government of Nova Scotia but inspected by the Dominion Department of Insurance.

<sup>2</sup> Includes money in trust for investment amounting to \$2,562,455 in 1914, \$3,113,170 in 1915, \$3,799,149 in 1916, \$3,443,682 in 1917, and \$5,170,463 in 1918; corresponding amounts are included under the heading "Estate, trust and agency funds" for the years 1920 to 1933. The figures for 1919 are not available.

<sup>3</sup> Revised since the publication of the 1933 Year Book.

### Section 4.—Sales of Canadian Bonds.

Interesting aspects of public financing and of the investment of capital in Canadian development during the twentieth century are illustrated by the sales of Canadian bonds since 1911 shown in Table 33. (The figures are reproduced from the *Monetary Times Annual*, 1935.) In the first part of this table, the bonds sold in each year are divided according to whether the financing was for Dominion or Provincial Governments, or for municipalities, railways or other corporations, while in the second part of the table the sales in each year are distributed according to sales in Canada, the United States and the United Kingdom.

The total sales of Canadian bonds naturally reached a very high mark toward the close of the War owing to the Dominion Government financing required to cover the war expenditures. However, the total sales were greater in 1931 than in any other year, owing largely to the Dominion Government's conversion loans.

Dominion Government financing through bond sales since 1907 may be divided into three periods: the first from 1908 to 1914, when the money was required largely for internal development of the country, public works and Government railways; the second from 1915 to 1919, when war expenditures required very large borrowings; and the third since the War, when the issues have been largely required for refunding former loans at lower interest rates and for expenditures in connection with public works and railways.

Provincial bond issues have been on a much larger scale since the War than formerly, probably due to the development of provincially-owned public utilities and of improved highways. Sales of the bonds of Canadian municipalities, on the other hand, were greater in 1913, toward the end of the "land boom", than they have been in any other year, although sales in 1930 almost reached the record. However, allowing for the increased population in cities and towns, there has not been the same marked increase in the average annual sales of municipal bonds in the period since the War, as compared with the period before the War, that is noticeable in the case of provincial bonds.

Sales of corporation bonds, which from 1926 to 1930 had averaged over \$257,000,000 per year, dropped to \$10,550,000 in 1932, and to \$4,385,000 in 1933, this being largely due to the uncertainty of the industrial outlook. Railway bonds showed a somewhat similar decline to \$12,500,000 in 1932, and to only \$1,000,000 in 1933. In 1934 substantial recoveries were shown in both classes.

A very striking change has taken place during the present century in the market in which Canadian bond issues are principally sold. Prior to the War, a great part of the capital required for Canadian development came from the United Kingdom, and the major portion of Canadian bond issues was sold there. The outbreak of war temporarily eliminated that market, and Canadians turned largely to the United States for outside capital. However, the great increase in wealth during and since the War has enabled a much greater proportion of public and industrial financing to be done at home, and beginning with the Victory Loan campaigns, Canadians not only learned how to invest their money in bonds, but had the necessary funds to invest on a large scale in bond issues. These facts are reflected by the figures in Table 33 showing that since 1915 a greatly increased proportion of the total issues of Canadian bonds has been sold within Canada. Thus, in 1934, 83 p.c. of all bonds issued were sold in Canada, 8 p.c. in the United States and 9 p.c. in the United Kingdom.

### 33.—Sales of Canadian Bonds, by Class of Bond and Country of Sale, calendar years 1911-34.

(From the *Monetary Times Annual*. Figures for 1904-10 inclusive will be found at p. 921 of the 1933 Year Book.)

#### CLASSES OF BONDS.

| Calendar Year. | Dominion.   | Provincial. | Municipal.  | Railway.    | Corporation. | Total.        |
|----------------|-------------|-------------|-------------|-------------|--------------|---------------|
|                | \$          | \$          | \$          | \$          | \$           | \$            |
| 1911.....      | -           | 11,375,000  | 30,295,838  | 85,611,265  | 139,530,885  | 266,812,988   |
| 1912.....      | 25,000,000  | 25,639,700  | 47,159,288  | 45,014,925  | 130,124,069  | 272,937,982   |
| 1913.....      | 34,066,666  | 36,850,000  | 110,600,936 | 65,895,880  | 126,381,813  | 373,795,295   |
| 1914.....      | 48,665,666  | 56,100,000  | 79,133,996  | 59,719,000  | 29,315,405   | 272,935,067   |
| 1915.....      | 170,000,000 | 48,105,000  | 67,393,328  | 33,675,000  | 15,933,000   | 335,106,328   |
| 1916.....      | 175,000,000 | 33,173,000  | 93,977,542  | 22,240,000  | 32,492,000   | 356,882,542   |
| 1917.....      | 650,000,000 | 15,300,000  | 24,198,079  | 17,700,000  | 18,850,000   | 728,039,079   |
| 1918.....      | 689,013,000 | 18,605,000  | 43,570,361  | 19,600,000  | 4,565,000    | 775,356,361   |
| 1919.....      | 753,000,000 | 52,374,000  | 26,274,089  | 35,359,133  | 42,930,000   | 909,937,222   |
| 1920.....      | -           | 125,993,000 | 56,371,391  | 96,500,000  | 46,050,276   | 324,914,667   |
| 1921.....      | -           | 160,745,400 | 84,776,931  | 96,733,000  | 61,335,825   | 403,591,156   |
| 1922.....      | 200,000,000 | 114,918,000 | 87,088,877  | 13,505,100  | 76,885,500   | 492,397,477   |
| 1923.....      | 200,000,000 | 106,279,000 | 83,686,422  | 27,500,000  | 97,352,320   | 514,817,742   |
| 1924.....      | 175,000,000 | 89,640,000  | 88,731,612  | 157,375,000 | 69,179,180   | 579,925,792   |
| 1925.....      | 169,333,333 | 106,970,000 | 46,218,987  | 40,925,195  | 120,085,833  | 483,533,348   |
| 1926.....      | 105,000,000 | 76,633,267  | 65,020,194  | 34,500,000  | 250,919,200  | 532,072,661   |
| 1927.....      | 45,000,000  | 114,795,500 | 72,742,114  | 80,003,000  | 289,680,067  | 602,217,681   |
| 1928.....      | -           | 92,992,500  | 27,120,588  | 48,396,000  | 285,083,000  | 453,592,088   |
| 1929.....      | -           | 119,960,500 | 98,667,809  | 199,200,000 | 243,330,600  | 661,158,909   |
| 1930.....      | 140,000,000 | 160,004,000 | 109,648,063 | 137,238,000 | 220,335,000  | 767,245,063   |
| 1931.....      | 858,109,300 | 126,239,205 | 85,290,066  | 121,750,000 | 59,432,000   | 1,250,820,571 |
| 1932.....      | 226,250,000 | 128,217,000 | 95,600,632  | 12,500,000  | 10,550,000   | 473,117,632   |
| 1933.....      | 440,000,000 | 82,889,000  | 41,282,513  | 1,000,000   | 4,385,000    | 569,556,513   |
| 1934.....      | 400,000,000 | 139,868,000 | 24,690,132  | 32,500,000  | 40,902,696   | 637,960,828   |

#### DISTRIBUTION OF SALES, BY COUNTRIES.

| Calendar Year. | Sold in Canada. | Sold in United States. | Sold in United Kingdom. | Total.        |
|----------------|-----------------|------------------------|-------------------------|---------------|
|                | \$              | \$                     | \$                      | \$            |
| 1911.....      | 44,989,878      | 17,553,967             | 204,269,143             | 266,812,988   |
| 1912.....      | 37,735,182      | 30,966,406             | 204,236,394             | 272,937,982   |
| 1913.....      | 45,603,753      | 50,720,762             | 277,470,780             | 373,795,295   |
| 1914.....      | 32,999,860      | 53,944,548             | 185,990,659             | 272,935,067   |
| 1915.....      | 115,325,214     | 178,606,114            | 41,175,000              | 335,106,328   |
| 1916.....      | 102,938,778     | 206,943,764            | 47,000,000              | 356,882,542   |
| 1917.....      | 546,330,714     | 174,708,365            | 5,000,000               | 726,039,079   |
| 1918.....      | 727,446,361     | 33,310,000             | 14,600,000              | 775,356,361   |
| 1919.....      | 705,385,419     | 199,446,670            | 5,105,133               | 909,937,222   |
| 1920.....      | 101,830,667     | 223,084,000            | -                       | 324,914,667   |
| 1921.....      | 213,326,543     | 178,113,613            | 12,151,000              | 403,591,156   |
| 1922.....      | 250,184,984     | 242,212,493            | -                       | 492,397,477   |
| 1923.....      | 427,868,742     | 84,517,000             | 2,432,000               | 514,817,742   |
| 1924.....      | 336,758,887     | 239,544,405            | 3,622,500               | 579,925,792   |
| 1925.....      | 271,251,682     | 181,870,000            | 30,411,666              | 483,533,348   |
| 1926.....      | 263,862,718     | 259,209,943            | 9,000,000               | 532,072,661   |
| 1927.....      | 373,637,014     | 223,714,000            | 4,866,667               | 602,217,681   |
| 1928.....      | 278,080,088     | 159,512,000            | 16,000,000              | 453,592,088   |
| 1929.....      | 378,395,909     | 263,654,000            | 19,109,000              | 661,158,909   |
| 1930.....      | 368,868,063     | 393,632,000            | 4,745,000               | 767,245,063   |
| 1931.....      | 1,090,800,571   | 155,920,000            | 4,100,000               | 1,250,820,571 |
| 1932.....      | 377,752,632     | 81,015,000             | 14,350,000              | 473,117,632   |
| 1933.....      | 434,556,513     | 60,000,000             | 75,000,000              | 569,556,513   |
| 1934.....      | 529,630,828     | 50,000,000             | 58,330,000              | 637,960,828   |

## Section 5.—Corporation Dividends.

(From the *Financial Post Business Year Book*.)

The 1934 improvement in Canadian business, as indicated by higher corporate earnings, was reflected in the total annual dividend payments of \$185,759,716, compared with \$134,679,359 in 1933, or a gain of 37.9 p.c. Every month of the year except September showed an increase; the then decrease was due to the change of dividend policies of Imperial Oil and International Petroleum, whereby these two organizations went on a semi-annual basis as contrasted to their former quarterly payments. Bonus payments from a few large industrial companies and a number of mining companies, plus initial dividends by some of the new mines, helped to swell the December total far above the 1933 figure. In Table 34 below there is given a six-year record of aggregate monthly dollar payments and yearly totals for all companies paying dividends in Canada:—

34.—Dividend Payments by Canadian Companies, 1929-34.

| Month.             | 1929.              | 1930.              | 1931.              | 1932.              | 1933.              | 1934.              |
|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                    | \$                 | \$                 | \$                 | \$                 | \$                 | \$                 |
| January.....       | 27,263,809         | 30,310,039         | 27,959,397         | 20,400,598         | 13,854,450         | 14,416,545         |
| February.....      | 5,056,962          | 7,946,299          | 5,101,369          | 4,095,424          | 3,335,428          | 3,783,396          |
| March.....         | 14,735,211         | 22,770,591         | 24,376,795         | 18,944,825         | 16,754,000         | 17,267,509         |
| April.....         | 29,615,366         | 32,634,632         | 32,126,789         | 21,273,875         | 11,602,414         | 12,265,579         |
| May.....           | 5,705,616          | 6,580,454          | 5,301,127          | 4,674,523          | 2,931,000          | 4,793,184          |
| June.....          | 25,591,671         | 33,847,306         | 28,899,218         | 19,342,689         | 17,497,407         | 41,938,738         |
| July.....          | 27,606,526         | 29,301,051         | 21,908,004         | 16,008,127         | 12,672,273         | 16,422,866         |
| August.....        | 4,405,879          | 7,037,106          | 4,967,051          | 4,391,902          | 3,260,000          | 4,405,879          |
| September.....     | 22,542,905         | 23,668,503         | 19,765,080         | 16,049,340         | 14,271,323         | 9,731,678          |
| October.....       | 34,179,929         | 35,885,965         | 24,451,599         | 15,919,557         | 11,807,000         | 13,849,280         |
| November.....      | 6,072,009          | 6,738,450          | 4,756,132          | 3,652,381          | 3,656,148          | 4,188,056          |
| December.....      | 35,771,604         | 47,921,152         | 26,738,555         | 20,209,250         | 23,037,916         | 42,638,981         |
| <b>Totals.....</b> | <b>238,547,487</b> | <b>234,641,548</b> | <b>226,351,116</b> | <b>164,962,492</b> | <b>134,679,359</b> | <b>185,759,716</b> |

## Section 6.—Foreign Exchange.

The Canadian dollar, adopted as our currency in 1857, was equivalent to 15/73 of the pound sterling; in other words, the pound was equal to \$4.866 in Canadian currency at par, and remained so, with minor variations between the import and export gold points representing the cost of shipping gold in either direction, until the outbreak of the Great War. Further, during the first eleven years after Confederation, the Canadian dollar was at a premium in the United States, as the United States dollar was not, after the Civil War, redeemable in gold until 1878. From the latter date, the dollar in the two countries was equivalent at par, and the variation was only between the import and export gold points or under \$2 per \$1,000.

At the outbreak of the Great War, both the pound sterling and the Canadian dollar were made inconvertible into gold and fell to a discount in New York, though this discount was "pegged" or kept at a moderate percentage by sales of United States securities previously held in the United Kingdom, borrowing in the United States, and, after the United States entered the War, by arrangements with the United States Government. After the War, the exchanges were "unpegged" about November, 1920, and the British pound went as low as \$3.18 and the Canadian dollar as low as 82 cents in New York. In the course of the next year or two, exchange was



brought practically back to par, and the United Kingdom resumed gold payments in 1925 and Canada on July 1, 1926. From then until 1928 the exchanges were within the gold points, but in 1929 the Canadian dollar again fell to a moderate discount in New York.

**Recent Movements in Canadian Exchange.\***—Because Canada has no foreign exchange mechanism of her own, Canadian transactions in exchange and monetary gold have been governed by New York and London. The United Kingdom buys much more from Canada than Canada buys from her, but the reserve is the case as regards the trade between Canada and the United States. The result is that there is a supply of bills on London in excess of the amount needed to meet current obligations in the United Kingdom. By offering these for sale for United States funds in London or New York, a triangular balance is approximated by book transactions and without the cross transfers of the larger quantities of gold which would otherwise be necessary. The volume of sterling exchange on Canadian account thus passed to the New York market does not greatly influence New York rates of sterling exchange under normal conditions; on the contrary, the volume of the New York-London transactions is sufficient to carry the Canadian rates along with them. Canadian exchange transactions with other countries are handled through London or New York and are unimportant of themselves, depending on the relationships with Canadian-New York and Canadian-London transactions.

In September, 1931, the equilibrium of international exchange was seriously disturbed. This unfortunate turn of events followed a period of over six years during which the nations of the world had worked steadily towards the stabilization of their currency systems upon a gold basis. Within two months of the time when the United Kingdom found it necessary to suspend free gold shipments, however, only a very small number of countries, including the United States and France, were left with currencies unshaken by preceding abnormal gold movements. The decision of the United Kingdom to go off the gold standard (Sept. 21, 1931) resulted in a sharp depreciation of sterling in New York, and partly owing to the triangular nature of the situation, but in some measure due to the immediate withdrawals of funds from Canadian banks by United States interests, short selling of Canadian exchange and other influences, Canadian rates depreciated also and fluctuated broadly with sterling until the United States dollar dropped from the ranks of gold standard currencies on April 19, 1933.†

During the balance of that year, the premium on United States dollars at Montreal gradually diminished from approximately 20 p.c. until in November it was replaced by a small discount of about 1 p.c. The pound sterling meanwhile advanced from \$4.234 in April to \$5.082 in November. The course of foreign exchanges throughout 1934 was more stable than it had been since 1931. Sterling reacted gradually until it reached its former parity of \$4.866 in September, and subsequent fluctuations centered around that level. This movement was accompanied by minor irregular changes in the United States dollar, which regained a fractional premium early in 1935. The Montreal premium on gold currencies has risen until it stood in the early part of 1935 at approximately 65 p.c.

\*Revised by Herbert Marshall, B.A., F.S.S., Chief, Internal Trade Branch, Dominion Bureau of Statistics.

†The U.S. dollar was subsequently replaced on a gold basis on Jan. 31, 1934, but the gold content of that dollar was reduced from 23.22 grains to ~~15.1~~ grains, or  $\frac{1}{32}$  of an ounce. The new U.S. gold dollar, therefore, has a gold content equal to 59.06 p.c. of that of the former gold dollar.

13  $\frac{5}{7}$

### 35.—Monthly Averages of Exchange Quotations at Montreal, 1933 and 1934.

NOTE.—The nominal closing quotations in Canadian funds upon which these averages are based, have been supplied by the Bank of Montreal.

| Month.         | Australia.<br>Pound. |       | Austria.<br>Schilling. |       | Belgium.<br>Belga. |       | Czecho-<br>slovakia.<br>Krone. |       | Denmark.<br>Krone. |       | Finland.<br>Markka. |       |
|----------------|----------------------|-------|------------------------|-------|--------------------|-------|--------------------------------|-------|--------------------|-------|---------------------|-------|
|                | Par.                 |       |                        |       |                    |       |                                |       |                    |       |                     |       |
|                | 4.8666               |       | .1407                  |       | .1390              |       | .0296                          |       | .2680              |       | .0252               |       |
|                | 1933.                | 1934. | 1933.                  | 1934. | 1933.              | 1934. | 1933.                          | 1934. | 1933.              | 1934. | 1933.               | 1934. |
|                | \$                   | \$    | \$                     | \$    | \$                 | \$    | \$                             | \$    | \$                 | \$    | \$                  | \$    |
| January.....   | 3.071                | 4.053 | .161                   | .181  | .159               | .222  | .034                           | .048  | .195               | .229  | .017                | .022  |
| February.....  | 3.273                | 4.055 | .169                   | .188  | .168               | .231  | .036                           | .045  | .184               | .227  | .018                | .023  |
| March.....     | 3.292                | 4.081 | .170                   | .190  | .168               | .234  | .036                           | .042  | .186               | .228  | .019                | .023  |
| April.....     | 3.378                | 4.110 | .167                   | .191  | .173               | .234  | .038                           | .042  | .190               | .230  | .019                | .023  |
| May.....       | 3.585                | 4.072 | .173                   | .190  | .187               | .234  | .041                           | .042  | .202               | .228  | .020                | .023  |
| June.....      | 3.680                | 4.003 | .162                   | .189  | .191               | .232  | .042                           | .041  | .207               | .224  | .021                | .022  |
| July.....      | 3.936                | 3.980 | .168                   | .188  | .207               | .231  | .045                           | .041  | .222               | .223  | .022                | .022  |
| August.....    | 3.816                | 3.952 | .172                   | .187  | .205               | .232  | .045                           | .041  | .215               | .222  | .022                | .022  |
| September..... | 3.862                | 3.877 | .177                   | .187  | .216               | .231  | .046                           | .041  | .217               | .217  | .022                | .022  |
| October.....   | 3.824                | 3.868 | .170                   | .187  | .213               | .230  | .046                           | .041  | .215               | .216  | .021                | .022  |
| November.....  | 4.056                | 3.891 | .181                   | .184  | .221               | .228  | .048                           | .041  | .228               | .218  | .023                | .022  |
| December.....  | 4.066                | 3.903 | .179                   | .187  | .217               | .231  | .047                           | .041  | .228               | .218  | .023                | .022  |

| Month.         | France.<br>Franc. |       | Germany.<br>Reichs-<br>mark. |       | Holland.<br>Guilder. |       | Italy.<br>Lira. |       | Norway.<br>Krone. |       | Spain.<br>Peseta.  |       |
|----------------|-------------------|-------|------------------------------|-------|----------------------|-------|-----------------|-------|-------------------|-------|--------------------|-------|
|                | Par.              |       |                              |       |                      |       |                 |       |                   |       |                    |       |
|                | .0392             |       | .2382                        |       | .4020                |       | .0526           |       | .2680             |       | .1930 <sup>1</sup> |       |
|                | 1933.             | 1934. | 1933.                        | 1934. | 1933.                | 1934. | 1933.           | 1934. | 1933.             | 1934. | 1933.              | 1934. |
|                | \$                | \$    | \$                           | \$    | \$                   | \$    | \$              | \$    | \$                | \$    | \$                 | \$    |
| January.....   | .045              | .063  | .272                         | .378  | .460                 | .641  | .059            | .084  | .198              | .256  | .094               | .131  |
| February.....  | .047              | .065  | .285                         | .393  | .484                 | .667  | .062            | .087  | .211              | .256  | .099               | .135  |
| March.....     | .047              | .066  | .286                         | .398  | .485                 | .675  | .062            | .086  | .213              | .257  | .102               | .138  |
| April.....     | .049              | .066  | .289                         | .395  | .499                 | .678  | .064            | .086  | .218              | .259  | .106               | .137  |
| May.....       | .053              | .066  | .314                         | .394  | .538                 | .678  | .070            | .085  | .230              | .257  | .115               | .137  |
| June.....      | .054              | .066  | .322                         | .381  | .547                 | .673  | .071            | .085  | .234              | .252  | .116               | .136  |
| July.....      | .058              | .065  | .353                         | .382  | .597                 | .670  | .079            | .085  | .249              | .251  | .124               | .135  |
| August.....    | .057              | .065  | .348                         | .386  | .590                 | .669  | .077            | .085  | .242              | .249  | .122               | .135  |
| September..... | .060              | .065  | .368                         | .392  | .622                 | .667  | .081            | .084  | .244              | .244  | .129               | .135  |
| October.....   | .060              | .065  | .363                         | .396  | .616                 | .668  | .081            | .084  | .242              | .244  | .126               | .135  |
| November.....  | .062              | .064  | .377                         | .392  | .639                 | .660  | .084            | .084  | .257              | .245  | .131               | .134  |
| December.....  | .061              | .065  | .372                         | .397  | .627                 | .668  | .082            | .084  | .257              | .246  | .123               | .135  |

For footnote see end of table, p. 1003.

### 35.—Monthly Averages of Exchange Quotations at Montreal, 1933 and 1934— concluded.

| Month.         | Sweden.<br>Krona. |       | Switzer-<br>land.<br>Franc. |       | Argentina.<br>Peso.<br>(paper.) |       | Brazil.<br>Milreis. |       | Mexico.<br>Peso. |       | Hong Kong.<br>Dollar. |       |
|----------------|-------------------|-------|-----------------------------|-------|---------------------------------|-------|---------------------|-------|------------------|-------|-----------------------|-------|
| Par.           | -2680             |       | -1930                       |       | -4244                           |       | -1196               |       | -4985            |       | -3000 <sup>1</sup>    |       |
|                | 1933.             | 1934. | 1933.                       | 1934. | 1933.                           | 1934. | 1933.               | 1934. | 1933.            | 1934. | 1933.                 | 1934. |
|                | \$                | \$    | \$                          | \$    | \$                              | \$    | \$                  | \$    | \$               | \$    | \$                    | \$    |
| January.....   | ·210              | ·262  | ·212                        | ·309  | ·296                            | ·264  | ·086                | ·087  | ·351             | ·279  | ·251                  | ·382  |
| February.....  | ·230              | ·262  | ·233                        | ·321  | ·310                            | ·285  | ·090                | ·087  | ·343             | ·279  | ·267                  | ·388  |
| March.....     | ·220              | ·264  | ·233                        | ·324  | ·309                            | ·257  | ·089                | ·087  | ·343             | ·278  | ·278                  | ·390  |
| April.....     | ·214              | ·265  | ·240                        | ·324  | ·314                            | ·253  | ·088                | ·087  | ·334             | ·276  | ·289                  | ·383  |
| May.....       | ·232              | ·263  | ·259                        | ·325  | ·324                            | ·238  | ·088                | ·085  | ·333             | ·278  | ·315                  | ·365  |
| June.....      | ·238              | ·259  | ·264                        | ·323  | ·344                            | ·246  | ·088                | ·084  | ·311             | ·277  | ·329                  | ·365  |
| July.....      | ·256              | ·257  | ·287                        | ·322  | ·376                            | ·247  | ·091                | ·085  | ·299             | ·276  | ·353                  | ·374  |
| August.....    | ·248              | ·256  | ·283                        | ·322  | ·374                            | ·269  | ·090                | ·084  | ·301             | ·272  | ·339                  | ·380  |
| September..... | ·251              | ·251  | ·299                        | ·321  | ·393                            | ·265  | ·088                | ·082  | ·290             | ·271  | ·346                  | ·385  |
| October.....   | ·243              | ·250  | ·296                        | ·321  | ·391                            | ·260  | ·087                | ·082  | ·290             | ·273  | ·343                  | ·400  |
| November.....  | ·263              | ·251  | ·307                        | ·317  | ·407                            | ·253  | ·087                | ·082  | ·278             | ·272  | ·368                  | ·406  |
| December.....  | ·264              | ·252  | ·302                        | ·320  | ·287                            | ·248  | ·088                | ·081  | ·277             | ·275  | ·373                  | ·420  |

| Month.         | India.<br>Rupee. |       | Japan.<br>Yen. |       | Shanghai.<br>Dollar. <sup>2</sup> |       | London.<br>Sterling. |       | New York.<br>Dollar. |       |
|----------------|------------------|-------|----------------|-------|-----------------------------------|-------|----------------------|-------|----------------------|-------|
| Par.           | -3650            |       | -4985          |       | -4167 <sup>1</sup>                |       | 4·8666               |       | 1·00                 |       |
|                | 1933.            | 1934. | 1933.          | 1934. | 1933.                             | 1934. | 1933.                | 1934. | 1933.                | 1934. |
|                | \$               | \$    | \$             | \$    | \$                                | \$    | \$                   | \$    | \$                   | \$    |
| January.....   | ·291             | ·385  | ·240           | ·305  | ·321                              | ·347  | 3·847                | 5·070 | 1·143                | 1·005 |
| February.....  | ·312             | ·385  | ·251           | ·302  | ·344                              | ·350  | 4·099                | 5·078 | 1·197                | 1·008 |
| March.....     | ·313             | ·385  | ·260           | ·302  | ·352                              | ·350  | 4·135                | 5·107 | 1·199                | 1·002 |
| April.....     | ·324             | ·388  | ·266           | ·304  | ·348                              | ·342  | 4·234                | 5·148 | 1·179                | ·998  |
| May.....       | ·343             | ·384  | ·278           | ·303  |                                   | ·328  | 4·498                | 5·100 | 1·141                | ·998  |
| June.....      | ·350             | ·377  | ·291           | ·298  | Not                               | ·329  | 4·615                | 5·012 | 1·112                | ·992  |
| July.....      | ·374             | ·375  | ·309           | ·296  | avail-                            | ·337  | 4·931                | 4·985 | 1·058                | ·988  |
| August.....    | ·363             | ·373  | ·288           | ·294  | able                              | ·342  | 4·787                | 4·951 | 1·061                | ·977  |
| September..... | ·368             | ·365  | ·285           | ·290  |                                   | ·345  | 4·839                | 4·855 | 1·036                | ·971  |
| October.....   | ·363             | ·365  | ·287           | ·282  |                                   | ·344  | 4·787                | 4·843 | 1·024                | ·979  |
| November.....  | ·387             | ·367  | ·303           | ·285  | ·329                              | ·328  | 5·082                | 4·872 | ·990                 | ·976  |
| December.....  | ·390             | ·368  | ·308           | ·286  | ·338                              | ·339  | 5·096                | 4·887 | ·995                 | ·988  |

<sup>1</sup>Par rates given are those recognized in pre-war years, no post-war financial readjustment having been effected.

<sup>2</sup>Shanghai dollar from November 1933 onwards.

## CHAPTER XXIII.—INSURANCE.\*

Insurance business is transacted in Canada by companies of the following classes, *viz.*, (1) companies incorporated under the laws of the Dominion of Canada or of the former "Province of Canada", (2) companies incorporated under the laws of the provinces of Canada, and (3) companies incorporated or formed under the laws of British and foreign countries. The word "companies" as here used, includes fraternal benefit societies, associations and exchanges which transact the business of insurance. The Dominion Insurance Acts provide that companies of classes (1) and (3) above may not transact business anywhere in Canada unless registered† by the Dominion, but these Acts also provide that fire insurance on property in Canada may be effected in companies of class (3) even though not registered, if the insurance is effected without solicitation, advertising or the use of the mails, and if an office is not maintained in Canada, though property to be insured may be inspected and losses may be adjusted. Insurance so effected is generally known as "unlicensed insurance". Companies of class (2) above may transact business in the province of incorporation, subject to compliance with the laws thereof, or in any other province subject to compliance with the laws thereof, or, on compliance with the Dominion laws, may be granted Dominion registration. Most of these companies limit their business to the province of incorporation or to one or more other provinces; a few only have been granted Dominion registration.

What has been said above implies that jurisdiction concerning insurance companies and insurance business is divided between the Dominion and the provinces. There have been many references to the courts and appeals to the Privy Council with a view to determining the respective legislative domains, both in respect of insurance legislation specifically and in respect of legislation affecting companies generally, including insurance companies. The last Privy Council decision was handed down in 1931. It may now be taken as established that the Parliament of Canada may require companies formed or incorporated outside of Canada to obtain Dominion registration and continue to be so registered as a condition of transacting business in Canada, and these companies may be required to make returns from time to time of their business and doings in Canada and to furnish evidence of their solvency. The powers of the Dominion go much farther in reference to companies incorporated by the Parliament of Canada, but include all of the powers which may be exercised over companies formed or incorporated outside of Canada and registered by the Dominion. The Acts passed in 1932‡ implement the powers of the Dominion as determined by the Privy Council decisions.

The Dominion Acts under which companies are registered are administered by the Department of Insurance under the Minister of Finance. The chief officer of the Department of Insurance is the Superintendent of Insurance. The first Superintendent was appointed in 1875 as head of a newly created Insurance Branch of the Department of Finance. In 1910 the Insurance Branch was constituted into a separate Department, the Department of Insurance, under the Minister of Finance.

\*The statistics of Fire, Life and Miscellaneous Insurance have been revised by G. D. Finlayson, Superintendent of Insurance, and those pertaining to Government Annuities (Section 4) by W. M. Dickson, Deputy Minister of Labour.

†Prior to 1932, the Dominion Insurance Acts provided for the "licensing" of companies; the Acts passed in 1932 provide for "registration". The change in terminology does not indicate any change in substance.

‡The Canadian and British Insurance Companies Act, 1932 (22-3 Geo. V, c. 46). The Foreign Insurance Companies Act, 1932 (22-3 Geo. V, c. 47).



Precedent to obtaining first registration, in addition to filing certain documents, including a full and complete financial statement, a company must satisfy the Minister that it is sound and solvent and must make the required initial deposit of securities, varying from \$10,000 to \$100,000, depending on the class of business to be undertaken. Annual returns are required of all registered companies and the Acts require an examination to be made, by the Superintendent or on his behalf, of the books and records of companies with a view to substantiating the accuracy of the statements filed and the soundness of the companies. Should any company show an unsatisfactory financial condition, the Acts require immediate remedial measures to be taken. British and foreign companies are required to maintain in Canada assets sufficient to cover all of their liabilities in Canada, while Canadian companies are required to maintain in Canada all of their assets, except such as it may be necessary to deposit outside of Canada as security for "outside of Canada" business.

The statistics herein given in respect of companies registered by the Dominion are divided into three classes relating to: (1) insurance against fire, (2) life insurance, and (3) miscellaneous insurance, *viz.*, accident, automobile, aviation, burglary, credit, earthquake, explosion, forgery, guarantee, hail, leakage, live-stock, sickness, steam boiler, title, tornado and weather insurance. These statistics are compiled from the reports of the Department of Insurance; throughout they apply to calendar years.

Since 1915, the Department of Insurance has collected statistics, included herein, of business transacted by provincial companies licensed by the provinces, classified as to: (1) business transacted within the province of incorporation, and (2) business transacted in other provinces.

Returns in respect of "unlicensed insurance", above referred to, were required under Section 16 of the Special War Revenue Act for taxation purposes, and statistics compiled from these returns were published in the Canada Year Book, prior to the 1933 edition, as Table 8. This section of the Act having been held unconstitutional by Privy Council decision, Oct. 22, 1931, on an appeal from the Court of the King's Bench of the province of Quebec, the returns for 1930 were incomplete and were not published in the 1933 Year Book. By an amendment to the Act at the 1932 session of Parliament, a section analogous to Section 16 was enacted, applicable to unlicensed insurance and Table 8 is therefore revived in the present edition (see p. 1016).

Statistics of Dominion Government annuities are given at the end of this chapter. The Department of Labour administers the Acts under which these annuities are sold.

### Section 1.—Fire Insurance.

Fire insurance in Canada began with the establishment by British fire insurance companies of agencies, usually situated in the sea ports and operated by local merchants. The oldest existing agency of a British company is that of the Phoenix Fire Office of London, now the Phoenix Assurance Co., Ltd., which commenced business in Montreal in 1804. On account of the growth of the insurance business of these early British companies, branch offices were established and local managers were appointed, charged with directing the companies' affairs in Canada.

The Halifax Fire Insurance Co. is the first purely Canadian company of which any record is available. Founded in 1809 as the Nova Scotia Fire Association, it was chartered in 1819 and operated in the province of Nova Scotia until 1919,

when it was granted a Dominion licence. Among the other pioneer fire insurance companies still in operation, mention may be made of the following: the Quebec Fire Assurance Co., which commenced business in 1818 and was largely confined in ownership and operations to Quebec province; the British America Assurance Co., incorporated in 1833, the oldest company in Ontario; the Western Assurance Co., organized in 1851, and, after a rapid and steady growth, one of the largest companies of its kind on the continent; two United States companies, the Aetna Insurance Co., Hartford, Conn., and the Hartford Fire Insurance Co., which commenced business in Canada in 1821 and 1836 respectively.

The report of the Superintendent of Insurance for the year ended Dec. 31, 1933, shows that at that date there were 240 fire insurance companies doing business in Canada under Dominion licences; of these 49 were Canadian, 67 were British and 124 were foreign companies, whereas in 1875, the first year for which authentic records were collected by the Department of Insurance, 27 companies operated in Canada—11 Canadian, 13 British and 3 American. The proportionate increase in the number of British and foreign companies from 58 p.c. to almost 80 p.c. of the total number is a very marked point of difference between the fire and life insurance businesses in Canada, the latter being carried on very largely by Canadian companies.

Although in its early days the Dominion did not prove a very lucrative field for fire insurance companies, the great advance in building construction and the wide use of improved fire appliances and safety devices have materially reduced the danger of serious conflagrations and have placed the risks assumed by companies in Canada on an equality with those of other countries.

A feature of the fire insurance business, besides the large percentage of British and foreign companies, is the continued increase in the number of companies which are operating on the mutual or reciprocal plan. These companies, in which all profits or losses are directly received or paid by the policyholders, are making themselves felt as competitive factors in the fire insurance business.

**Statistics of Fire Insurance.**—Statistical tables of fire insurance in Canada follow, illustrative of the progress of total business since 1869 and of the operations of individual companies for the year 1933. The net amount of fire insurance in force on Dec. 31, 1933, with companies holding Dominion licences, was \$9,008,262,736, while the net amount in force with provincial companies on the same date was \$1,190,180,426. In addition, policies amounting to \$442,826,911 were in force during the year 1933 with companies, associations or underwriters not authorized to transact business in Canada. Thus the grand total fire insurance in force on Dec. 31, 1933, probably approximated \$10,600,000,000.\*

Table 1 shows figures of the growth since 1869 of companies registered by the Dominion, the relationship between losses paid and net premiums written, and the variation in the cost per \$100 of insurance. It will be observed that the cost of insurance reached a maximum in 1904 and 1905; there has since been a steady decrease with the exception of the years 1921, 1922 and 1924, when temporary reversals of the downward swing were in evidence. It is noteworthy that the cost of fire insurance has decreased by 53.75 p.c. since 1905. Table 2 shows the business done in Canada by individual companies during the year 1933, while in Tables 3, 4 and 5 are given figures of the assets, liabilities, incomes and expenditures during the years 1929 to 1933, classified by nationality of companies. A further summary of

\*According to preliminary figures fire insurance in force in companies registered by the Dominion decreased by \$171,660,559 in 1934.

business is given by provinces in Table 6 for the years 1932 and 1933, showing premiums and losses classified by provinces and by nationality of companies. Further, a summary of the business transacted by both Dominion and provincial licensees is given in Table 7, and a general summary of the business of companies not registered under Section 148 of the Canadian and British Insurance Companies Act, 1932, or Section 65 of the Foreign Insurance Companies Act, 1932, is given in Table 8.

**1.—Summary Statistics of Fire Insurance in Companies Operating under Dominion Licences, calendar years 1869-1934.**

| Year.     | Amount<br>in Force at<br>End of Year. | Net<br>Premiums<br>Received<br>during<br>Year. | Losses<br>Paid<br>during<br>Year. | Percent-<br>age of<br>Losses<br>to Pre-<br>miums. | Gross Amount<br>of Risks<br>Taken<br>during Year. | Premiums<br>Charged<br>thereon. | Average<br>Cost per<br>\$100 of<br>Insurance. |
|-----------|---------------------------------------|------------------------------------------------|-----------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------|-----------------------------------------------|
|           | \$                                    | \$                                             | \$                                | p. c.                                             | \$                                                | \$                              | \$                                            |
| 1869..... | 188,359,809                           | 1,785,539                                      | 1,027,720                         | 57-56                                             | 171,540,475                                       | 1                               | 1                                             |
| 1870..... | 191,549,586                           | 1,916,779                                      | 1,624,837                         | 84-77                                             | 199,102,070                                       | 1                               | 1                                             |
| 1871..... | 228,453,784                           | 2,321,716                                      | 1,549,199                         | 66-73                                             | 244,437,172                                       | 1                               | 1                                             |
| 1872..... | 251,722,940                           | 2,628,710                                      | 1,909,975                         | 72-66                                             | 277,387,271                                       | 1                               | 1                                             |
| 1873..... | 278,754,835                           | 2,968,416                                      | 1,682,184                         | 55-67                                             | 271,095,925                                       | 1                               | 1                                             |
| 1874..... | 306,844,219                           | 3,522,303                                      | 1,926,159                         | 54-68                                             | 329,178,974                                       | 1                               | 1                                             |
| 1875..... | 364,421,029                           | 3,594,764                                      | 2,563,531                         | 71-31                                             | 331,098,419                                       | 1                               | 1                                             |
| 1876..... | 404,608,180                           | 3,708,006                                      | 2,867,295                         | 77-33                                             | 401,148,747                                       | 1                               | 1                                             |
| 1877..... | 420,342,681                           | 3,764,005                                      | 3,490,919                         | 225-58                                            | 385,736,566                                       | 3,817,360                       | 0-99                                          |
| 1878..... | 409,899,701                           | 3,368,430                                      | 1,822,674                         | 54-11                                             | 359,847,757                                       | 3,723,530                       | 1-35                                          |
| 1879..... | 407,357,985                           | 3,227,488                                      | 2,145,198                         | 66-47                                             | 360,704,419                                       | 3,608,501                       | 1-00                                          |
| 1880..... | 411,563,271                           | 3,479,577                                      | 1,666,578                         | 47-90                                             | 384,051,861                                       | 3,958,437                       | 1-03                                          |
| 1881..... | 462,210,968                           | 3,827,116                                      | 3,169,824                         | 82-83                                             | 441,416,238                                       | 4,414,728                       | 1-00                                          |
| 1882..... | 526,856,478                           | 4,229,706                                      | 2,664,986                         | 63-01                                             | 478,044,416                                       | 4,850,717                       | 1-01                                          |
| 1883..... | 572,264,041                           | 4,624,741                                      | 2,920,225                         | 63-14                                             | 513,580,302                                       | 5,379,850                       | 1-05                                          |
| 1884..... | 605,507,789                           | 4,980,128                                      | 3,245,323                         | 65-16                                             | 513,983,378                                       | 5,934,773                       | 1-15                                          |
| 1885..... | 611,794,479                           | 4,852,460                                      | 2,679,287                         | 55-22                                             | 486,002,908                                       | 5,684,758                       | 1-17                                          |
| 1886..... | 586,773,022                           | 4,932,335                                      | 3,301,388                         | 66-93                                             | 505,752,907                                       | 5,854,172                       | 1-16                                          |
| 1887..... | 634,767,337                           | 5,244,502                                      | 3,403,514                         | 64-90                                             | 532,757,088                                       | 6,145,188                       | 1-15                                          |
| 1888..... | 650,735,059                           | 5,437,263                                      | 3,073,822                         | 56-53                                             | 541,580,007                                       | 6,390,296                       | 1-18                                          |
| 1889..... | 684,538,378                           | 5,588,016                                      | 2,876,211                         | 51-47                                             | 572,782,104                                       | 6,628,336                       | 1-16                                          |
| 1890..... | 720,679,621                           | 5,836,071                                      | 3,266,567                         | 55-97                                             | 620,723,945                                       | 7,019,319                       | 1-13                                          |
| 1891..... | 759,602,191                           | 6,168,716                                      | 3,905,697                         | 63-31                                             | 623,418,422                                       | 7,248,495                       | 1-16                                          |
| 1892..... | 821,410,072                           | 6,512,327                                      | 4,377,270                         | 67-22                                             | 687,175,688                                       | 8,086,503                       | 1-18                                          |
| 1893..... | 814,687,057                           | 6,793,595                                      | 5,052,690                         | 74-37                                             | 687,604,239                                       | 8,115,594                       | 1-18                                          |
| 1894..... | 836,067,202                           | 6,711,369                                      | 4,589,363                         | 68-38                                             | 653,589,428                                       | 8,158,033                       | 1-25                                          |
| 1895..... | 837,872,864                           | 6,943,382                                      | 4,993,750                         | 71-92                                             | 667,639,048                                       | 8,243,605                       | 1-23                                          |
| 1896..... | 845,574,352                           | 7,075,850                                      | 4,173,501                         | 58-98                                             | 669,288,650                                       | 8,397,876                       | 1-25                                          |
| 1897..... | 868,522,217                           | 7,157,661                                      | 4,701,833                         | 65-69                                             | 663,698,309                                       | 8,304,227                       | 1-25                                          |
| 1898..... | 895,394,107                           | 7,350,131                                      | 4,784,487                         | 65-09                                             | 681,160,689                                       | 8,564,124                       | 1-26                                          |
| 1899..... | 936,869,668                           | 7,910,492                                      | 5,182,038                         | 65-51                                             | 756,257,098                                       | 9,316,685                       | 1-23                                          |
| 1900..... | 992,332,360                           | 8,331,948                                      | 7,774,293                         | 93-31                                             | 803,428,654                                       | 10,031,735                      | 1-25                                          |
| 1901..... | 1,038,967,619                         | 9,650,348                                      | 6,774,956                         | 70-20                                             | 821,522,854                                       | 11,688,958                      | 1-42                                          |
| 1902..... | 1,075,263,168                         | 10,577,084                                     | 4,152,289                         | 39-26                                             | 892,049,886                                       | 13,087,251                      | 1-47                                          |
| 1903..... | 1,140,453,716                         | 11,384,762                                     | 5,870,716                         | 51-57                                             | 933,274,764                                       | 14,038,182                      | 1-50                                          |
| 1904..... | 1,215,013,931                         | 13,169,832                                     | 14,099,534                        | 107-06                                            | 1,002,305,105                                     | 16,006,969                      | 1-60                                          |
| 1905..... | 1,318,146,495                         | 14,285,671                                     | 6,000,519                         | 42-00                                             | 1,140,095,372                                     | 18,262,037                      | 1-60                                          |
| 1906..... | 1,443,902,244                         | 14,687,963                                     | 6,584,291                         | 44-83                                             | 1,210,099,865                                     | 18,554,730                      | 1-53                                          |
| 1907..... | 1,614,703,536                         | 16,114,475                                     | 8,445,041                         | 52-41                                             | 1,364,204,991                                     | 20,492,863                      | 1-50                                          |
| 1908..... | 1,700,708,263                         | 17,027,275                                     | 10,279,455                        | 60-37                                             | 1,466,294,021                                     | 21,968,432                      | 1-50                                          |
| 1909..... | 1,863,276,504                         | 17,049,464                                     | 8,646,826                         | 50-72                                             | 1,579,975,867                                     | 22,293,633                      | 1-41                                          |
| 1910..... | 2,034,276,740                         | 18,725,531                                     | 10,292,393                        | 54-96                                             | 1,817,055,685                                     | 24,684,296                      | 1-36                                          |
| 1911..... | 2,279,868,346                         | 20,575,255                                     | 10,936,948                        | 53-16                                             | 1,987,640,591                                     | 26,867,170                      | 1-35                                          |
| 1912..... | 2,684,355,895                         | 23,194,518                                     | 12,119,531                        | 52-25                                             | 2,374,161,732                                     | 30,639,867                      | 1-29                                          |
| 1913..... | 3,151,930,389                         | 25,745,947                                     | 14,003,759                        | 54-39                                             | 2,925,200,553                                     | 36,032,461                      | 1-21                                          |
| 1914..... | 3,456,019,009                         | 27,499,158                                     | 15,347,284                        | 55-81                                             | 3,104,101,568                                     | 36,185,927                      | 1-17                                          |
| 1915..... | 3,531,620,802                         | 26,474,833                                     | 14,161,949                        | 53-49                                             | 3,111,552,903                                     | 36,048,345                      | 1-16                                          |

<sup>1</sup>Figures from 1869-76 not available.



**1.—Summary Statistics of Fire Insurance in Companies Operating under Dominion Licences, calendar years 1869-1934—concluded.**

| Year.                   | Amount<br>in Force at<br>end of Year. | Net<br>Premiums<br>Received<br>during<br>Year. | Losses<br>Paid<br>during<br>Year. | Percent-<br>age of<br>Losses<br>to Pre-<br>miums. | Gross Amount<br>of Risks<br>Taken<br>during Year. | Premiums<br>Charged<br>thereon. | Average<br>Cost per<br>\$100 of<br>Insurance. |
|-------------------------|---------------------------------------|------------------------------------------------|-----------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------|-----------------------------------------------|
|                         | \$                                    | \$                                             | \$                                | p.c.                                              | \$                                                | \$                              | \$                                            |
| 1916.....               | 3,720,058,236                         | 27,783,852                                     | 15,114,063                        | 54.40                                             | 3,418,238,860                                     | 37,231,691                      | 1.09                                          |
| 1917.....               | 3,986,197,514                         | 31,246,530                                     | 16,379,101                        | 52.42                                             | 4,049,059,999                                     | 43,515,822                      | 1.07                                          |
| 1918.....               | 4,523,514,841                         | 35,954,405                                     | 19,359,352                        | 53.84                                             | 4,606,035,056                                     | 48,770,112                      | 1.06                                          |
| 1919.....               | 4,923,024,381                         | 40,031,474                                     | 16,679,355                        | 41.67                                             | 5,423,569,961                                     | 57,577,632                      | 1.06                                          |
| 1920.....               | 5,969,872,278                         | 50,527,937                                     | 21,935,387                        | 43.41                                             | 6,790,670,610                                     | 71,143,917                      | 1.05                                          |
| 1921.....               | 6,020,513,832                         | 47,312,564 <sup>1</sup>                        | 27,572,560 <sup>1</sup>           | 58.28                                             | 6,139,531,168                                     | 68,161,786                      | 1.11                                          |
| 1922.....               | 6,348,637,436                         | 48,168,310 <sup>1</sup>                        | 32,848,020 <sup>1</sup>           | 68.19                                             | 6,471,133,294                                     | 68,347,294                      | 1.06                                          |
| 1923.....               | 6,806,937,041                         | 51,169,250 <sup>1</sup>                        | 32,142,494 <sup>1</sup>           | 62.82                                             | 7,311,835,110                                     | 80,037,471                      | 1.00                                          |
| 1924.....               | 7,224,475,267                         | 49,833,718 <sup>1</sup>                        | 29,186,904 <sup>1</sup>           | 58.57                                             | 6,987,536,461                                     | 71,146,802                      | 1.02                                          |
| 1925.....               | 7,583,297,899                         | 51,040,075 <sup>1</sup>                        | 26,943,089 <sup>1</sup>           | 52.79                                             | 7,646,026,535                                     | 74,679,130                      | 0.98                                          |
| 1926.....               | 8,051,444,136                         | 52,595,923 <sup>1</sup>                        | 25,705,975 <sup>1</sup>           | 48.87                                             | 8,716,166,834                                     | 81,104,612                      | 0.93                                          |
| 1927.....               | 8,287,732,966                         | 51,375,637 <sup>1</sup>                        | 20,831,931 <sup>1</sup>           | 40.55                                             | 8,531,139,424                                     | 76,423,855                      | 0.90                                          |
| 1928.....               | 8,761,579,512                         | 54,826,851 <sup>1</sup>                        | 25,544,664 <sup>1</sup>           | 46.57                                             | 9,187,224,958                                     | 80,437,215                      | 0.88                                          |
| 1929.....               | 9,431,169,594                         | 56,112,457 <sup>1</sup>                        | 30,209,839 <sup>1</sup>           | 53.84                                             | 10,791,096,165                                    | 87,317,411                      | 0.81                                          |
| 1930.....               | 9,672,996,973                         | 52,646,920 <sup>1</sup>                        | 30,427,968 <sup>1</sup>           | 57.71                                             | 10,311,193,608                                    | 82,700,147                      | 0.80                                          |
| 1931.....               | 9,544,641,293                         | 50,342,669 <sup>1</sup>                        | 29,938,409 <sup>1</sup>           | 59.47                                             | 10,789,737,477                                    | 86,741,056                      | 0.80                                          |
| 1932.....               | 9,301,747,991                         | 46,911,929 <sup>1</sup>                        | 30,068,923 <sup>1</sup>           | 64.10                                             | 10,339,649,769                                    | 81,823,235                      | 0.79                                          |
| 1933.....               | 9,008,262,736                         | 41,573,986 <sup>1</sup>                        | 21,655,460 <sup>1</sup>           | 52.09                                             | 10,644,787,101                                    | 78,980,010                      | 0.74                                          |
| 1934 <sup>2</sup> ..... | 8,836,602,177                         | 41,493,762                                     | 16,967,067                        | 40.82                                             | 9,539,849,420                                     | 68,955,200                      | 0.72                                          |

<sup>1</sup>These figures show premiums written and losses incurred.<sup>2</sup>Figures for 1934 are subject to revision.

**2.—Fire Insurance Business Transacted in Canada, by Companies, 1933.**

| Company.                     | Gross<br>Amount of<br>Risks Taken<br>during<br>Year. | Premiums<br>Charged<br>thereon. | Rate of<br>Pre-<br>miums<br>per<br>cent<br>of<br>Risks. | Net<br>Premiums<br>Written. | Net Losses<br>Incurred. | Per-<br>cent-<br>age of<br>Losses<br>Incurred to Pre-<br>miums Writ-<br>ten. |
|------------------------------|------------------------------------------------------|---------------------------------|---------------------------------------------------------|-----------------------------|-------------------------|------------------------------------------------------------------------------|
|                              | \$                                                   | \$                              | p.c.                                                    | \$                          | \$                      | p.c.                                                                         |
| <b>Canadian Companies.</b>   |                                                      |                                 |                                                         |                             |                         |                                                                              |
| Acadia.....                  | 60,264,880                                           | 508,529                         | .84                                                     | 205,723                     | 108,319                 | 52.65                                                                        |
| Antigonish.....              | 222,700                                              | 2,576                           | 1.16                                                    | 2,576                       | 3,158                   | 22.59                                                                        |
| Beaver.....                  | 11,450,191                                           | 88,137                          | .77                                                     | 27,058                      | 9,054                   | 33.46                                                                        |
| British America.....         | 67,147,100                                           | 560,547                         | .83                                                     | 343,402                     | 165,051                 | 48.06                                                                        |
| British Canadian.....        | 9,581,174                                            | 111,555                         | 1.16                                                    | 60,825                      | 24,898                  | 40.93                                                                        |
| British Colonial.....        | 23,385,846                                           | 247,178                         | 1.06                                                    | 98,350                      | 102,029                 | 103.74                                                                       |
| British Empire.....          | 13,640,442                                           | 154,949                         | 1.14                                                    | 86,795                      | 48,169                  | 55.50                                                                        |
| British Northwestern.....    | 63,783,331                                           | 342,993                         | .54                                                     | 168,615                     | 85,795                  | 50.88                                                                        |
| Canada Accident and Fire...  | 48,482,042                                           | 639,967                         | 1.32                                                    | 188,571                     | 87,336                  | 46.31                                                                        |
| Canada Security.....         | 30,742,046                                           | 280,641                         | .91                                                     | 134,596                     | 64,868                  | 48.19                                                                        |
| Canadian Fire.....           | 55,729,329                                           | 468,419                         | .84                                                     | 334,178                     | 135,390                 | 40.51                                                                        |
| Canadian General.....        | 31,857,147                                           | 270,656                         | .85                                                     | 132,422                     | 54,273                  | 40.98                                                                        |
| Canadian Indemnity.....      | 20,584,270                                           | 170,773                         | .83                                                     | 116,382                     | 50,703                  | 43.57                                                                        |
| Canadian Surety.....         | 12,229,013                                           | 86,131                          | .70                                                     | 37,580                      | 14,669                  | 39.04                                                                        |
| Casualty Company.....        | 9,095,613                                            | 70,487                          | .77                                                     | 37,585                      | 17,534                  | 46.65                                                                        |
| Commerce Mutual.....         | 14,812,715                                           | 628,726                         | 4.24                                                    | 288,664                     | 139,638                 | 48.37                                                                        |
| Consolidated Fire.....       | 11,003,683                                           | 111,704                         | 1.02                                                    | 64,339                      | 31,501                  | 48.96                                                                        |
| Cumberland.....              | 212,650                                              | 3,190                           | 1.50                                                    | 3,136                       | 1,085                   | 34.60                                                                        |
| Dominion Fire.....           | 50,842,091                                           | 445,653                         | .88                                                     | 275,426                     | 107,744                 | 39.12                                                                        |
| Dominion of Canada General   | 50,356,927                                           | 354,730                         | .70                                                     | 179,134                     | 55,087                  | 30.75                                                                        |
| Ensign.....                  | 11,170,564                                           | 103,707                         | .93                                                     | 64,153                      | 24,915                  | 38.84                                                                        |
| Fire Insurance Co. of Canada | 59,279,318                                           | 595,509                         | 1.00                                                    | 282,531                     | 145,990                 | 51.67                                                                        |
| General Accident of Canada.  | 22,211,921                                           | 167,587                         | .75                                                     | 79,534                      | 28,910                  | 36.36                                                                        |
| Globe Indemnity.....         | 68,947,709                                           | 446,131                         | .65                                                     | 159,903                     | 75,806                  | 47.41                                                                        |
| Grain.....                   | 57,819,372                                           | 591,918                         | 1.02                                                    | 483,277                     | 61,573                  | 12.74                                                                        |
| Guardian Insurance.....      | 35,052,914                                           | 240,203                         | .69                                                     | 108,594                     | 63,722                  | 58.68                                                                        |
| Halifax.....                 | 47,050,609                                           | 384,665                         | .82                                                     | 210,159                     | 89,930                  | 42.79                                                                        |
| Hudson Bay.....              | 140,971,963                                          | 711,469                         | .50                                                     | 197,281                     | 98,653                  | 50.01                                                                        |
| Imperial Guarantee.....      | 14,544,965                                           | 82,018                          | .56                                                     | 42,581                      | 22,441                  | 52.70                                                                        |
| Imperial Insurance.....      | 34,086,372                                           | 251,455                         | .74                                                     | 118,800                     | 61,555                  | 51.81                                                                        |



## 2.—Fire Insurance Business Transacted in Canada, by Companies, 1933—continued.

| Company.                      | Gross Amount of Risks Taken during Year. | Premiums Charged thereon. | Rate of Premiums per cent of Risks. | Net Premiums Written. | Net Losses Incurred. | Percentage of Losses Incurred to Premiums Written. |
|-------------------------------|------------------------------------------|---------------------------|-------------------------------------|-----------------------|----------------------|----------------------------------------------------|
| Canadian Companies—concluded. | \$                                       | \$                        | p.c.                                | \$                    | \$                   | p.c.                                               |
| Kings Mutual.                 | 2,800,905                                | 41,556                    | 1.45                                | 40,753                | 16,343               | 40.10                                              |
| Liverpool-Manitoba            | 99,002,020                               | 651,279                   | .66                                 | 255,847               | 121,389              | 47.41                                              |
| London and Lancashire & Globe | 9,379,020                                | 68,396                    | .73                                 | 27,048                | 9,157                | 33.86                                              |
| London-Canada.                | 24,637,805                               | 232,339                   | .94                                 | 136,390               | 78,659               | 57.67                                              |
| Mercantile                    | 46,536,171                               | 253,827                   | .55                                 | 103,523               | 34,329               | 33.16                                              |
| National Liverpool            | 38,225,885                               | 318,099                   | .83                                 | 129,456               | 60,645               | 46.85                                              |
| North Empire                  | 34,972,910                               | 307,491                   | .88                                 | 137,149               | 71,711               | 52.29                                              |
| North West Fire               | 14,915,550                               | 243,378                   | 1.63                                | 67,824                | 36,336               | 53.57                                              |
| Occidental                    | 43,347,554                               | 322,964                   | .75                                 | 142,636               | 80,212               | 56.24                                              |
| Pictou County                 | 39,092,507                               | 412,833                   | 1.06                                | 115,791               | 61,028               | 52.71                                              |
| Pioneer                       | 1,078,150                                | 10,045                    | .93                                 | 9,958                 | 4,744                | 47.64                                              |
| Pontage la Prairie.           | 49,533,566                               | 345,720                   | .70                                 | 110,327               | 55,456               | 50.26                                              |
| Quebec                        | 41,682,623                               | 695,863                   | 1.69                                | 434,794               | 231,389              | 53.22                                              |
| Reliance                      | 18,836,668                               | 134,752                   | .77                                 | 135,570               | 56,425               | 41.62                                              |
| Scottish Canadian.            | 21,431,282                               | 156,588                   | .73                                 | 68,220                | 22,878               | 36.19                                              |
| Trans-Canada                  | 24,167,054                               | 262,419                   | .72                                 | 78,033                | 25,812               | 33.08                                              |
| Wawanesa.                     | 126,167,915                              | 1,332,156                 | 1.06                                | 174,398               | 81,486               | 46.72                                              |
| Western                       | 107,851,786                              | 779,006                   | .72                                 | 852,091               | 430,354              | 50.51                                              |
|                               |                                          |                           |                                     | 438,910               | 235,699              | 53.70                                              |
| <b>Totals, Canadian.</b>      | <b>1,861,841,398</b>                     | <b>16,010,810</b>         | <b>.86</b>                          | <b>7,985,858</b>      | <b>3,693,748</b>     | <b>46.25</b>                                       |
| <b>British Companies.</b>     |                                          |                           |                                     |                       |                      |                                                    |
| Alliance                      | 86,884,907                               | 477,261                   | .55                                 | 409,584               | 167,614              | 40.92                                              |
| Anglo-Scottish.               | 37,267,326                               | 436,730                   | 1.17                                | 147,285               | 75,023               | 50.94                                              |
| Atlas.                        | 118,394,738                              | 749,329                   | .63                                 | 505,493               | 245,700              | 48.61                                              |
| Bankers' and Traders          | 3,493,001                                | 40,294                    | 1.15                                | 35,547                | 11,153               | 31.38                                              |
| British and European.         | 13,099,491                               | 143,415                   | 1.09                                | 42,729                | 22,260               | 52.10                                              |
| British Crown                 | 59,694,736                               | 359,489                   | .60                                 | 258,694               | 178,717              | 69.08                                              |
| British General.              | 28,965,816                               | 272,807                   | .94                                 | 71,254                | 47,260               | 66.33                                              |
| British Law.                  | 54,305,497                               | 158,493                   | .29                                 | 82,419                | 37,760               | 45.81                                              |
| British Oak                   | 17,671,986                               | 145,129                   | .82                                 | 104,288               | 69,706               | 66.84                                              |
| British Traders               | 46,253,373                               | 217,581                   | .47                                 | 153,591               | 67,234               | 43.77                                              |
| Caledonian                    | 50,455,945                               | 391,322                   | .78                                 | 305,111               | 153,645              | 50.36                                              |
| Car and General               | 45,095,890                               | 258,308                   | .56                                 | 143,615               | 48,722               | 33.93                                              |
| Central.                      | 38,508,405                               | 307,038                   | .80                                 | 127,889               | 60,645               | 47.42                                              |
| Century                       | 58,533,905                               | 520,636                   | .89                                 | 134,658               | 106,904              | 79.39                                              |
| China.                        | 5,539,518                                | 29,132                    | .53                                 | 21,164                | 4,634                | 21.90                                              |
| Commercial Union.             | 262,888,637                              | 2,858,537                 | 1.09                                | 676,390               | 343,440              | 50.78                                              |
| Cornhill                      | 41,514,772                               | 280,564                   | .68                                 | 221,781               | 148,824              | 67.10                                              |
| Eagle Star                    | 71,847,862                               | 397,869                   | .55                                 | 311,445               | 118,730              | 38.12                                              |
| Employers' Liability          | 149,272,666                              | 840,877                   | .56                                 | 585,076               | 224,280              | 38.33                                              |
| Essex and Suffolk.            | 44,554,253                               | 273,131                   | .61                                 | 78,835                | 29,722               | 37.70                                              |
| General Accident Fire         | 68,353,656                               | 412,506                   | .60                                 | 277,916               | 147,352              | 53.02                                              |
| Guardian Assurance.           | 124,517,677                              | 1,051,970                 | .84                                 | 784,316               | 449,962              | 57.37                                              |
| Guilddhall.                   | 25,242,879                               | 130,373                   | .52                                 | 63,941                | 37,097               | 58.02                                              |
| Indemnity Mutual Marine       | None                                     | None                      | -                                   | None                  | None                 | -                                                  |
| Law Union and Rock            | 52,490,474                               | 370,699                   | .71                                 | 296,129               | 150,537              | 50.83                                              |
| Legal and General.            | 40,190,882                               | 273,652                   | .68                                 | 191,741               | 115,044              | 60.00                                              |
| Liverpool and London and      |                                          |                           |                                     |                       |                      |                                                    |
| Globe.                        | 678,313,564                              | 4,613,671                 | .68                                 | 1,152,384             | 612,221              | 53.13                                              |
| Local Government.             | 11,169,629                               | 109,743                   | .98                                 | 57,855                | 29,464               | 50.93                                              |
| London and County             | 9,640,331                                | 104,994                   | 1.09                                | 69,181                | 35,591               | 51.45                                              |
| London and Lancashire.        | 214,437,442                              | 1,353,610                 | .63                                 | 1,025,623             | 487,343              | 47.52                                              |
| London and Provincial.        | 5,935,657                                | 53,767                    | .91                                 | 40,925                | 18,138               | 44.32                                              |
| London and Scottish.          | 18,965,493                               | 133,136                   | .70                                 | 80,809                | 38,922               | 44.84                                              |
| London Assurance              | 77,781,245                               | 534,227                   | .69                                 | 368,158               | 197,755              | 53.71                                              |
| London Guarantee.             | 39,957,116                               | 350,654                   | .88                                 | 137,149               | 72,212               | 52.65                                              |
| Marine.                       | None                                     | None                      | -                                   | None                  | None                 | -                                                  |
| Merchants' Marine.            | 39,919,819                               | 221,269                   | .55                                 | 149,434               | 63,316               | 42.37                                              |
| Motor Union.                  | 13,635,703                               | 96,815                    | .71                                 | 66,597                | 29,298               | 43.99                                              |
| National Provincial.          | 25,245,700                               | 178,319                   | .71                                 | 117,969               | 68,578               | 58.39                                              |
| North British.                | 171,641,819                              | 1,085,599                 | .63                                 | 732,365               | 472,415              | 64.61                                              |
| Northern Assurance.           | 88,244,006                               | 613,098                   | .69                                 | 449,833               | 272,374              | 60.55                                              |
| Orwich Union.                 | 139,848,266                              | 1,047,464                 | .75                                 | 781,112               | 410,732              | 52.58                                              |
| Ocean Accident and Guar-      |                                          |                           |                                     |                       |                      |                                                    |
| antee.                        | 44,016,358                               | 336,319                   | .76                                 | 229,721               | 151,673              | 66.02                                              |

## 2.—Fire Insurance Business Transacted in Canada, by Companies, 1933—continued.

| Company.                                 | Gross<br>Amount of<br>Risks Taken<br>during<br>Year. | Premiums<br>Charged<br>thereon. | Rate of<br>Pre-<br>miums<br>per<br>cent<br>of<br>Risks. | Net<br>Premiums<br>Written. | Net Losses<br>Incurred. | Per-<br>cent-<br>age of<br>Losses<br>Incurred<br>to Pre-<br>miums<br>Writ-<br>ten. |
|------------------------------------------|------------------------------------------------------|---------------------------------|---------------------------------------------------------|-----------------------------|-------------------------|------------------------------------------------------------------------------------|
|                                          | \$                                                   | \$                              | p.c.                                                    | \$                          | \$                      | p.c.                                                                               |
| <b>British Companies—<br/>concluded.</b> |                                                      |                                 |                                                         |                             |                         |                                                                                    |
| Palatine.....                            | 62,469,121                                           | 701,968                         | 1.12                                                    | 194,670                     | 123,927                 | 63.66                                                                              |
| Patriotic.....                           | 30,726,547                                           | 202,971                         | .60                                                     | 132,961                     | 85,477                  | 64.29                                                                              |
| Pearl.....                               | 65,966,008                                           | 327,316                         | .50                                                     | 267,056                     | 81,512                  | 30.52                                                                              |
| Phoenix of London.....                   | 287,248,376                                          | 2,075,836                       | .72                                                     | 874,666                     | 582,322                 | 66.58                                                                              |
| Planet.....                              | 22,529,828                                           | 144,322                         | .64                                                     | 73,275                      | 35,235                  | 48.11                                                                              |
| Provincial.....                          | 37,918,335                                           | 363,665                         | .96                                                     | 258,576                     | 172,189                 | 66.59                                                                              |
| Prudential.....                          | 181,276,979                                          | 772,777                         | .43                                                     | 470,936                     | 218,199                 | 46.33                                                                              |
| Queensland.....                          | 765,005                                              | 10,284                          | 1.34                                                    | 9,126                       | 132                     | 1.45                                                                               |
| Railway Passengers.....                  | 9,495,177                                            | 68,554                          | .72                                                     | 40,113                      | 19,683                  | 49.07                                                                              |
| Royal Exchange.....                      | 120,690,153                                          | 707,465                         | .59                                                     | 478,227                     | 230,727                 | 48.25                                                                              |
| Royal Insurance.....                     | 718,393,959                                          | 5,642,425                       | .79                                                     | 1,735,261                   | 773,560                 | 44.58                                                                              |
| Royal Scottish.....                      | 28,835,278                                           | 179,912                         | .62                                                     | 115,798                     | 81,803                  | 70.64                                                                              |
| Scottish Metropolitan.....               | 27,506,661                                           | 202,969                         | .74                                                     | 125,478                     | 50,410                  | 40.17                                                                              |
| Scottish Union.....                      | 52,683,268                                           | 433,637                         | .82                                                     | 357,633                     | 178,130                 | 49.81                                                                              |
| Sea.....                                 | 25,048,447                                           | 133,264                         | .53                                                     | 106,436                     | 63,809                  | 59.95                                                                              |
| Southern.....                            | 9,131,616                                            | 134,718                         | 1.48                                                    | 66,718                      | 20,488                  | 32.15                                                                              |
| State Assurance.....                     | 24,026,241                                           | 135,646                         | .56                                                     | 93,131                      | 48,724                  | 52.32                                                                              |
| Sun Insurance.....                       | 143,861,008                                          | 910,254                         | .63                                                     | 616,832                     | 359,379                 | 58.26                                                                              |
| Union Assurance.....                     | 111,002,437                                          | 1,052,758                       | .95                                                     | 277,431                     | 166,848                 | 60.14                                                                              |
| Union of Canton.....                     | 57,760,905                                           | 358,288                         | .62                                                     | 246,284                     | 95,157                  | 38.64                                                                              |
| Union Marine.....                        | 34,390,156                                           | 301,124                         | .88                                                     | 116,984                     | 64,940                  | 55.51                                                                              |
| United British.....                      | 10,572,024                                           | 79,217                          | .75                                                     | 55,709                      | 23,280                  | 41.79                                                                              |
| Westminster.....                         | 16,674,243                                           | 91,522                          | .55                                                     | None                        | None                    | —                                                                                  |
| World Marine.....                        | 19,694,374                                           | 95,003                          | .48                                                     | 60,902                      | 53,969                  | 88.62                                                                              |
| Yorkshire.....                           | 43,879,614                                           | 373,004                         | .85                                                     | 293,464                     | 137,074                 | 46.71                                                                              |
| <b>Totals, British.....</b>              | <b>5,267,336,200</b>                                 | <b>37,728,666</b>               | <b>.72</b>                                              | <b>18,560,673</b>           | <b>9,689,271</b>        | <b>52.20</b>                                                                       |
| <b>Foreign Companies.</b>                |                                                      |                                 |                                                         |                             |                         |                                                                                    |
| Ætna.....                                | 78,254,352                                           | 410,489                         | .52                                                     | 351,538                     | 274,951                 | 78.21                                                                              |
| Affiliated Underwriters.....             | 16,119,673                                           | 91,348                          | .57                                                     | 76,438                      | 21,263                  | 27.82                                                                              |
| Agricultural.....                        | 19,413,512                                           | 128,656                         | .66                                                     | 72,164                      | 31,982                  | 44.32                                                                              |
| Alliance Insurance.....                  | 82,702,730                                           | 182,447                         | .22                                                     | 111,356                     | 49,538                  | 44.49                                                                              |
| American Alliance.....                   | 17,002,412                                           | 138,463                         | .81                                                     | 47,125                      | 29,162                  | 61.88                                                                              |
| American Central.....                    | 24,776,867                                           | 250,580                         | 1.01                                                    | 83,828                      | 37,500                  | 44.73                                                                              |
| American Colony.....                     | 246,900                                              | 1,848                           | .75                                                     | —44,663                     | —1,398                  | —                                                                                  |
| American Equitable.....                  | 30,606,810                                           | 224,347                         | .73                                                     | 178,204                     | 74,204                  | 41.64                                                                              |
| American Exchange.....                   | 3,640,350                                            | 12,862                          | .35                                                     | —12,640                     | 438                     | 3.47                                                                               |
| American Home Fire.....                  | 11,900,357                                           | 121,393                         | 1.02                                                    | 76,560                      | 69,330                  | 90.56                                                                              |
| American Insurance.....                  | 27,815,939                                           | 153,008                         | .55                                                     | 87,557                      | 44,716                  | 51.07                                                                              |
| American Reserve.....                    | 9,085,491                                            | 101,892                         | 1.12                                                    | 81,597                      | 40,770                  | 49.97                                                                              |
| Automobile.....                          | 990,839                                              | 3,767                           | .38                                                     | 2,730                       | 589                     | 21.58                                                                              |
| Balaise.....                             | 16,840,081                                           | 199,432                         | 1.18                                                    | 134,966                     | 68,655                  | 50.87                                                                              |
| Bee Fire.....                            | 28,774,694                                           | 156,725                         | .54                                                     | 131,790                     | 27,722                  | 21.03                                                                              |
| Boston.....                              | 17,843,292                                           | 95,103                          | .53                                                     | 62,975                      | 26,862                  | 42.66                                                                              |
| Caledonian-American.....                 | 8,583,148                                            | 77,925                          | .91                                                     | 47,413                      | 20,570                  | 43.38                                                                              |
| California.....                          | 19,815,951                                           | 180,363                         | .91                                                     | 40,903                      | 34,800                  | 85.08                                                                              |
| Camden.....                              | 12,015,976                                           | 79,489                          | .66                                                     | 48,956                      | 25,464                  | 52.02                                                                              |
| Central Manufacturers.....               | 11,366,846                                           | 101,185                         | .89                                                     | 74,777                      | 18,397                  | 24.60                                                                              |
| Central Union.....                       | 10,640,408                                           | 95,103                          | .89                                                     | 18,031                      | 5,993                   | 33.24                                                                              |
| Citizens.....                            | 13,609,683                                           | 72,897                          | .54                                                     | 28,273                      | 5,374                   | 19.01                                                                              |
| City of New York.....                    | 13,947,464                                           | 83,619                          | .60                                                     | None                        | None                    | —                                                                                  |
| Columbia.....                            | 24,402,397                                           | 195,256                         | .80                                                     | 68,574                      | 35,856                  | 52.29                                                                              |
| Commercial Union of N.Y.....             | 3,424,756                                            | 38,592                          | 1.13                                                    | 21,683                      | 7,662                   | 35.34                                                                              |
| Connecticut.....                         | 43,338,318                                           | 277,403                         | .64                                                     | 141,014                     | 67,562                  | 47.91                                                                              |
| Continental.....                         | 70,470,217                                           | 422,506                         | .60                                                     | 310,046                     | 149,363                 | 48.17                                                                              |
| County Fire.....                         | 40,959,996                                           | 410,380                         | 1.00                                                    | 11,781                      | 7,291                   | 61.89                                                                              |
| Equitable Fire and Marine.....           | 20,062,743                                           | 117,956                         | .59                                                     | 28,203                      | 13,512                  | 47.91                                                                              |
| Federal.....                             | None                                                 | None                            | —                                                       | None                        | None                    | —                                                                                  |
| Fidelity-Phenix.....                     | 65,028,595                                           | 417,462                         | .64                                                     | 310,733                     | 154,889                 | 49.85                                                                              |
| Fire Association of Penna.....           | 24,505,844                                           | 161,550                         | .66                                                     | 89,562                      | 54,193                  | 60.51                                                                              |
| Fireman's Fund.....                      | 41,690,816                                           | 246,954                         | .59                                                     | 166,992                     | 97,762                  | 58.54                                                                              |
| Firemen's Insurance.....                 | 22,764,043                                           | 224,017                         | .98                                                     | 167,818                     | 68,395                  | 40.76                                                                              |
| Fireproof Sprinklered.....               | 6,688,500                                            | 9,681                           | .14                                                     | 7,704                       | 1,521                   | 19.74                                                                              |
| First American.....                      | 7,543,310                                            | 63,650                          | .84                                                     | 45,613                      | 41,633                  | 91.28                                                                              |
| First National.....                      | 14,867,534                                           | 119,505                         | .80                                                     | None                        | None                    | —                                                                                  |
| La Foncière.....                         | 21,610,730                                           | 216,731                         | 1.00                                                    | 138,208                     | 58,126                  | 42.06                                                                              |

## 2.—Fire Insurance Business Transacted in Canada, by Companies, 1933—continued.

| Company.                                    | Gross Amount of Risks Taken during Year. | Premiums Charged thereon. | Rate of Premiums per cent of Risks. | Net Premiums Written. | Net Losses Incurred. | Percentage of Losses Incurred to Premiums Written. |
|---------------------------------------------|------------------------------------------|---------------------------|-------------------------------------|-----------------------|----------------------|----------------------------------------------------|
|                                             | \$                                       | \$                        | p.c.                                | \$                    | \$                   | p.c.                                               |
| <b>Foreign Companies—continued.</b>         |                                          |                           |                                     |                       |                      |                                                    |
| Franklin.....                               | 15,011,113                               | 149,331                   | .99                                 | None                  | None                 | —                                                  |
| General of Paris.....                       | 32,412,842                               | 275,329                   | .85                                 | 168,471               | 93,501               | 55.50                                              |
| General Insurance of America.....           | 41,770,090                               | 337,123                   | .81                                 | 271,574               | 84,375               | 31.07                                              |
| Girard.....                                 | 4,166,920                                | 38,474                    | .92                                 | 30,199                | 9,764                | 32.33                                              |
| Glens Falls.....                            | 38,582,960                               | 216,829                   | .56                                 | 141,978               | 99,640               | 70.18                                              |
| Globe and Rutgers.....                      | —                                        | —                         | —                                   | —333,885              | 118,082              | —                                                  |
| Granite State.....                          | 6,236,077                                | 42,512                    | .68                                 | 26,814                | 14,388               | 53.66                                              |
| Great American.....                         | 90,445,808                               | 707,444                   | .78                                 | 535,966               | 318,838              | 59.49                                              |
| Hanover.....                                | 25,324,892                               | 129,685                   | .61                                 | 79,828                | 47,403               | 59.38                                              |
| Hardware Dealers'.....                      | 20,208,604                               | 308,429                   | 1.53                                | 238,543               | 64,682               | 27.12                                              |
| Hartford Fire.....                          | 122,197,694                              | 823,436                   | .67                                 | 703,266               | 329,990              | 46.92                                              |
| Home Fire and Marine.....                   | 17,568,340                               | 99,056                    | .56                                 | 74,922                | 31,667               | 42.27                                              |
| Home Insurance.....                         | 206,708,620                              | 1,701,567                 | .82                                 | 1,288,408             | 1,003,069            | 77.85                                              |
| Homestead.....                              | 5,416,955                                | 64,720                    | 1.19                                | None                  | None                 | —                                                  |
| Imperial Assurance.....                     | 52,891,289                               | 345,198                   | .65                                 | 137,149               | 71,711               | 52.29                                              |
| Indiana Lumbermen's.....                    | 4,327,067                                | 62,187                    | 1.44                                | 45,875                | 22,019               | 48.00                                              |
| Individual Underwriters.....                | 34,837,946                               | 89,351                    | .26                                 | 73,784                | 21,518               | 29.16                                              |
| Insurance Co. of North America.....         | 171,991,748                              | 694,520                   | .40                                 | 491,261               | 258,273              | 52.57                                              |
| Insurance Co. of State of Pennsylvania..... | 10,151,509                               | 67,077                    | .66                                 | 19,387                | 37,525               | 193.56                                             |
| Inter-Insurers Exchange.....                | 573,000                                  | 2,241                     | .39                                 | 2,035                 | 433                  | 21.28                                              |
| Lincoln.....                                | 2,502,553                                | 31,747                    | 1.27                                | —19,179               | 24,826               | —                                                  |
| Lumbermen's Insurance.....                  | 13,376,524                               | 100,170                   | .75                                 | 82,561                | 37,445               | 45.35                                              |
| Lumbermen's Mutual Insurance.....           | 6,501,147                                | 85,754                    | 1.32                                | 62,729                | 27,945               | 44.55                                              |
| Lumbermen's Underwriting Alliance.....      | 9,234,631                                | 134,355                   | 1.45                                | 106,582               | 62,249               | 58.40                                              |
| Lumber Mutual.....                          | 8,153,381                                | 118,991                   | 1.46                                | 86,962                | 56,167               | 64.59                                              |
| Manufacturing Lumbermen's.....              | 9,209,838                                | 141,706                   | 1.54                                | 113,314               | 82,953               | 73.21                                              |
| Maryland Insurance.....                     | 10,019,243                               | 92,056                    | .92                                 | 67,964                | 36,305               | 53.42                                              |
| Mechanics' and Traders'.....                | 466,310                                  | 6,548                     | 1.40                                | 504                   | 141                  | 27.96                                              |
| Merchants' and Manufacturers'.....          | 27,725,257                               | 241,137                   | .87                                 | 164,396               | 101,534              | 61.76                                              |
| Merchants' Fire.....                        | 28,938,526                               | 223,815                   | .77                                 | 183,598               | 78,543               | 42.78                                              |
| Mercury.....                                | 16,607,770                               | 104,649                   | .63                                 | 70,988                | 31,235               | 44.00                                              |
| Metropolitan Fire.....                      | 16,873,994                               | 122,369                   | .73                                 | 81,281                | 51,362               | 63.19                                              |
| Metropolitan Inter-Insurers.....            | 20,619,552                               | 56,293                    | .27                                 | 47,649                | 7,909                | 16.60                                              |
| Michigan Fire.....                          | 9,726,800                                | 86,423                    | .89                                 | 28,481                | 19,191               | 67.38                                              |
| Millers' National.....                      | 21,262,612                               | 180,720                   | .85                                 | 142,374               | 52,830               | 37.11                                              |
| Mill Owners'.....                           | 56,375,031                               | 373,517                   | .66                                 | 245,290               | 101,675              | 41.45                                              |
| Minnesota Implement.....                    | 20,208,604                               | 308,429                   | 1.53                                | 238,543               | 64,682               | 27.12                                              |
| National-Ben Franklin.....                  | 22,023,559                               | 222,500                   | 1.01                                | 170,289               | 60,921               | 35.78                                              |
| National Fire of Hartford.....              | 69,159,327                               | 380,393                   | .55                                 | 318,982               | 242,505              | 76.02                                              |
| National Liberty.....                       | 7,563,904                                | 82,780                    | 1.09                                | None                  | None                 | —                                                  |
| National Union.....                         | 19,702,565                               | 127,455                   | .65                                 | 97,871                | 63,833               | 65.22                                              |
| La Nationale.....                           | 51,043,333                               | 545,299                   | 1.07                                | 458,905               | 286,942              | 62.53                                              |
| Newark.....                                 | 60,674,261                               | 419,528                   | .69                                 | 131,261               | 66,192               | 50.43                                              |
| New Brunswick.....                          | 17,285,267                               | 92,016                    | .53                                 | None                  | None                 | —                                                  |
| New Hampshire.....                          | 28,493,918                               | 197,494                   | .69                                 | 125,612               | 81,016               | 64.50                                              |
| New Jersey.....                             | 7,959,100                                | 62,457                    | .78                                 | 50,260                | 17,767               | 35.35                                              |
| New York Fire.....                          | 24,216,308                               | 246,032                   | 1.02                                | 176,789               | 99,987               | 59.16                                              |
| New York Reciprocal.....                    | 30,851,227                               | 63,236                    | .20                                 | 54,220                | 3,997                | 7.37                                               |
| New York Underwriters.....                  | 50,390,305                               | 328,773                   | .65                                 | 32,632                | 11,830               | 36.25                                              |
| Niagara.....                                | 40,093,707                               | 208,702                   | .52                                 | 152,699               | 67,723               | 44.35                                              |
| North River.....                            | 22,448,360                               | 113,116                   | .50                                 | 76,433                | 30,903               | 40.43                                              |
| Northwestern Mutual.....                    | 68,057,437                               | 1,030,261                 | 1.51                                | 613,473               | 262,290              | 42.74                                              |
| Northwestern National.....                  | 28,887,934                               | 288,899                   | 1.00                                | 187,463               | 63,687               | 33.97                                              |
| Ohio Farmers'.....                          | 4,209,189                                | 39,977                    | .95                                 | 34,286                | 12,274               | 35.80                                              |
| Pacific Fire.....                           | 43,089,010                               | 337,852                   | .78                                 | 249,329               | 103,495              | 41.51                                              |
| Pennsylvania Lumbermen's.....               | 5,303,443                                | 74,044                    | 1.40                                | 51,175                | 25,291               | 49.42                                              |
| Phoenix of Paris.....                       | 30,425,784                               | 268,190                   | .88                                 | 155,941               | 89,056               | 57.11                                              |
| Philadelphia.....                           | 6,291,561                                | 49,459                    | .79                                 | 30,936                | 12,529               | 40.50                                              |
| Phoenix of Hartford.....                    | 82,002,455                               | 532,345                   | .65                                 | 235,680               | 111,959              | 47.91                                              |
| Pilot Reinsurance.....                      | None                                     | None                      | —                                   | None                  | None                 | —                                                  |
| Providence of Paris.....                    | 15,792,103                               | 99,900                    | .63                                 | 68,577                | 29,680               | 43.28                                              |

<sup>1</sup>Not available for the three months during which the company wrote business in 1933.

## 2.—Fire Insurance Business Transacted in Canada, by Companies, 1933—concluded.

| Company.                            | Gross Amount of Risks Taken during Year. | Premiums Charged thereon. | Rate of Premiums per cent of Risks. | Net Premiums Written. | Net Losses Incurred. | Percentage of Losses Incurred to Premiums Written. |
|-------------------------------------|------------------------------------------|---------------------------|-------------------------------------|-----------------------|----------------------|----------------------------------------------------|
|                                     | \$                                       | \$                        | p.c.                                | \$                    | \$                   | p.c.                                               |
| <b>Foreign Companies—concluded.</b> |                                          |                           |                                     |                       |                      |                                                    |
| Providence Washington.....          | 24,976,011                               | 127,475                   | -51                                 | 72,902                | 50,248               | 68.93                                              |
| Queen of America.....               | 246,186,154                              | 1,664,978                 | -68                                 | 576,437               | 283,464              | 49.18                                              |
| Retail Hardware.....                | 20,208,604                               | 308,429                   | 1.52                                | 238,543               | 64,682               | 27.12                                              |
| Retail Lumbermen's.....             | 5,092,647                                | 42,280                    | -83                                 | 32,283                | 6,016                | 18.64                                              |
| Rhode Island.....                   | 8,320,884                                | 77,301                    | -93                                 | 53,846                | 15,455               | 28.70                                              |
| Rossia.....                         | 27,718,806                               | 220,635                   | -80                                 | 127,164               | 70,604               | 55.39                                              |
| St. Paul Fire.....                  | 43,780,124                               | 248,167                   | -57                                 | 159,926               | 84,365               | 52.75                                              |
| Security.....                       | 19,747,980                               | 132,168                   | -67                                 | 75,780                | 38,417               | 50.70                                              |
| Sentinel.....                       | 12,373,610                               | 81,244                    | -66                                 | 7,120                 | 4,798                | 67.39                                              |
| Springfield.....                    | 70,049,487                               | 464,690                   | -66                                 | 273,775               | 178,510              | 65.20                                              |
| Stuyvesant.....                     | 6,430,082                                | 54,231                    | -84                                 | -102,734              | 16,920               | -                                                  |
| Sussex.....                         | 5,941,127                                | 62,025                    | 1.04                                | 48,182                | 25,001               | 51.91                                              |
| Svea.....                           | 26,500                                   | 142                       | -54                                 | -7,838                | -172                 | -                                                  |
| Tokio.....                          | 10,262,582                               | 41,365                    | -40                                 | 35,316                | 19,718               | 55.83                                              |
| Transcontinental.....               | 4,613,540                                | 25,319                    | -55                                 | 19,586                | 10,580               | 54.02                                              |
| Travelers' Fire.....                | 32,392,937                               | 186,829                   | -58                                 | 151,311               | 41,119               | 27.18                                              |
| Underwriters Exchange.....          | 3,773,000                                | 11,366                    | -30                                 | 9,798                 | 602                  | 6.14                                               |
| L'Union of Paris.....               | 31,433,712                               | 214,043                   | -68                                 | 173,072               | 121,361              | 70.12                                              |
| United Firemen's.....               | 16,406,851                               | 134,799                   | -82                                 | 68,574                | 35,856               | 52.29                                              |
| United Mutual.....                  | 11,847,203                               | 170,046                   | 1.44                                | 104,080               | 55,775               | 53.59                                              |
| United States Fire.....             | 54,557,802                               | 354,401                   | -65                                 | 256,210               | 147,993              | 57.76                                              |
| Universal.....                      | None                                     | None                      | -                                   | -309                  | None                 | -                                                  |
| L'Urbaine.....                      | 20,004,123                               | 102,409                   | -51                                 | 86,322                | 42,593               | 49.34                                              |
| Westchester.....                    | 29,901,317                               | 166,727                   | -56                                 | 93,130                | 54,145               | 58.14                                              |
| World Fire and Marine.....          | 11,613,542                               | 89,985                    | -77                                 | 71,468                | 38,077               | 53.28                                              |
| <b>Totals, Foreign.....</b>         | <b>3,515,609,503</b>                     | <b>25,240,534</b>         | <b>-72</b>                          | <b>15,027,458</b>     | <b>8,272,440</b>     | <b>55.05</b>                                       |
| <b>Grand Totals.....</b>            | <b>10,644,787,101</b>                    | <b>78,980,010</b>         | <b>-74</b>                          | <b>41,573,989</b>     | <b>21,655,459</b>    | <b>52.09</b>                                       |

## 3.—Assets of Canadian Companies Selling Fire Insurance, or Fire Insurance and other Classes of Insurance, and Assets in Canada of Companies other than Canadian Transacting such Business in Canada, 1929-33.

| Item.                                          | 1929.             | 1930.             | 1931.             | 1932.             | 1933.             |
|------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                                | \$                | \$                | \$                | \$                | \$                |
| <b>Canadian Companies.</b>                     |                   |                   |                   |                   |                   |
| Real estate.....                               | 2,425,285         | 2,511,558         | 2,511,543         | 2,525,736         | 2,085,756         |
| Loans on real estate.....                      | 3,229,804         | 1,778,085         | 1,735,227         | 1,623,502         | 1,220,132         |
| Stocks, bonds and debentures.....              | 46,724,485        | 48,499,291        | 45,313,224        | 44,960,198        | 44,080,324        |
| Agents' balances and premiums outstanding..... | 4,272,065         | 4,388,152         | 3,775,499         | 3,378,107         | 3,200,097         |
| Cash on hand and in banks <sup>1</sup> .....   | 4,937,126         | 4,735,137         | 5,199,251         | 4,429,593         | 4,782,809         |
| Interest and rents.....                        | 531,186           | 559,546           | 539,846           | 537,858           | 511,366           |
| Other assets.....                              | 4,863,564         | 4,879,270         | 4,288,504         | 4,049,393         | 4,295,782         |
| <b>Totals, Assets.....</b>                     | <b>66,983,515</b> | <b>67,351,039</b> | <b>63,363,094</b> | <b>61,504,387</b> | <b>60,176,266</b> |
| <b>British Companies.</b>                      |                   |                   |                   |                   |                   |
| Real estate.....                               | 2,998,944         | 3,006,944         | 2,992,944         | 2,914,810         | 2,935,910         |
| Loans on real estate.....                      | 2,570,318         | 2,256,382         | 2,776,577         | 2,879,540         | 2,738,679         |
| Stocks, bonds and debentures.....              | 43,887,793        | 46,793,525        | 46,630,770        | 46,647,883        | 46,925,785        |
| Agents' balances and premiums outstanding..... | 5,394,016         | 5,039,725         | 4,466,151         | 4,181,109         | 3,890,121         |
| Cash on hand and in banks <sup>1</sup> .....   | 5,664,481         | 5,077,833         | 4,243,425         | 3,224,750         | 3,916,951         |
| Interest and rents.....                        | 329,998           | 323,866           | 299,431           | 330,703           | 293,893           |
| Other assets in Canada.....                    | 770,214           | 1,098,075         | 1,196,188         | 1,235,939         | 1,022,852         |
| <b>Totals, Assets in Canada.....</b>           | <b>61,615,764</b> | <b>63,596,350</b> | <b>62,605,486</b> | <b>61,414,734</b> | <b>61,723,691</b> |

<sup>1</sup>Or deposited with the Government.



**3.—Assets of Canadian Companies Selling Fire Insurance, or Fire Insurance and other Classes of Insurance, and Assets in Canada of Companies other than Canadian Transacting such Business in Canada, 1929-33—concluded.**

| Item.                                          | 1929.              | 1930.              | 1931.              | 1932.              | 1933.              |
|------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                                | \$                 | \$                 | \$                 | \$                 | \$                 |
| <b>Foreign Companies.</b>                      |                    |                    |                    |                    |                    |
| Real estate.....                               | —                  | —                  | —                  | —                  | —                  |
| Loans on real estate.....                      | 13,000             | 13,000             | 13,000             | 13,000             | 13,000             |
| Stocks, bonds and debentures.....              | 31,244,947         | 35,828,399         | 36,685,893         | 36,808,509         | 34,133,891         |
| Agents' balances and premiums outstanding..... | 3,428,161          | 3,534,565          | 3,404,319          | 3,000,938          | 2,695,116          |
| Cash on hand and in banks <sup>1</sup> .....   | 7,014,035          | 5,730,878          | 6,101,626          | 6,342,273          | 5,409,339          |
| Interest and rents.....                        | 328,536            | 378,566            | 341,324            | 319,977            | 296,283            |
| Other assets in Canada.....                    | 133,228            | 187,056            | 270,017            | 256,425            | 199,810            |
| <b>Totals, Assets in Canada.....</b>           | <b>42,161,907</b>  | <b>45,672,464</b>  | <b>46,816,179</b>  | <b>46,741,122</b>  | <b>42,747,439</b>  |
| <b>All Companies.</b>                          |                    |                    |                    |                    |                    |
| Real estate.....                               | 5,424,229          | 5,518,502          | 5,504,487          | 5,440,546          | 5,021,666          |
| Loans on real estate.....                      | 5,813,122          | 4,047,467          | 4,524,804          | 4,516,042          | 3,971,811          |
| Stocks, bonds and debentures.....              | 121,857,224        | 131,121,215        | 128,629,887        | 128,416,590        | 125,140,000        |
| Agents' balances and premiums outstanding..... | 13,094,242         | 12,962,442         | 11,645,969         | 10,560,154         | 9,785,334          |
| Cash on hand and in banks <sup>1</sup> .....   | 17,615,642         | 15,543,848         | 15,544,302         | 13,996,616         | 14,109,099         |
| Interest and rents.....                        | 1,189,720          | 1,261,978          | 1,180,601          | 1,188,538          | 1,101,042          |
| Other assets in Canada.....                    | 5,767,006          | 6,164,401          | 5,754,709          | 5,541,757          | 5,518,444          |
| <b>Totals, Assets in Canada.....</b>           | <b>170,761,185</b> | <b>176,619,853</b> | <b>172,784,759</b> | <b>169,669,243</b> | <b>164,647,396</b> |

<sup>1</sup>Or deposited with the Government.

**4.—Liabilities of Canadian Companies Selling Fire Insurance, or Fire Insurance and other Classes of Insurance, and Liabilities in Canada of Companies other than Canadian Transacting such Business in Canada, 1929-33.**

| Item.                                                            | 1929.             | 1930.             | 1931.             | 1932.             | 1933.             |
|------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                                                  | \$                | \$                | \$                | \$                | \$                |
| <b>Canadian Companies.</b>                                       |                   |                   |                   |                   |                   |
| Reserve for unsettled losses.....                                | 5,074,467         | 5,236,160         | 5,413,329         | 5,135,795         | 4,871,034         |
| Reserve of unearned premiums.....                                | 15,578,583        | 15,461,848        | 14,750,374        | 13,747,055        | 12,765,072        |
| Sundry items.....                                                | 6,122,091         | 6,359,644         | 7,671,793         | 7,590,953         | 7,197,726         |
| <b>Totals, Liabilities, not Including Capital.....</b>           | <b>26,775,141</b> | <b>27,057,652</b> | <b>27,835,496</b> | <b>26,473,803</b> | <b>24,833,832</b> |
| Excess of assets over liabilities, excluding capital.....        | 40,208,374        | 40,293,387        | 35,527,597        | 35,030,584        | 35,342,433        |
| Capital stock paid up.....                                       | 17,304,479        | 17,383,197        | 17,787,337        | 17,076,446        | 16,741,004        |
| <b>British Companies.</b>                                        |                   |                   |                   |                   |                   |
| Reserve for unsettled losses.....                                | 5,639,411         | 5,529,407         | 5,465,151         | 4,639,231         | 4,225,657         |
| Reserve of unearned premiums.....                                | 21,901,257        | 20,782,701        | 19,184,178        | 18,058,163        | 16,774,248        |
| Sundry items.....                                                | 1,606,263         | 1,821,925         | 3,566,704         | 3,009,101         | 1,959,979         |
| <b>Totals, Liabilities in Canada.....</b>                        | <b>29,146,931</b> | <b>28,134,033</b> | <b>28,216,033</b> | <b>25,706,495</b> | <b>22,959,884</b> |
| Excess of assets over liabilities, excluding capital.....        | 32,468,833        | 85,462,316        | 34,389,452        | 35,708,239        | 38,763,807        |
| Capital stock paid up.....                                       | —                 | —                 | —                 | —                 | —                 |
| <b>Foreign Companies.</b>                                        |                   |                   |                   |                   |                   |
| Reserve for unsettled losses.....                                | 2,161,713         | 2,303,806         | 2,140,705         | 2,411,555         | 1,832,977         |
| Reserve of unearned premiums.....                                | 13,509,480        | 13,254,976        | 13,183,442        | 12,334,525        | 10,678,271        |
| Sundry items.....                                                | 950,737           | 996,381           | 1,048,678         | 990,333           | 918,349           |
| <b>Totals, Liabilities in Canada.....</b>                        | <b>16,621,930</b> | <b>16,555,163</b> | <b>16,372,825</b> | <b>15,736,413</b> | <b>13,429,597</b> |
| Excess of assets over liabilities, excluding capital.....        | 25,538,977        | 29,117,300        | 30,443,354        | 31,004,709        | 29,317,842        |
| Capital stock paid up.....                                       | —                 | —                 | —                 | —                 | —                 |
| <b>All Companies.</b>                                            |                   |                   |                   |                   |                   |
| Reserve for unsettled losses.....                                | 12,875,591        | 13,069,373        | 13,019,185        | 12,186,581        | 10,929,668        |
| Reserve of unearned premiums.....                                | 50,989,320        | 49,499,525        | 47,117,994        | 44,139,743        | 40,217,591        |
| Sundry items.....                                                | 8,679,091         | 9,177,950         | 12,287,175        | 11,590,387        | 10,076,054        |
| <b>Totals, Liabilities in Canada, not Including Capital.....</b> | <b>72,544,002</b> | <b>71,746,848</b> | <b>72,424,354</b> | <b>67,916,711</b> | <b>61,223,313</b> |
| Excess of assets over liabilities, excluding capital.....        | 98,216,184        | 154,873,003       | 100,360,403       | 101,743,532       | 103,424,082       |
| Capital stock paid up <sup>1</sup> .....                         | 17,304,479        | 17,383,197        | 17,787,337        | 17,076,446        | 16,741,004        |

<sup>1</sup>Canadian companies only.

**5.—Income and Expenditure of Canadian Companies Selling Fire Insurance, or Fire Insurance and other Classes of Insurance, and Income and Expenditure in Canada of Companies other than Canadian Transacting such Business in Canada, 1929-33.**

| Item.                                               | 1929.             | 1930.             | 1931.             | 1932.             | 1933.             |
|-----------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                                     | \$                | \$                | \$                | \$                | \$                |
| <b>INCOME.</b>                                      |                   |                   |                   |                   |                   |
| <b>Canadian Companies.</b>                          |                   |                   |                   |                   |                   |
| Net premiums written, Fire and other insurance..... | 29,535,545        | 28,685,788        | 26,640,708        | 24,197,136        | 22,304,621        |
| Interest and dividends earned.....                  | 2,755,933         | 2,848,595         | 2,760,482         | 2,429,914         | 2,243,109         |
| Sundry items.....                                   | 3,974,197         | 1,464,070         | 1,267,791         | 1,011,964         | 1,667,657         |
| <b>Totals, Income.....</b>                          | <b>36,265,675</b> | <b>32,998,453</b> | <b>30,668,981</b> | <b>27,639,014</b> | <b>26,215,387</b> |
| <b>British Companies.<sup>1</sup></b>               |                   |                   |                   |                   |                   |
| Net cash for premiums.....                          | 40,058,966        | 36,695,357        | 32,297,387        | 28,944,515        | 26,482,370        |
| Interest and dividends on stocks, etc.....          | 1,814,056         | 1,864,956         | 1,792,392         | 1,660,570         | 1,418,894         |
| Sundry items.....                                   | 149               | 1,021             | 613               | 6,697             | 7,644             |
| <b>Totals, Income<sup>1</sup>.....</b>              | <b>41,873,171</b> | <b>38,561,332</b> | <b>34,099,392</b> | <b>30,611,782</b> | <b>27,908,908</b> |
| <b>Foreign Companies.<sup>1</sup></b>               |                   |                   |                   |                   |                   |
| Net premiums written.....                           | 26,186,699        | 25,194,339        | 23,023,408        | 21,013,821        | 17,020,224        |
| Interest and dividends earned, etc.....             | 1,426,353         | 1,538,774         | 1,470,804         | 1,463,149         | 1,434,697         |
| Sundry items.....                                   | 6,147             | 1,985             | 3,995             | 40,120            | 12,067            |
| <b>Totals, Income<sup>1</sup>.....</b>              | <b>27,619,199</b> | <b>26,735,098</b> | <b>24,498,207</b> | <b>22,517,090</b> | <b>18,466,988</b> |
| <b>EXPENDITURE.</b>                                 |                   |                   |                   |                   |                   |
| <b>Canadian Companies.</b>                          |                   |                   |                   |                   |                   |
| Incurred for losses (Fire).....                     | 7,657,105         | 8,295,493         | 8,428,505         | 7,334,323         | 5,535,097         |
| General expenses (Fire).....                        | 8,121,625         | 8,796,488         | 9,322,508         | 6,863,370         | 7,022,317         |
| On account of branches other than Fire or Life..... | 13,585,866        | 14,333,965        | 14,390,806        | 12,207,206        | 11,535,019        |
| Dividends or bonus to shareholders.....             | 1,491,558         | 1,480,357         | 3,244,089         | 1,474,712         | 958,223           |
| Taxes.....                                          | 735,357           | 822,900           | 775,942           | 1,042,411         | 1,005,538         |
| <b>Totals, Expenditure.....</b>                     | <b>31,591,511</b> | <b>33,729,203</b> | <b>36,161,856</b> | <b>28,922,022</b> | <b>26,056,194</b> |
| Excess of income over expenditure.....              | 4,674,164         | -730,750          | -5,492,869        | -1,283,008        | 159,193           |
| <b>British Companies.<sup>1</sup></b>               |                   |                   |                   |                   |                   |
| Incurred for losses (Fire).....                     | 14,237,389        | 13,608,322        | 13,131,973        | 12,495,764        | 9,689,271         |
| General expenses (Fire).....                        | 10,579,134        | 10,154,554        | 9,684,462         | 8,626,703         | 8,584,709         |
| On account of branches other than Fire or Life..... | 12,639,292        | 12,176,221        | 10,828,756        | 8,170,740         | 7,670,487         |
| Taxes.....                                          | 917,127           | 953,010           | 908,673           | 1,233,827         | 1,129,150         |
| <b>Totals, Expenditure<sup>1</sup>.....</b>         | <b>38,372,942</b> | <b>36,892,107</b> | <b>34,553,864</b> | <b>30,527,034</b> | <b>27,073,617</b> |
| Excess of income over expenditure.....              | 3,500,229         | 1,669,225         | -463,472          | 84,748            | 835,291           |
| <b>Foreign Companies.<sup>1</sup></b>               |                   |                   |                   |                   |                   |
| Incurred for losses (Fire).....                     | 11,459,589        | 11,943,324        | 11,757,919        | 12,969,086        | 8,272,440         |
| General expenses (Fire) <sup>2</sup> .....          | 8,595,696         | 8,727,443         | 8,871,031         | 7,692,132         | 7,187,426         |
| On account of branches other than Fire or Life..... | 4,166,589         | 5,569,255         | 3,360,589         | 2,308,319         | 1,737,754         |
| Taxes.....                                          | 743,442           | 724,449           | 735,956           | 1,030,117         | 919,544           |
| <b>Totals, Expenditure<sup>1</sup>.....</b>         | <b>24,965,316</b> | <b>26,964,471</b> | <b>24,725,495</b> | <b>23,999,654</b> | <b>18,117,164</b> |
| Excess of income over expenditure.....              | 2,653,883         | -229,373          | -227,288          | -1,482,564        | 349,824           |

<sup>1</sup>Income and expenditure in Canada. <sup>2</sup>Including dividends returned to policyholders.

**6.—Amounts of Net Premiums Written and Net Losses Incurred in Canada by Canadian, British and Foreign Companies Transacting Fire Insurance Business, by Provinces, 1932 and 1933.**

(Licensed re-insurance deducted.)

| Province.                      | Canadian.        |                  | British.          |                   | Foreign.          |                   |
|--------------------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|
|                                | Premiums.        | Losses.          | Premiums.         | Losses.           | Premiums.         | Losses.           |
|                                | \$               | \$               | \$                | \$                | \$                | \$                |
| <b>1932.</b>                   |                  |                  |                   |                   |                   |                   |
| P.E. Island.....               | 37,873           | 61,677           | 145,843           | 202,713           | 74,930            | 78,205            |
| Nova Scotia.....               | 372,121          | 282,186          | 919,058           | 498,736           | 925,901           | 588,354           |
| New Brunswick.....             | 265,218          | 153,726          | 893,990           | 417,955           | 704,318           | 441,307           |
| Quebec.....                    | 1,916,073        | 1,411,334        | 5,057,052         | 4,596,287         | 5,191,910         | 4,162,712         |
| Ontario.....                   | 3,214,245        | 1,821,621        | 7,166,521         | 4,288,762         | 5,578,469         | 4,497,247         |
| Manitoba.....                  | 968,267          | 364,814          | 1,346,132         | 384,547           | 1,161,248         | 414,601           |
| Saskatchewan.....              | 1,223,235        | 478,782          | 1,320,739         | 498,389           | 1,221,760         | 484,570           |
| Alberta.....                   | 871,297          | 458,769          | 1,415,495         | 705,134           | 1,374,616         | 864,752           |
| British Columbia.....          | 726,568          | 398,712          | 2,139,289         | 902,239           | 1,735,181         | 1,437,698         |
| Yukon.....                     | 2,603            | None             | 7,122             | None              | 3,276             | 100               |
| <b>Totals<sup>1</sup>.....</b> | <b>9,643,532</b> | <b>5,431,658</b> | <b>20,413,468</b> | <b>12,495,757</b> | <b>18,052,407</b> | <b>12,969,078</b> |
| <b>1933.</b>                   |                  |                  |                   |                   |                   |                   |
| P.E. Island.....               | 39,889           | 14,279           | 142,055           | 69,302            | 56,698            | 16,878            |
| Nova Scotia.....               | 327,542          | 242,597          | 836,032           | 493,335           | 747,037           | 599,043           |
| New Brunswick.....             | 210,205          | 184,854          | 839,430           | 730,224           | 540,189           | 727,990           |
| Quebec.....                    | 1,846,097        | 1,202,940        | 4,755,315         | 3,452,116         | 4,295,420         | 2,912,140         |
| Ontario.....                   | 3,049,221        | 1,572,239        | 6,518,562         | 3,340,544         | 4,675,530         | 2,502,734         |
| Manitoba.....                  | 934,268          | 315,894          | 1,222,325         | 370,459           | 974,399           | 334,447           |
| Saskatchewan.....              | 1,163,167        | 375,199          | 1,074,110         | 447,905           | 978,541           | 365,664           |
| Alberta.....                   | 853,079          | 285,104          | 1,264,354         | 516,837           | 1,224,097         | 456,790           |
| British Columbia.....          | 705,943          | 260,068          | 1,890,090         | 597,249           | 1,510,270         | 492,380           |
| Yukon.....                     | 2,424            | 5                | 9,297             | 11                | 11,651            | 21                |
| <b>Totals<sup>1</sup>.....</b> | <b>9,149,956</b> | <b>4,453,179</b> | <b>18,560,674</b> | <b>10,030,930</b> | <b>15,027,458</b> | <b>8,421,309</b>  |

<sup>1</sup>Totals include in many cases small items unapportioned by provinces.

**Summary of Fire Insurance in Canada, 1933.**—Of the total amount of fire insurance effected in Canada during each year, a part is sold by companies holding provincial licences and permits. Such companies generally confine their operations to the province of incorporation, but may be allowed to sell insurance in other provinces. The bulk of fire insurance business, however, is transacted by companies registered by the Dominion. Operations in 1933 are summarized in Table 7.

**7.—Dominion and Provincial Fire Insurance in Canada, 1933.**

| Item.                                                                                          | Net Insurance Written. | Net in Force at end of Year. | Net Premiums Received. | Net Losses Paid.  |
|------------------------------------------------------------------------------------------------|------------------------|------------------------------|------------------------|-------------------|
|                                                                                                | \$                     | \$                           | \$                     | \$                |
| 1. Dominion Licensees.....                                                                     | 10,644,787,101         | 9,008,262,736                | 41,573,986             | 21,655,460        |
| 2. Provincial Licensees—                                                                       |                        |                              |                        |                   |
| (a) Provincial Companies within provinces by which they are incorporated.....                  | 423,196,396            | 1,130,113,820                | 4,938,653              | 3,324,021         |
| (b) Provincial Companies within provinces other than those by which they are incorporated..... | 28,322,661             | 60,066,606                   | 400,899                | 235,169           |
| Totals, Provincial Licensees.....                                                              | 451,519,057            | 1,190,180,426                | 5,339,552              | 3,559,190         |
| <b>Grand Totals.....</b>                                                                       | <b>11,096,306,158</b>  | <b>10,198,443,162</b>        | <b>46,913,538</b>      | <b>25,214,650</b> |

**8.—Fire Insurance Carried on Property in Canada in 1933, by Companies, Associations, or Underwriters not Registered under Section 148 of the Canadian and British Insurance Companies Act, 1932, or Section 65 of the Foreign Insurance Companies Act, 1932, to Transact Business in Canada.**

|                                                                                     |             |                       | \$                             |
|-------------------------------------------------------------------------------------|-------------|-----------------------|--------------------------------|
| <b>Amount by Classes of Insurers—</b>                                               |             |                       |                                |
| Lloyd's Associations.....                                                           |             |                       | 47,676,750                     |
| Reciprocal Underwriters.....                                                        |             |                       | 1,034,000                      |
| Mutual Companies.....                                                               |             |                       | 365,439,201                    |
| Stock Companies.....                                                                |             |                       | 28,676,960                     |
| <b>Total.....</b>                                                                   |             |                       | <b>442,826,911</b>             |
| <b>Amount by Description of Properties Insured—</b>                                 |             |                       |                                |
| Lumber and Lumber Mills.....                                                        |             |                       | 533,497                        |
| Industrial Plants and Mercantile Establishments.....                                |             |                       | 424,411,990                    |
| Miscellaneous (including Railway Property and Equipment, Grain and Grain Elevators) |             |                       | 17,881,424                     |
| <b>Total.....</b>                                                                   |             |                       | <b>442,826,911</b>             |
| <b>Amount by Provinces—</b>                                                         |             |                       |                                |
|                                                                                     | \$          |                       | \$                             |
| Prince Edward Island.....                                                           | -           | Saskatchewan.....     | 13,580,633                     |
| Nova Scotia.....                                                                    | 5,771,857   | Alberta.....          | 3,626,415                      |
| New Brunswick.....                                                                  | 13,747,532  | British Columbia..... | 8,699,701                      |
| Quebec.....                                                                         | 168,550,068 | Yukon.....            | -                              |
| Ontario.....                                                                        | 206,644,706 | <b>Total.....</b>     | <b>442,826,911<sup>1</sup></b> |
| Manitoba.....                                                                       | 2,215,699   |                       |                                |

<sup>1</sup>Includes \$19,990,300 unapportioned by provinces.

## Section 2.—Life Insurance.

An article descriptive of the growth and development of life insurance in Canada, contributed by A. D. Watson, of the Department of Insurance, Ottawa, appeared on pp. 937-944 of the Canada Year Book, 1933.

**Life Insurance Statistics.**—Life insurance business was transacted in Canada in 1933 by 42 companies licensed by the Dominion, including 27 Canadian, 6 British and 9 foreign companies. There were also 6 British and 5 foreign companies registered to write insurance but which had practically ceased to write new insurance, while 4 other British and 4 other foreign companies were authorized under the Act to transact business in connection with policies written prior to Mar. 31, 1878. One British company which retired as a writer of new insurance in 1878 has ceased all operations and has withdrawn from Canada. One foreign company, which also retired in 1878, was placed in the hands of a receiver in 1933 and has since reinsured all its Canadian policies with a Canadian company. One other foreign company was licensed to transact business in 1931, but has not yet written any life insurance business in Canada.

As shown by the historical statistics of Table 9, life insurance business in Canada has expanded from very small beginnings, the total net life insurance in force in all companies licensed by the Dominion in 1869 being only \$35,680,082, while in 1933 it was \$6,247,625,974,\* the amount per head of the estimated population of Canada having more than doubled since 1919 - an evidence of the general

\*This total does not include \$170,713,510 of fraternal insurance. Preliminary figures for 1934 indicate \$6,220,102,835 of life insurance in force in Dominion companies not including \$167,559,340 of fraternal insurance.

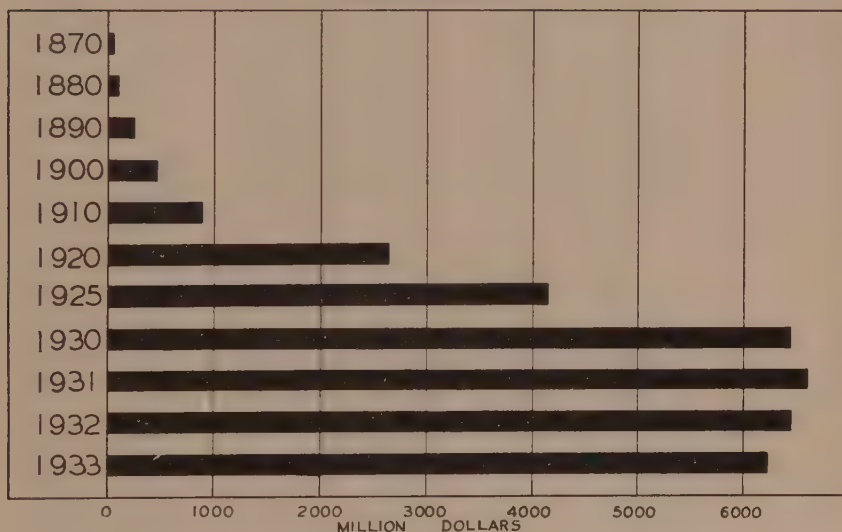


recognition of the value of life insurance for the adequate protection of dependants against misfortune. Notable also from these historical statistics is the fact that in this field British companies, which were the leaders in 1869, have fallen far behind the Canadian and the foreign companies. The total net amount of new insurance effected during the year 1933 was \$578,585,659\*, as compared with \$653,249,366 in 1932, \$782,716,064 in 1931, \$884,749,748 in 1930 and \$978,141,485 in 1929, while the premiums paid were \$206,954,224, as compared with \$216,132,957 in 1932, \$225,100,571 in 1931, \$220,523,727 in 1930 and \$210,728,479 in 1929.

The following diagram shows the rapid increase of life insurance in force in companies licensed by the Dominion between 1870 and 1931, and the slight decline between the latter year and 1933.

### LIFE INSURANCE IN FORCE IN CANADA 1870-1933

DOMINION COMPANIES



In Table 10 detailed statistics are given of the business of Canadian, British and foreign companies, respectively, by companies, in 1933, while Table 11 is a summary showing the business of Canadian, British and foreign companies for the past 5 years. Table 12 shows the ordinary and industrial policies in force and effected during the year ended Dec. 31, 1933. Table 13 gives the insurance death-rate by classes of companies, and Tables 14, 15 and 16 show, respectively, the assets, liabilities, cash income and expenditure of Canadian and other life insurance companies for the years 1929-33. Statistics of Dominion fraternal insurance are given in Table 17 and of Dominion and provincial insurance combined in Table 18, which shows that on Dec. 31, 1933, the total life insurance in force in Canada was \$6,589,133,575.

\*The net amount of new insurance effected in 1934 was \$596,062,050 according to preliminary figures. This is the first time an increase has been indicated since 1929.

9.—Life Insurance in Force and Effectuated in Canada, calendar years 1869-1933.<sup>1</sup>

| Year.             | Net Amounts in Force. |                    |                    |               | Insurance in Force per Head of Estimated Population. <sup>2</sup> | Net Amount of New Insurance Effectuated during Year. |
|-------------------|-----------------------|--------------------|--------------------|---------------|-------------------------------------------------------------------|------------------------------------------------------|
|                   | Canadian Companies.   | British Companies. | Foreign Companies. | Total.        |                                                                   |                                                      |
|                   | \$                    | \$                 | \$                 | \$            | \$                                                                | \$                                                   |
| 1869              | 5,476,358             | 16,318,475         | 13,885,249         | 35,680,082    | 10-01                                                             | 12,854,132                                           |
| 1870              | 6,404,437             | 17,391,922         | 18,898,353         | 42,694,712    | 11-78                                                             | 12,194,696                                           |
| 1871              | 8,711,111             | 18,405,325         | 18,709,499         | 45,825,935    | 12-42                                                             | 13,332,626                                           |
| 1872              | 13,070,811            | 19,258,166         | 34,905,707         | 67,234,684    | 17-91                                                             | 21,070,101                                           |
| 1873              | 15,777,197            | 18,862,191         | 42,861,508         | 77,500,896    | 20-26                                                             | 21,053,618                                           |
| 1874              | 19,634,319            | 19,863,867         | 46,218,139         | 85,716,325    | 22-01                                                             | 19,108,221                                           |
| 1875              | 21,957,296            | 19,455,607         | 43,596,361         | 85,009,264    | 21-50                                                             | 15,074,258                                           |
| 1876              | 24,649,284            | 18,873,173         | 40,728,461         | 84,250,918    | 21-02                                                             | 13,890,127                                           |
| 1877              | 26,870,224            | 19,349,204         | 39,468,475         | 85,687,903    | 21-08                                                             | 13,534,667                                           |
| 1878              | 28,656,556            | 20,078,533         | 38,016,848         | 84,751,937    | 20-57                                                             | 12,169,755                                           |
| 1879              | 33,246,543            | 19,410,829         | 33,616,330         | 86,273,702    | 20-62                                                             | 11,354,224                                           |
| 1880              | 37,838,518            | 19,789,863         | 33,643,745         | 91,272,126    | 21-45                                                             | 13,906,887                                           |
| 1881              | 46,041,591            | 20,983,092         | 36,266,249         | 103,290,932   | 23-88                                                             | 17,618,011                                           |
| 1882              | 53,855,051            | 22,329,368         | 38,857,629         | 115,042,048   | 26-30                                                             | 20,112,755                                           |
| 1883              | 59,213,609            | 23,511,712         | 41,471,554         | 124,196,875   | 28-04                                                             | 21,572,960                                           |
| 1884              | 66,519,958            | 24,317,172         | 44,616,596         | 135,453,726   | 30-19                                                             | 23,303,412                                           |
| 1885              | 74,591,139            | 25,930,272         | 49,440,735         | 149,962,146   | 33-05                                                             | 26,767,488                                           |
| 1886              | 88,181,859            | 27,225,607         | 55,908,230         | 171,315,696   | 37-41                                                             | 34,800,598                                           |
| 1887              | 101,796,754           | 28,163,329         | 61,734,187         | 191,694,270   | 41-44                                                             | 37,381,810                                           |
| 1888              | 114,034,279           | 30,003,210         | 67,724,094         | 211,761,583   | 45-27                                                             | 40,923,529                                           |
| 1889              | 125,125,692           | 30,488,618         | 76,349,392         | 231,963,702   | 49-05                                                             | 43,912,187                                           |
| 1890              | 135,218,990           | 31,613,730         | 81,591,847         | 248,424,567   | 51-98                                                             | 39,802,956                                           |
| 1891              | 143,368,817           | 32,407,937         | 85,698,475         | 261,745,229   | 54-16                                                             | 37,609,287                                           |
| 1892              | 154,709,077           | 33,692,706         | 90,708,482         | 279,110,265   | 57-16                                                             | 44,060,440                                           |
| 1893              | 167,475,872           | 33,543,884         | 94,602,966         | 295,622,722   | 59-95                                                             | 44,802,847                                           |
| 1894              | 177,511,846           | 33,911,885         | 96,737,705         | 308,161,436   | 61-99                                                             | 49,111,010                                           |
| 1895              | 188,326,057           | 34,341,172         | 96,590,352         | 319,257,581   | 63-52                                                             | 44,101,898                                           |
| 1896              | 195,303,042           | 34,837,448         | 97,660,009         | 327,800,499   | 64-60                                                             | 42,293,322                                           |
| 1897              | 208,655,459           | 35,293,134         | 100,063,684        | 344,012,277   | 67-16                                                             | 47,170,165                                           |
| 1898              | 226,209,636           | 36,606,195         | 105,708,154        | 368,523,985   | 71-21                                                             | 54,387,303                                           |
| 1899              | 252,201,516           | 38,025,948         | 113,943,209        | 404,170,673   | 77-21                                                             | 66,184,063                                           |
| 1900              | 267,151,086           | 39,485,344         | 124,433,416        | 431,069,846   | 81-32                                                             | 67,729,115                                           |
| 1901              | 284,684,621           | 40,216,136         | 138,868,227        | 463,769,034   | 86-35                                                             | 72,854,859                                           |
| 1902              | 308,202,596           | 41,556,245         | 159,053,464        | 508,812,305   | 92-61                                                             | 79,638,914                                           |
| 1903              | 335,638,940           | 42,127,260         | 170,676,800        | 548,443,000   | 97-05                                                             | 90,732,415                                           |
| 1904              | 364,640,166           | 42,608,738         | 180,631,886        | 587,880,790   | 100-89                                                            | 97,617,402                                           |
| 1905              | 397,949,902           | 43,809,211         | 188,578,127        | 630,334,240   | 105-02                                                            | 104,719,585                                          |
| 1906              | 420,864,847           | 45,655,951         | 189,740,102        | 656,260,900   | 106-46                                                            | 93,722,510                                           |
| 1907              | 450,573,724           | 46,462,314         | 188,487,447        | 685,523,485   | 106-93                                                            | 88,784,250                                           |
| 1908              | 480,266,931           | 46,161,957         | 193,087,126        | 719,516,014   | 108-61                                                            | 98,644,410                                           |
| 1909              | 515,415,437           | 46,985,192         | 217,956,351        | 780,356,980   | 114-76                                                            | 130,122,008                                          |
| 1910              | 565,667,110           | 47,816,775         | 242,629,174        | 856,113,059   | 122-51                                                            | 150,785,305                                          |
| 1911              | 626,770,154           | 50,919,675         | 272,530,942        | 950,220,771   | 131-85                                                            | 173,341,738                                          |
| 1912              | 706,656,117           | 54,537,725         | 309,114,827        | 1,070,308,669 | 144-85                                                            | 212,772,151                                          |
| 1913              | 750,637,902           | 58,176,795         | 359,775,330        | 1,168,590,027 | 153-12                                                            | 225,606,787                                          |
| 1914              | 794,520,423           | 60,710,658         | 385,869,397        | 1,242,160,478 | 157-65                                                            | 212,977,464                                          |
| 1915              | 829,972,809           | 58,087,018         | 423,556,850        | 1,311,616,677 | 164-34                                                            | 218,205,427                                          |
| 1916              | 895,528,435           | 59,151,931         | 467,499,266        | 1,422,179,632 | 177-75                                                            | 227,210,162                                          |
| 1917              | 996,699,282           | 58,617,506         | 529,725,775        | 1,585,042,563 | 196-66                                                            | 277,532,095                                          |
| 1918              | 1,105,503,447         | 60,296,113         | 619,261,713        | 1,785,061,273 | 219-08                                                            | 307,279,759                                          |
| 1919              | 1,362,681,562         | 66,908,064         | 758,297,691        | 2,187,837,317 | 263-25                                                            | 517,863,639                                          |
| 1920              | 1,664,348,605         | 76,883,090         | 915,793,798        | 2,657,025,493 | 310-55                                                            | 630,110,900                                          |
| 1921              | 1,860,026,952         | 84,940,938         | 989,875,958        | 2,934,843,848 | 333-96                                                            | 514,654,111                                          |
| 1922              | 2,013,722,848         | 93,791,180         | 1,063,874,968      | 3,171,388,996 | 355-58                                                            | 502,279,333                                          |
| 1923              | 2,187,434,147         | 98,023,020         | 1,148,051,506      | 3,433,508,673 | 381-03                                                            | 548,640,800                                          |
| 1924              | 2,413,853,480         | 103,519,236        | 1,246,623,756      | 3,763,996,472 | 411-64                                                            | 615,372,723                                          |
| 1925              | 2,672,989,676         | 108,565,248        | 1,377,464,924      | 4,159,019,848 | 447-44                                                            | 712,091,889                                          |
| 1926              | 2,979,946,768         | 111,375,336        | 1,518,874,230      | 4,610,190,334 | 487-65                                                            | 797,940,009                                          |
| 1927              | 3,277,050,348         | 113,883,716        | 1,653,474,770      | 5,040,408,834 | 523-44                                                            | 838,475,057                                          |
| 1928              | 3,671,325,188         | 115,340,577        | 1,820,979,858      | 5,607,645,623 | 570-16                                                            | 918,742,064                                          |
| 1929              | 4,051,612,499         | 116,545,637        | 1,989,104,071      | 6,157,262,207 | 613-94                                                            | 978,141,485                                          |
| 1930              | 4,319,370,209         | 117,410,860        | 2,055,502,125      | 6,492,283,194 | 636-00                                                            | 884,749,748                                          |
| 1931              | 4,409,707,938         | 119,262,511        | 2,093,297,344      | 6,622,287,793 | 638-17                                                            | 782,716,064                                          |
| 1932              | 4,311,747,692         | 115,831,319        | 2,044,029,535      | 6,471,608,546 | 615-99                                                            | 653,249,366                                          |
| 1933              | 4,160,351,570         | 113,807,916        | 1,973,466,488      | 6,247,625,974 | 584-93                                                            | 578,585,659                                          |
| 1934 <sup>3</sup> | 4,139,297,799         | 116,756,554        | 1,964,048,482      | 6,220,102,835 | 574-08                                                            | 596,062,050                                          |

<sup>1</sup>Figures do not include insurance in force and effectuated by Fraternal Societies operating under Dominion charters. The amount of insurance in force in such societies amounted to \$167,559,340 in 1934, according to preliminary figures. Corresponding figures for the years 1929-33 are given in Table 17, pp. 1025-1026.

<sup>2</sup>Subject to revision.

**10.—Life Insurance In Force and Effectd in Canada, by Companies, 1933.**

NOTE.—The statistics of this table do not include the business of Canadian companies outside of Canada.

| Company.                                          | Policies Effectd. |                    | Policies in Force. |                      | Net Premium Income. | Net Amount of Policies Become Claims. <sup>1</sup> |
|---------------------------------------------------|-------------------|--------------------|--------------------|----------------------|---------------------|----------------------------------------------------|
|                                                   | No.               | Net Amount.        | No.                | Net Amount.          |                     |                                                    |
| <b>Canadian Companies—</b>                        |                   | \$                 |                    | \$                   | \$                  | \$                                                 |
| Canada.....                                       | 6,049             | 17,810,901         | 125,546            | 395,282,783          | 11,685,674          | 4,994,887                                          |
| Capital.....                                      | 1,239             | 1,993,773          | 8,064              | 14,435,932           | 401,256             | 164,939                                            |
| Commercial.....                                   | 710               | 845,172            | 4,608              | 9,650,403            | 313,714             | 99,234                                             |
| Confederation.....                                | 7,677             | 18,111,380         | 102,910            | 215,812,792          | 7,204,021           | 2,271,003                                          |
| Continental.....                                  | 1,914             | 3,151,581          | 20,706             | 33,684,604           | 1,089,065           | 342,016                                            |
| Crown.....                                        | 4,910             | 10,389,460         | 48,599             | 101,357,457          | 3,016,722           | 970,263                                            |
| Dominion.....                                     | 4,657             | 14,350,512         | 56,020             | 129,295,024          | 4,300,909           | 1,032,979                                          |
| Dominion of Canada.....                           | 652               | 1,130,538          | 4,136              | 6,842,502            | 208,259             | 42,006                                             |
| T. Eaton.....                                     | 1,230             | 2,142,987          | 11,870             | 23,193,919           | 853,575             | 205,734                                            |
| Excelsior.....                                    | 3,521             | 8,001,044          | 43,010             | 83,239,033           | 2,624,754           | 740,976                                            |
| Great West.....                                   | 11,744            | 28,840,399         | 213,408            | 474,040,239          | 15,527,376          | 3,714,376                                          |
| Imperial.....                                     | 4,894             | 13,195,289         | 85,766             | 209,293,168          | 7,334,813           | 1,920,009                                          |
| London.....                                       | 127,033           | 92,090,602         | 511,888            | 476,758,727          | 13,919,139          | 2,877,641                                          |
| Manufacturers.....                                | 9,699             | 22,047,397         | 125,930            | 263,973,931          | 8,763,726           | 2,441,341                                          |
| Maritime.....                                     | 461               | 909,694            | 3,249              | 6,485,804            | 151,975             | 37,395                                             |
| Monarch.....                                      | 3,304             | 5,851,150          | 28,311             | 50,563,953           | 1,529,812           | 262,927                                            |
| Montreal.....                                     | 3,046             | 5,415,303          | 16,317             | 33,200,896           | 1,001,488           | 340,699                                            |
| Mutual of Canada.....                             | 14,538            | 36,534,484         | 202,041            | 481,445,918          | 17,693,254          | 4,615,214                                          |
| National of Canada.....                           | 2,652             | 5,082,391          | 25,491             | 50,360,341           | 1,527,869           | 431,746                                            |
| North American.....                               | 5,150             | 11,635,206         | 77,215             | 161,368,680          | 5,688,695           | 1,605,820                                          |
| Northern.....                                     | 1,931             | 3,706,267          | 27,991             | 43,474,861           | 1,374,073           | 424,474                                            |
| Royal Guardians.....                              | 1,083             | 484,021            | 6,532              | 3,522,035            | 116,040             | 64,430                                             |
| Saskatchewan.....                                 | 820               | 838,736            | 6,275              | 8,971,799            | 237,803             | 40,500                                             |
| Sauvegarde.....                                   | 1,928             | 2,699,608          | 17,557             | 24,977,319           | 732,216             | 173,934                                            |
| Sovereign.....                                    | 984               | 2,239,999          | 12,584             | 24,091,270           | 764,196             | 130,441                                            |
| Sun.....                                          | 14,947            | 42,845,558         | 268,049            | 827,832,328          | 25,440,011          | 6,796,463                                          |
| Western.....                                      | 882               | 1,381,685          | 4,396              | 7,195,852            | 193,307             | 34,467                                             |
| <b>Totals.....</b>                                | <b>237,655</b>    | <b>333,725,137</b> | <b>2,059,069</b>   | <b>4,160,351,570</b> | <b>133,693,742</b>  | <b>36,776,004</b>                                  |
| <b>British Companies—</b>                         |                   |                    |                    |                      |                     |                                                    |
| Commercial Union <sup>2</sup> .....               | —                 | —                  | 79                 | 360,594              | 7,638               | 5,000                                              |
| Edinburgh <sup>2</sup> .....                      | —                 | —                  | 2                  | 3,129                | 19                  | —                                                  |
| Gresham <sup>2</sup> .....                        | —                 | —                  | 968                | 2,035,595            | 64,297              | 77,867                                             |
| Life Association of Scotland <sup>2</sup> .....   | —                 | —                  | 15                 | 29,322               | 46                  | 6,077                                              |
| Liverpool and London and Globe <sup>2</sup> ..... | —                 | —                  | 3                  | 8,458                | 22                  | —                                                  |
| London and Scottish.....                          | 505               | 1,343,624          | 6,478              | 15,016,237           | 505,404             | 471,335                                            |
| Mutual Life and Citizens (Australia).....         | 20,251            | 5,431,425          | 107,650            | 30,293,404           | 1,110,704           | 248,425                                            |
| North British and Mercantile <sup>2</sup> .....   | —                 | —                  | 209                | 873,273              | 32,498              | 42,256                                             |
| Norwich Union <sup>2</sup> .....                  | —                 | —                  | 33                 | 30,696               | 347                 | 14,090                                             |
| Phoenix of London.....                            | 22                | 66,500             | 1,479              | 5,702,353            | 146,730             | 163,557                                            |
| Prudential of London.....                         | 1,647             | 3,618,827          | 3,131              | 8,177,242            | 275,776             | 4,000                                              |
| Royal.....                                        | 431               | 1,423,223          | 5,479              | 22,208,070           | 681,420             | 278,299                                            |
| Scottish Amicable <sup>2</sup> .....              | —                 | —                  | 3                  | 6,959                | 115                 | 206                                                |
| Standard.....                                     | 601               | 2,046,446          | 9,929              | 29,016,117           | 845,596             | 616,772                                            |
| Star <sup>2</sup> .....                           | —                 | —                  | 26                 | 46,467               | 623                 | 3,406                                              |
| <b>Totals.....</b>                                | <b>23,457</b>     | <b>13,930,045</b>  | <b>135,484</b>     | <b>113,807,916</b>   | <b>3,671,235</b>    | <b>1,931,290</b>                                   |
| <b>Foreign Companies—</b>                         |                   |                    |                    |                      |                     |                                                    |
| Ætna.....                                         | 725               | 3,946,160          | 13,898             | 79,759,443           | 1,824,770           | 1,021,677                                          |
| Connecticut Mutual <sup>2</sup> .....             | —                 | —                  | 1                  | 2,000                | 43                  | —                                                  |
| Equitable <sup>2</sup> .....                      | —                 | —                  | 7,419              | 20,025,912           | 585,917             | 594,404                                            |
| Guardian.....                                     | 2                 | 6,000              | 36                 | 135,573              | 5,106               | —                                                  |
| Metropolitan.....                                 | 296,182           | 128,906,308        | 2,612,536          | 1,008,078,516        | 37,294,540          | 7,581,191                                          |
| Mutual of New York.....                           | 29                | 99,500             | 25,007             | 66,184,906           | 2,236,913           | 725,436                                            |
| National of United States <sup>2</sup> .....      | —                 | —                  | 9                  | 3,517                | —                   | —                                                  |
| New York.....                                     | 2,768             | 6,020,600          | 75,178             | 169,636,570          | 5,597,146           | 2,312,347                                          |
| Northwestern Mutual <sup>2</sup> .....            | —                 | —                  | 12                 | 11,919               | 31                  | —                                                  |
| Occidental.....                                   | 141               | 465,900            | 3,206              | 7,555,909            | 187,524             | 102,000                                            |
| Pan American <sup>2</sup> .....                   | —                 | —                  | —                  | —                    | —                   | —                                                  |
| Phoenix Mutual <sup>2</sup> .....                 | —                 | —                  | 35                 | 16,081               | 121                 | 5,790                                              |
| Provident Savings <sup>2</sup> .....              | —                 | —                  | 176                | 243,517              | 5,172               | 12,000                                             |
| Prudential.....                                   | 196,095           | 64,801,984         | 1,390,881          | 494,944,766          | 18,716,431          | 3,252,389                                          |
| State.....                                        | 1                 | 4,125              | 177                | 1,148,999            | 28,214              | 80,403                                             |
| Travelers of Hartford.....                        | 1,698             | 6,416,400          | 24,930             | 118,864,909          | 2,895,711           | 969,997                                            |
| Union Labour.....                                 | 8                 | 12,500             | 43                 | 82,500               | 2,715               | —                                                  |
| Union Mutual.....                                 | 132               | 213,500            | 2,608              | 6,159,328            | 189,534             | 89,309                                             |
| United States.....                                | 13                | 37,500             | 202                | 612,123              | 19,359              | 23,002                                             |
| <b>Totals.....</b>                                | <b>497,794</b>    | <b>210,930,477</b> | <b>4,156,354</b>   | <b>1,973,466,488</b> | <b>69,589,247</b>   | <b>16,769,945</b>                                  |

<sup>1</sup>Including matured endowments.<sup>2</sup>Ceased transacting new business in Canada.<sup>3</sup>Registered but not active.

## 10.—Life Insurance In Force and Effectuated in Canada, by Companies, 1933—concluded.

| Company.                 | Policies Effectuated. |                    | Policies in Force. |                      | Net Premium Income. | Net Amount of Policies Become Claims. <sup>1</sup> |
|--------------------------|-----------------------|--------------------|--------------------|----------------------|---------------------|----------------------------------------------------|
|                          | No.                   | Net Amount.        | No.                | Net Amount.          |                     |                                                    |
| SUMMARY.                 |                       | \$                 |                    | \$                   | \$                  | \$                                                 |
| Canadian companies ..... | 237,655               | 353,725,137        | 2,059,069          | 4,160,351,570        | 133,693,742         | 36,776,004                                         |
| British companies.....   | 23,457                | 13,930,045         | 135,484            | 113,807,916          | 3,671,235           | 1,931,290                                          |
| Foreign companies.....   | 497,794               | 210,930,477        | 4,156,354          | 1,973,466,488        | 69,589,247          | 16,769,945                                         |
| <b>Grand Totals.....</b> | <b>758,906</b>        | <b>578,585,659</b> | <b>6,350,907</b>   | <b>6,247,625,974</b> | <b>206,954,224</b>  | <b>55,477,239</b>                                  |

<sup>1</sup>Including matured endowments.

## 11.—Progress of Life Insurance in Canada, calendar years, 1929-33.

| Item.                                       | 1929.         | 1930.         | 1931.         | 1932.         | 1933.         |
|---------------------------------------------|---------------|---------------|---------------|---------------|---------------|
| <b>Canadian Companies—</b>                  |               |               |               |               |               |
| Policies effectuated.....No.                | 329,989       | 308,490       | 273,945       | 247,256       | 237,655       |
| Policies in force at end of year.....“      | 2,098,282     | 2,173,363     | 2,191,340     | 2,131,824     | 2,059,069     |
| Policies become claims.....“                | 22,608        | 22,721        | 20,396        | 23,287        | 21,851        |
| Net amount of policies effectuated.....\$   | 645,201,646   | 594,704,790   | 491,340,864   | 399,498,023   | 353,725,137   |
| Net amount of policies in force.....\$      | 4,051,612,499 | 4,319,370,209 | 4,409,707,938 | 4,311,747,692 | 4,160,351,570 |
| Net amount of policies become claims.....\$ | 31,788,773    | 34,803,687    | 35,785,716    | 37,800,409    | 36,776,004    |
| Amount of premiums in year.....\$           | 137,319,487   | 142,059,595   | 145,990,909   | 138,805,014   | 133,693,742   |
| Claims paid <sup>2</sup> .....\$            | 33,221,451    | 36,017,299    | 36,994,531    | 39,148,951    | 38,514,102    |
| Unsettled claims—                           |               |               |               |               |               |
| Not resisted.....\$                         | 2,871,841     | 3,297,337     | 4,164,333     | 4,051,937     | 4,082,544     |
| Resisted.....\$                             | 54,017        | 54,211        | 92,641        | 142,650       | 126,977       |
| <b>British Companies—</b>                   |               |               |               |               |               |
| Policies effectuated.....No.                | 16,709        | 14,536        | 15,445        | 15,690        | 23,457        |
| Policies in force at end of year.....“      | 137,803       | 138,007       | 138,209       | 132,835       | 135,484       |
| Policies become claims.....“                | 1,467         | 1,377         | 1,329         | 1,561         | 1,814         |
| Net amount of policies effectuated.....\$   | 11,138,775    | 10,769,103    | 13,735,682    | 13,054,139    | 13,930,045    |
| Net amount of policies in force.....\$      | 116,545,637   | 117,410,860   | 119,262,511   | 115,831,319   | 113,807,916   |
| Net amount of policies become claims.....\$ | 2,217,823     | 1,963,563     | 1,935,905     | 2,134,503     | 1,931,290     |
| Amount of premiums in year.....\$           | 4,000,064     | 4,924,980     | 3,952,048     | 3,821,016     | 3,671,235     |
| Claims paid <sup>2</sup> .....\$            | 2,030,705     | 2,074,962     | 1,854,214     | 2,041,201     | 1,989,965     |
| Unsettled claims—                           |               |               |               |               |               |
| Not resisted.....\$                         | 381,383       | 224,187       | 316,545       | 342,714       | 257,546       |
| Resisted.....\$                             | —             | —             | —             | —             | —             |
| <b>Foreign Companies—</b>                   |               |               |               |               |               |
| Policies effectuated.....No.                | 615,481       | 548,578       | 589,587       | 546,053       | 497,794       |
| Policies in force at end of year.....“      | 4,364,094     | 4,422,273     | 4,442,864     | 4,322,793     | 4,156,354     |
| Policies become claims.....“                | 47,553        | 44,029        | 41,109        | 40,650        | 39,292        |
| Net amount of policies effectuated.....\$   | 321,801,064   | 279,275,855   | 277,639,518   | 240,697,204   | 210,930,477   |
| Net amount of policies in force.....\$      | 1,989,104,071 | 2,055,502,125 | 2,093,297,344 | 2,044,029,535 | 1,973,466,488 |
| Net amount of policies become claims.....\$ | 15,272,011    | 15,859,124    | 16,088,968    | 17,817,735    | 16,769,945    |
| Amount of premiums in year.....\$           | 69,408,928    | 73,539,152    | 75,157,614    | 73,506,927    | 69,589,247    |
| Claims paid <sup>2</sup> .....\$            | 16,042,494    | 16,777,780    | 17,730,613    | 18,903,444    | 18,250,412    |
| Unsettled claims—                           |               |               |               |               |               |
| Not resisted.....\$                         | 971,364       | 850,456       | 1,166,436     | 1,173,282     | 1,167,959     |
| Resisted.....\$                             | 53,491        | 114,473       | 115,242       | 136,706       | 195,266       |
| <b>All Companies—</b>                       |               |               |               |               |               |
| Policies effectuated.....No.                | 962,179       | 871,604       | 878,977       | 808,999       | 758,906       |
| Policies in force at end of year.....“      | 6,600,089     | 6,733,643     | 6,772,413     | 6,587,452     | 6,350,907     |
| Policies become claims.....“                | 71,628        | 67,677        | 62,834        | 65,478        | 62,957        |
| Net amount of policies effectuated.....\$   | 978,141,485   | 884,749,748   | 782,716,064   | 653,249,366   | 578,585,659   |
| Net amount of policies in force.....\$      | 6,157,262,207 | 6,492,283,194 | 6,622,267,793 | 6,471,608,546 | 6,247,625,974 |
| Net amount of policies become claims.....\$ | 49,278,607    | 52,626,374    | 54,410,589    | 57,752,647    | 55,477,239    |
| Amount of premiums in year.....\$           | 210,728,479   | 220,523,727   | 225,100,571   | 216,132,957   | 206,954,224   |
| Claims paid <sup>2</sup> .....\$            | 51,294,650    | 54,870,041    | 56,579,358    | 60,093,596    | 58,754,479    |
| Unsettled claims—                           |               |               |               |               |               |
| Not resisted.....\$                         | 4,224,588     | 4,371,980     | 5,647,314     | 5,567,933     | 5,508,049     |
| Resisted.....\$                             | 107,508       | 168,684       | 207,883       | 279,356       | 322,243       |

<sup>1</sup>Figures of Canadian business only.<sup>2</sup>Death claims, matured endowments and disability claims.



### 12.—Ordinary and Industrial Life Insurance Policies in Force and Issued in Canada, 1933.

| Type of Policy and Nationality of Company. | Newly Issued.  |                    |                             | In Force.        |                      |                             |
|--------------------------------------------|----------------|--------------------|-----------------------------|------------------|----------------------|-----------------------------|
|                                            | Number.        | Total Amount.      | Average Amount of a Policy. | Number.          | Total Amount.        | Average Amount of a Policy. |
|                                            |                | \$                 | \$                          |                  | \$                   | \$                          |
| <b>ORDINARY POLICIES—</b>                  |                |                    |                             |                  |                      |                             |
| Canadian companies.....                    | 139,756        | 344,573,537        | 2,466                       | 1,660,846        | 3,815,248,264        | 2,297                       |
| British companies.....                     | 4,240          | 10,368,209         | 2,445                       | 38,037           | 100,915,324          | 2,653                       |
| Foreign companies.....                     | 108,215        | 151,102,846        | 1,396                       | 724,471          | 1,219,504,460        | 1,683                       |
| <b>All Companies.....</b>                  | <b>252,211</b> | <b>506,044,592</b> | <b>2,006</b>                | <b>2,423,354</b> | <b>5,135,668,048</b> | <b>2,119</b>                |
| <b>INDUSTRIAL POLICIES—</b>                |                |                    |                             |                  |                      |                             |
| Canadian companies.....                    | 113,103        | 49,297,095         | 436                         | 396,460          | 151,715,120          | 383                         |
| British companies.....                     | 19,596         | 4,668,557          | 238                         | 97,445           | 16,032,368           | 165                         |
| Foreign companies.....                     | 403,187        | 80,619,533         | 200                         | 3,431,510        | 624,088,453          | 182                         |
| <b>All Companies.....</b>                  | <b>535,886</b> | <b>134,585,185</b> | <b>251</b>                  | <b>3,925,415</b> | <b>791,835,941</b>   | <b>202</b>                  |

### 13.—Insurance Death-Rates in Canada, 1930-33.

| Type of Insurer.               | 1930.                               |                                         |                       | 1931.                               |                                         |                       |
|--------------------------------|-------------------------------------|-----------------------------------------|-----------------------|-------------------------------------|-----------------------------------------|-----------------------|
|                                | Number of Policies Exposed to Risk. | Number of Policies Terminated by Death. | Death-rate per 1,000. | Number of Policies Exposed to Risk. | Number of Policies Terminated by Death. | Death-rate per 1,000. |
|                                |                                     |                                         |                       |                                     |                                         |                       |
| All companies, ordinary.....   | 2,408,286                           | 13,777                                  | 5.7                   | 2,510,889                           | 14,365                                  | 5.7                   |
| All companies, industrial....  | 4,279,895                           | 31,365                                  | 7.3                   | 4,261,714                           | 29,275                                  | 6.9                   |
| Fraternal benefit societies... | 223,816                             | 3,158                                   | 14.1                  | 219,418                             | 3,134                                   | 14.3                  |
| <b>Totals.....</b>             | <b>6,911,997</b>                    | <b>48,300</b>                           | <b>7.0</b>            | <b>6,992,021</b>                    | <b>46,774</b>                           | <b>6.7</b>            |
|                                | 1932.                               |                                         |                       | 1933.                               |                                         |                       |
|                                | Number of Policies Exposed to Risk. | Number of Policies Terminated by Death. | Death-rate per 1,000. | Number of Policies Exposed to Risk. | Number of Policies Terminated by Death. | Death-rate per 1,000. |
|                                |                                     |                                         |                       |                                     |                                         |                       |
| All companies, ordinary.....   | 2,513,684                           | 14,769                                  | 5.9                   | 2,462,673                           | 14,301                                  | 5.8                   |
| All companies, industrial....  | 4,186,083                           | 29,332                                  | 7.0                   | 4,024,931                           | 26,855                                  | 6.7                   |
| Fraternal benefit societies... | 213,403                             | 3,137                                   | 14.7                  | 207,843                             | 3,068                                   | 14.8                  |
| <b>Totals.....</b>             | <b>6,913,170</b>                    | <b>47,238</b>                           | <b>6.8</b>            | <b>6,695,447</b>                    | <b>44,224</b>                           | <b>6.6</b>            |

# 14.—Assets of Canadian Life Companies and Assets in Canada of Life Companies other than Canadian Companies, 1929-33.

NOTE.—Certain British companies transacting fire insurance in Canada transact also life insurance in Canada, and inasmuch as a separation of assets has not been made between these two classes, their assets in Canada are not included here, but are included in the assets of British companies shown in Table 3 on pp. 1012-1013.

| Item.                                          | 1929.                | 1930.                | 1931.                | 1932.                | 1933.                |
|------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                                | \$                   | \$                   | \$                   | \$                   | \$                   |
| <b>Canadian Companies—</b>                     |                      |                      |                      |                      |                      |
| Real estate.....                               | 34,939,006           | 47,165,903           | 53,819,137           | 58,337,559           | 63,073,581           |
| Real estate held under agreements of sale..... | —                    | 14,269,209           | 11,698,617           | 13,037,053           | 13,932,171           |
| Loans on real estate.....                      | 327,211,037          | 338,122,114          | 345,431,316          | 335,551,887          | 323,148,767          |
| Loans on collaterals.....                      | 5,148,478            | 820,811              | 295,013              | 133,165              | 138,574              |
| Policy loans.....                              | 195,566,166          | 229,108,632          | 267,576,694          | 295,133,868          | 294,299,076          |
| Stocks, bonds and debentures.....              | 733,077,513          | 785,905,290          | 860,467,536          | 853,612,304          | 885,174,606          |
| Interest and rent due and accrued.....         | 21,921,633           | 25,818,997           | 29,489,244           | 31,683,251           | 31,780,768           |
| Cash on hand and in banks.....                 | 6,325,633            | 18,764,106           | 13,273,995           | 17,139,284           | 31,424,004           |
| Outstanding and deferred premiums...           | 38,809,327           | 46,289,991           | 49,426,002           | 47,408,318           | 44,595,013           |
| Other assets.....                              | 3,299,825            | 3,598,119            | 2,995,016            | 3,067,348            | 3,475,114            |
| <b>Totals, Assets<sup>1</sup>.....</b>         | <b>1,366,298,618</b> | <b>1,509,863,172</b> | <b>1,634,472,570</b> | <b>1,655,104,037</b> | <b>1,691,041,674</b> |
| <b>British Companies—</b>                      |                      |                      |                      |                      |                      |
| Real estate.....                               | 769,670              | 724,117              | 738,249              | 766,288              | 765,390              |
| Real estate held under agreements of sale..... | —                    | 58,704               | 78,931               | 68,268               | 72,328               |
| Loans on real estate.....                      | 12,986,877           | 12,501,381           | 12,283,851           | 12,120,340           | 11,699,041           |
| Loans on collaterals.....                      | 76,613               | 2,741                | 12,331               | 10,773               | 13,850               |
| Policy loans.....                              | 3,985,632            | 4,136,916            | 4,698,574            | 4,846,743            | 4,661,193            |
| Stocks, bonds and debentures.....              | 32,121,391           | 36,912,816           | 38,579,807           | 40,807,801           | 42,767,734           |
| Interest and rent due and accrued.....         | 502,247              | 583,919              | 629,823              | 607,922              | 620,861              |
| Cash on hand and in banks.....                 | 815,090              | 860,221              | 671,698              | 812,017              | 845,193              |
| Outstanding and deferred premiums...           | 536,879              | 534,847              | 562,484              | 540,977              | 505,370              |
| Other assets.....                              | 58,543               | 141,706              | 183,390              | 14,468               | 20,673               |
| <b>Totals, Assets in Canada...</b>             | <b>51,852,942</b>    | <b>56,457,368</b>    | <b>58,439,138</b>    | <b>60,595,597</b>    | <b>61,971,633</b>    |
| <b>Foreign Companies—</b>                      |                      |                      |                      |                      |                      |
| Real estate.....                               | 2,378,116            | 2,448,397            | 2,399,011            | 2,562,060            | 2,581,001            |
| Real estate held under agreements of sale..... | —                    | 11,701               | —                    | —                    | —                    |
| Loans on real estate.....                      | 23,416,508           | 30,488,337           | 31,191,807           | 30,339,447           | 29,550,019           |
| Loans on collaterals.....                      | —                    | —                    | —                    | —                    | —                    |
| Policy loans.....                              | 37,035,100           | 43,925,671           | 50,847,585           | 57,986,328           | 60,478,765           |
| Stocks, bonds and debentures.....              | 267,489,395          | 311,786,613          | 331,352,030          | 340,762,120          | 340,788,017          |
| Interest and rent due and accrued.....         | 4,549,393            | 5,330,201            | 5,742,800            | 6,000,489            | 6,224,729            |
| Cash on hand and in banks.....                 | 4,660,803            | 5,757,270            | 7,179,661            | 6,018,138            | 6,641,751            |
| Outstanding and deferred premiums...           | 7,168,453            | 8,380,578            | 8,906,278            | 8,812,455            | 8,538,695            |
| Other assets.....                              | 767,079              | 10,344               | 6,043                | 7,200                | 6,527                |
| <b>Totals, Assets in Canada...</b>             | <b>348,464,847</b>   | <b>407,539,112</b>   | <b>437,625,215</b>   | <b>452,488,237</b>   | <b>454,809,504</b>   |

<sup>1</sup>The figures in the table give the book values; the authorized values of these assets were \$1,414,783,529 in 1929, \$1,511,411,008 in 1930, \$1,611,093,987 in 1931, \$1,632,528,293 in 1932 and \$1,673,787,245 in 1933.

**15.—Liabilities of Canadian Life Companies and Liabilities in Canada of Life Companies other than Canadian Companies, 1929-33.**

| Item.                                                              | 1929.                | 1930.                | 1931.                | 1932.                | 1933.                |
|--------------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                                                    | \$                   | \$                   | \$                   | \$                   | \$                   |
| <b>Canadian Companies—</b>                                         |                      |                      |                      |                      |                      |
| Unsettled claims.....                                              | 9,957,894            | 10,994,745           | 12,227,216           | 11,364,699           | 12,100,194           |
| Net re-insurance reserve.....                                      | 1,140,615,583        | 1,259,253,948        | 1,363,738,458        | 1,382,510,308        | 1,425,125,109        |
| Sundry liabilities.....                                            | 164,778,155          | 169,337,563          | 182,738,585          | 195,435,568          | 193,018,372          |
| <b>Totals, Liabilities, not including Capital.....</b>             | <b>1,315,351,632</b> | <b>1,439,586,256</b> | <b>1,558,704,259</b> | <b>1,589,310,575</b> | <b>1,630,243,675</b> |
| Surplus of assets, excluding capital.....                          | 99,431,897           | 71,824,812           | 52,389,728           | 43,217,718           | 43,543,570           |
| Capital stock paid up.....                                         | 10,736,558           | 11,140,654           | 10,946,497           | 10,917,714           | 10,849,899           |
| <b>British Companies<sup>1</sup>—</b>                              |                      |                      |                      |                      |                      |
| Unsettled claims.....                                              | 381,384              | 224,188              | 316,545              | 342,715              | 257,546              |
| Net re-insurance reserve.....                                      | 31,496,050           | 32,861,364           | 33,618,926           | 33,477,760           | 33,164,530           |
| Sundry liabilities.....                                            | 339,041              | 444,118              | 1,562,586            | 1,086,249            | 527,033              |
| <b>Totals, Liabilities, not including Capital<sup>1</sup>.....</b> | <b>32,216,475</b>    | <b>33,529,670</b>    | <b>35,498,057</b>    | <b>34,906,724</b>    | <b>33,949,109</b>    |
| Surplus of assets.....                                             | 19,688,473           | 22,979,884           | 23,001,461           | 25,695,188           | 28,028,839           |
| <b>Foreign Companies<sup>1</sup>—</b>                              |                      |                      |                      |                      |                      |
| Unsettled claims.....                                              | 1,024,856            | 964,929              | 1,281,677            | 1,309,988            | 1,363,223            |
| Net re-insurance reserve.....                                      | 303,264,419          | 331,104,374          | 352,485,637          | 363,342,761          | 368,556,297          |
| Sundry liabilities.....                                            | 17,358,608           | 18,949,502           | 20,047,887           | 19,748,735           | 19,330,173           |
| <b>Totals, Liabilities, not including Capital<sup>1</sup>.....</b> | <b>321,647,883</b>   | <b>351,018,805</b>   | <b>373,815,201</b>   | <b>384,401,484</b>   | <b>389,249,693</b>   |
| Surplus of assets.....                                             | 26,816,964           | 56,520,307           | 63,810,014           | 68,086,753           | 65,559,811           |

<sup>1</sup>Liabilities in Canada.
**16.—Totals of Cash Income and Expenditure of Canadian Life Companies, and Cash Income and Expenditure in Canada of British and Foreign Life Companies, by Principal Items, 1929-33.**

| Item.                                       | 1929.              | 1930.              | 1931.              | 1932.              | 1933.              |
|---------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                             | \$                 | \$                 | \$                 | \$                 | \$                 |
| <b>INCOME.</b>                              |                    |                    |                    |                    |                    |
| <b>Canadian Companies<sup>1</sup>—</b>      |                    |                    |                    |                    |                    |
| Net premium income.....                     | 258,392,082        | 273,381,096        | 289,968,212        | 268,073,016        | 246,770,876        |
| Consideration for annuities.....            | 21,904,175         | 24,816,263         | 30,943,652         | 18,818,166         | 27,895,586         |
| Interest, dividends and rents.....          | 74,076,246         | 78,424,368         | 77,191,229         | 73,702,893         | 72,963,331         |
| Sundry items.....                           | 32,496,340         | 28,746,973         | 31,252,614         | 31,273,618         | 31,830,679         |
| <b>Totals, Cash Income<sup>1</sup>.....</b> | <b>386,868,843</b> | <b>405,368,700</b> | <b>429,355,707</b> | <b>391,867,693</b> | <b>379,460,472</b> |
| <b>British Companies<sup>2</sup>—</b>       |                    |                    |                    |                    |                    |
| Net premium income.....                     | 4,000,064          | 4,927,869          | 3,954,937          | 3,823,905          | 3,671,235          |
| Consideration for annuities.....            | —                  | 7,857              | 93,058             | 31,891             | 130,674            |
| Interest, dividends and rents.....          | 2,260,650          | 2,319,073          | 2,432,176          | 2,488,544          | 2,378,363          |
| Sundry items.....                           | 57,434             | 68,420             | 90,128             | 125,961            | 145,660            |
| <b>Totals, Cash Income<sup>2</sup>.....</b> | <b>6,318,148</b>   | <b>7,323,219</b>   | <b>6,570,299</b>   | <b>6,470,301</b>   | <b>6,325,932</b>   |
| <b>Foreign Companies<sup>2</sup>—</b>       |                    |                    |                    |                    |                    |
| Net premium income.....                     | 69,408,928         | 73,539,152         | 75,157,614         | 73,506,927         | 69,589,247         |
| Consideration for annuities.....            | 401,236            | 403,889            | 488,235            | 739,367            | 969,074            |
| Interest, dividends and rents.....          | 17,396,145         | 20,290,992         | 23,084,373         | 25,043,772         | 25,074,984         |
| Sundry items.....                           | 2,083,815          | 2,249,119          | 2,338,618          | 2,075,486          | 2,404,369          |
| <b>Totals, Cash Income<sup>2</sup>.....</b> | <b>89,290,124</b>  | <b>96,483,152</b>  | <b>101,018,840</b> | <b>101,365,552</b> | <b>98,037,674</b>  |

<sup>1</sup>Includes income on business outside of Canada.<sup>2</sup>Income in Canada.

**16.—Totals of Cash Income and Expenditure of Canadian Life Companies, and Cash Income and Expenditure in Canada of British and Foreign Life Companies, by Principal Items, 1929-33—concluded.**

| Item.                                       | 1929.              | 1930.              | 1931.              | 1932.              | 1933.              |
|---------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                             | \$                 | \$                 | \$                 | \$                 | \$                 |
| <b>EXPENDITURE.</b>                         |                    |                    |                    |                    |                    |
| <b>Canadian Companies<sup>1</sup>—</b>      |                    |                    |                    |                    |                    |
| Payments to policyholders.....              | 152,626,413        | 177,179,476        | 203,011,738        | 240,290,876        | 232,651,353        |
| General expenses.....                       | 71,784,899         | 77,271,147         | 72,011,435         | 62,764,123         | 55,818,105         |
| Dividends to stockholders.....              | 2,515,406          | 3,022,993          | 2,148,144          | 1,284,355          | 978,401            |
| Other disbursements.....                    | 8,813,307          | 12,775,135         | 19,202,852         | 27,673,482         | 22,083,535         |
| <b>Totals, Expenditure<sup>1</sup>.....</b> | <b>235,740,025</b> | <b>270,248,751</b> | <b>296,374,169</b> | <b>332,012,736</b> | <b>311,531,394</b> |
| Excess of income over expenditure.....      | 151,128,818        | 135,119,949        | 132,981,538        | 59,854,957         | 67,929,078         |
| <b>British Companies<sup>2</sup>—</b>       |                    |                    |                    |                    |                    |
| Payments to policyholders.....              | 3,393,542          | 4,402,299          | 3,511,983          | 3,982,297          | 4,115,646          |
| General expenses.....                       | 971,130            | 984,147            | 1,085,483          | 1,076,476          | 1,057,672          |
| Other disbursements.....                    | 50,990             | 38,679             | 57,100             | 79,529             | 178,513            |
| <b>Totals, Expenditure<sup>2</sup>.....</b> | <b>4,415,662</b>   | <b>5,425,125</b>   | <b>4,654,566</b>   | <b>5,138,302</b>   | <b>5,351,831</b>   |
| Excess of income over expenditure.....      | 1,902,486          | 1,898,094          | 1,915,733          | 1,331,999          | 974,101            |
| <b>Foreign Companies<sup>2</sup>—</b>       |                    |                    |                    |                    |                    |
| Payments to policyholders.....              | 34,304,593         | 40,277,675         | 48,233,349         | 58,311,755         | 60,260,889         |
| General expenses.....                       | 15,597,059         | 15,474,742         | 14,970,837         | 14,310,784         | 13,511,680         |
| Other disbursements.....                    | 1,806,954          | 2,092,437          | 2,165,686          | 1,995,514          | 2,018,185          |
| <b>Totals, Expenditure<sup>2</sup>.....</b> | <b>51,708,606</b>  | <b>57,844,854</b>  | <b>65,369,872</b>  | <b>74,618,053</b>  | <b>75,790,754</b>  |
| Excess of income over expenditure.....      | 37,581,518         | 38,638,298         | 35,648,968         | 26,747,499         | 22,246,920         |

<sup>1</sup>Includes expenditure on business outside of Canada. <sup>2</sup>Expenditure in Canada.

**Life Insurance Effected through Fraternal Benefit Societies.**—In addition to life insurance, some fraternal benefit societies grant other insurance benefits to members, notably sickness benefits, but these are relatively unimportant. Table 17 gives statistics of life insurance effected with fraternal benefit societies by Canadian members, together with statistics of assets, liabilities, income and expenditure relating to the whole business of Canadian societies and to the business in Canada of foreign societies. The rates charged by these societies are computed to be sufficient to provide the benefits granted, having regard for actuarial principles. Each benefit fund of every society must be valued annually by a qualified actuary (Fellow, by examination, of the Institute of Actuaries, London; of the Faculty of Actuaries in Scotland; of the Actuarial Society of America; or of the American Institute of Actuaries), and unless the actuary certifies to the solvency of each fund a readjustment of rates or benefits must be made. The statistics in the first part of this table relate to the Canadian societies reporting to the Insurance Department of the Dominion Government. These numbered 9 in 1933, *viz.*, Alliance Nationale, Ancient Order of Foresters, Artisans Canadiens-Français, Canadian Woodmen of the World, Catholic Mutual Benefit Association, Commercial Travellers' Association of Canada, Independent Order of Foresters, Grand Orange Lodge of British America and the Ukrainian Mutual Benefit Association of St. Nicholas of Canada.

Under an amendment to the Insurance Act, effective Jan. 1, 1920, all foreign fraternal benefit societies were requested to obtain Dominion authority precedent to transacting business in Canada, but any such societies which at that date were transacting business under provincial licences, while forbidden to accept new members, were permitted to continue all necessary transactions in respect of the insurance of their then members. Most of these societies have since obtained Dominion



authority to transact business, also some foreign societies which had not previously been licensed by the provinces. Of both classes of societies, 25 transacted business in Canada in 1933, *viz.*, Aid Association for Lutherans, Association Canado-Américaine, Catholic Order of Foresters, Commercial Travelers' Mutual Accident Association of America (accident business only), Expressmen's Mutual Benefit Association, First Catholic Slovak Union, First Catholic Slovak Ladies' Union, Jewish National Workers' Alliance, Knights of Columbus, Ladies' Catholic Benevolent Association, Lutheran Brotherhood, Lutheran Mutual Aid Society, Maccabees, Modern Woodmen of America, National Fraternal Society of the Deaf, National Slovak Society of U.S.A., Royal Arcanum, Royal Clan (Order of Scottish Clans), Slovene National Benefit Society, Sons of Norway, United Commercial Travelers of America (accident business only), Women's Benefit Association, Women's Catholic Order of Foresters, Workmen's Circle and Yeomen Mutual Life Insurance Company which is continuing the business issued by the Brotherhood of American Yeomen.

### 17.—Statistics of Fraternal Benefit Societies' Insurance, 1929-33.

| Item.                                    | 1929.             | 1930.             | 1931.             | 1932.             | 1933.             |
|------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>CANADIAN SOCIETIES.</b>               |                   |                   |                   |                   |                   |
| (Life Insurance in Canada.)              |                   |                   |                   |                   |                   |
| Numbers of certificates effected.....    | 20,079            | 14,598            | 12,793            | 9,661             | 9,836             |
| Numbers of certificates become claims... | 3,250             | 3,320             | 3,150             | 3,272             | 3,202             |
| Amounts paid by members.....             | \$ 2,981,508      | \$ 2,907,347      | \$ 2,938,267      | \$ 2,707,106      | \$ 2,460,916      |
| Amounts of certificates effected.....    | 15,095,645        | 11,255,675        | 9,599,293         | 7,447,664         | 7,895,886         |
| Net amounts in force.....                | 136,107,164       | 129,852,173       | 127,947,418       | 122,608,742       | 118,005,740       |
| Amounts of certificates become claims... | 2,776,499         | 2,847,823         | 2,706,332         | 2,978,692         | 2,806,596         |
| Benefits paid.....                       | 3,213,574         | 3,376,260         | 3,278,621         | 3,474,082         | 3,576,423         |
| Unsettled Claims—                        |                   |                   |                   |                   |                   |
| Not resisted.....                        | 227,555           | 196,006           | 221,466           | 202,585           | 189,731           |
| Resisted.....                            | —                 | —                 | 4,000             | 3,500             | 1,750             |
| Amounts Terminated by—                   |                   |                   |                   |                   |                   |
| Death.....                               | 2,227,415         | 2,173,822         | 2,112,390         | 2,205,094         | 2,059,143         |
| Surrender, expiry, lapse, etc.....       | 17,172,287        | 16,216,935        | 15,207,149        | 14,288,153        | 13,851,151        |
| Totals, Terminated.....                  | 19,399,702        | 18,390,757        | 17,319,539        | 16,493,247        | 15,910,294        |
| <b>Assets (whole business)—</b>          |                   |                   |                   |                   |                   |
| Real estate.....                         | 2,141,627         | 2,175,663         | 4,854,070         | 5,494,042         | 7,033,220         |
| Loans on real estate.....                | 17,205,743        | 17,897,910        | 22,317,457        | 22,067,172        | 21,139,642        |
| Policy loans.....                        | 9,959,596         | 9,892,340         | 9,894,384         | 10,381,483        | 10,382,167        |
| Stocks, bonds and debentures.....        | 35,363,109        | 36,495,987        | 40,273,777        | 40,649,374        | 39,873,098        |
| Cash on hand and in banks.....           | 857,180           | 728,528           | 733,819           | 964,143           | 768,465           |
| Interest and rent due and accrued.....   | 849,206           | 885,455           | 995,524           | 1,047,379         | 1,160,153         |
| Dues from members.....                   | 275,843           | 284,242           | 383,124           | 347,324           | 224,523           |
| Other assets.....                        | 2,712,074         | 2,609,696         | 2,716,965         | 2,562,840         | 1,755,639         |
| <b>Totals, Assets.....</b>               | <b>69,364,358</b> | <b>70,969,811</b> | <b>82,169,120</b> | <b>83,513,757</b> | <b>82,186,907</b> |
| <b>Liabilities (whole business)—</b>     |                   |                   |                   |                   |                   |
| Claims, unsettled.....                   | 298,934           | 248,754           | 287,548           | 467,986           | 287,377           |
| Reserves.....                            | 61,578,374        | 62,062,212        | 71,063,568        | 69,184,229        | 67,413,206        |
| Other liabilities.....                   | 2,023,571         | 2,150,987         | 3,123,118         | 4,764,128         | 3,672,270         |
| <b>Totals, Liabilities.....</b>          | <b>63,900,879</b> | <b>64,461,953</b> | <b>74,474,234</b> | <b>74,416,343</b> | <b>71,372,853</b> |
| <b>Income (whole business)—</b>          |                   |                   |                   |                   |                   |
| Assessments.....                         | 5,795,297         | 5,585,562         | 5,543,026         | 5,730,869         | 5,183,021         |
| Fees and dues.....                       | 536,441           | 516,238           | 496,290           | 471,719           | 462,595           |
| Interest and rents.....                  | 3,455,537         | 3,551,694         | 3,588,780         | 3,822,615         | 3,556,741         |
| Other receipts.....                      | 79,557            | 70,334            | 119,290           | 56,217            | 98,626            |
| <b>Totals, Income.....</b>               | <b>9,866,832</b>  | <b>9,723,828</b>  | <b>9,747,386</b>  | <b>10,081,420</b> | <b>9,300,983</b>  |
| <b>Expenditure (whole business)—</b>     |                   |                   |                   |                   |                   |
| Paid to members.....                     | 5,987,451         | 6,058,918         | 5,961,192         | 7,379,724         | 7,460,236         |
| General expenses.....                    | 1,518,668         | 1,428,655         | 1,722,926         | 1,658,318         | 1,606,328         |
| Other expenditure.....                   | 180,896           | 148,894           | 96,176            | 264,442           | 124,454           |
| <b>Totals, Expenditure.....</b>          | <b>7,687,015</b>  | <b>7,636,467</b>  | <b>7,780,294</b>  | <b>9,302,484</b>  | <b>9,191,018</b>  |
| Excesses of income over expenditure..... | 2,179,817         | 2,087,361         | 1,967,092         | 778,936           | 109,965           |

<sup>1</sup>The figures given are the book values; the authorized values of these assets were: \$69,410,022 in 1929, \$71,510,045 in 1930, \$82,195,624 in 1931, \$82,884,579 in 1932 and \$80,585,739 in 1933.

## 17.—Statistics of Fraternal Benefit Societies' Insurance, 1929-33—concluded.

| Item.                                                    | 1929.      | 1930.      | 1931.      | 1932.      | 1933.      |
|----------------------------------------------------------|------------|------------|------------|------------|------------|
| <b>FOREIGN SOCIETIES.</b><br>(Life Insurance in Canada.) |            |            |            |            |            |
| Numbers of certificates effected.....                    | 4,965      | 4,315      | 5,766      | 4,198      | 3,199      |
| Numbers of certificates become claims...                 | 786        | 868        | 886        | 760        | 725        |
|                                                          | \$         | \$         | \$         | \$         | \$         |
| Amounts paid by members.....                             | 1,061,584  | 1,065,271  | 1,105,412  | 1,010,579  | 936,918    |
| Amounts of certificates effected.....                    | 5,396,175  | 4,709,995  | 5,883,799  | 4,308,350  | 3,569,550  |
| Net amounts in force.....                                | 51,921,366 | 55,436,601 | 55,698,821 | 53,299,968 | 52,707,770 |
| Amounts of certificates become claims...                 | 808,840    | 920,161    | 871,560    | 769,851    | 771,704    |
| Benefits paid.....                                       | 812,695    | 899,186    | 867,624    | 918,553    | 901,237    |
| Unsettled Claims—                                        |            |            |            |            |            |
| Not resisted.....                                        | 91,688     | 79,680     | 80,656     | 64,253     | 95,742     |
| Resisted.....                                            | —          | —          | 917        | —          | —          |
| Amounts Terminated by—                                   |            |            |            |            |            |
| Death.....                                               | 733,671    | 746,679    | 733,006    | 702,685    | 712,768    |
| Surrender, expiry, lapse, etc.....                       | 5,095,397  | 5,070,780  | 5,727,668  | 7,261,921  | 5,660,344  |
| Totals, Terminated.....                                  | 5,829,068  | 5,817,459  | 6,460,674  | 7,964,606  | 6,373,112  |
| <b>Assets (Canadian business)—</b>                       |            |            |            |            |            |
| Real estate.....                                         | —          | —          | —          | —          | —          |
| Loans on real estate.....                                | —          | 4,500      | 6,275      | 6,275      | 6,275      |
| Policy loans.....                                        | 45,505     | 97,606     | 178,365    | 279,866    | 426,319    |
| Stocks, bonds and debentures.....                        | 2,225,355  | 2,533,842  | 2,699,294  | 2,943,642  | 3,137,522  |
| Cash on hand and in banks.....                           | 355,104    | 162,313    | 346,654    | 309,433    | 291,330    |
| Interest and rent due and accrued.....                   | 30,323     | 31,683     | 34,624     | 37,019     | 37,569     |
| Dues from members.....                                   | 72,204     | 77,524     | 113,365    | 115,382    | 122,136    |
| Other assets.....                                        | 468        | —          | 503        | —2,572     | 2          |
| Totals, Assets.....                                      | 2,723,959  | 2,907,468  | 3,379,080  | 3,689,045  | 4,021,153  |
| <b>Liabilities (Canadian business)—</b>                  |            |            |            |            |            |
| Claims unsettled.....                                    | 97,704     | 90,889     | 109,398    | 91,250     | 118,079    |
| Reserves.....                                            | 7,376,121  | 7,967,836  | 8,227,310  | 8,550,606  | 9,132,448  |
| Other liabilities.....                                   | 15,173     | 18,515     | 23,100     | 32,091     | 49,586     |
| Totals, Liabilities.....                                 | 7,488,998  | 8,077,240  | 8,359,808  | 8,673,947  | 9,300,113  |
| <b>Income (Canadian business)—</b>                       |            |            |            |            |            |
| Assessments.....                                         | 1,146,134  | 1,174,686  | 1,217,118  | 1,121,650  | 1,041,419  |
| Fees and dues.....                                       | 273,525    | 281,461    | 279,914    | 246,649    | 236,640    |
| Interest and rents.....                                  | 123,814    | 128,549    | 111,514    | 130,889    | 139,769    |
| Other receipts.....                                      | 8,115      | 7,819      | 6,581      | 8,500      | 9,913      |
| Totals, Income.....                                      | 1,551,588  | 1,592,515  | 1,615,127  | 1,507,688  | 1,427,741  |
| <b>Expenditure (Canadian business)—</b>                  |            |            |            |            |            |
| Paid to members.....                                     | 894,513    | 1,008,530  | 981,857    | 1,061,158  | 1,003,937  |
| General expenses.....                                    | 171,383    | 185,820    | 196,802    | 187,449    | 159,167    |
| Other expenditure.....                                   | 6,646      | 6,830      | 7,391      | 7,162      | 7,905      |
| Totals, Expenditure.....                                 | 1,072,542  | 1,201,180  | 1,186,050  | 1,255,769  | 1,171,009  |
| Excesses of income over expenditure.....                 | 479,046    | 391,335    | 429,077    | 251,919    | 256,732    |

**Summary of Life Insurance in Canada, 1933.** —In addition to the business transacted by life insurance companies registered by the Dominion, a considerable volume of business is also transacted by companies licensed by the provinces. Statistics of these provincial companies have been collected since 1915 by the Department of Insurance. Table 18, showing policies effected and in force, premiums received and losses paid, in Canada in 1933, summarizes the volume of business done by both life companies and fraternal societies, whether registered by the Dominion or licensed by the provinces.

18.—Dominion and Provincial Life Insurance in Canada, 1933.

| Business Transacted by—                                                                      | New Policies<br>Effected<br>(net). | Net<br>In Force Dec.<br>31. | Net<br>Premiums<br>Received. | Net<br>Claims<br>Paid. |
|----------------------------------------------------------------------------------------------|------------------------------------|-----------------------------|------------------------------|------------------------|
|                                                                                              | \$                                 | \$                          | \$                           | \$                     |
| 1. Dominion Licensees—                                                                       |                                    |                             |                              |                        |
| (a) Life insurance companies.....                                                            | 578,585,659                        | 6,247,625,974               | 206,954,224                  | 58,754,479             |
| (b) Fraternal.....                                                                           | 11,465,436                         | 170,713,510                 | 3,397,834                    | 3,488,045              |
| <b>Totals for Dominion Companies....</b>                                                     | <b>590,051,095</b>                 | <b>6,418,339,484</b>        | <b>210,352,058</b>           | <b>62,242,524</b>      |
| 2. Provincial Licensees—                                                                     |                                    |                             |                              |                        |
| (a) Provincial companies within provinces<br>by which they are incorporated—                 |                                    |                             |                              |                        |
| (1) Life companies.....                                                                      | 7,777,957                          | 63,959,623                  | 1,811,852                    | 946,800                |
| (2) Fraternal.....                                                                           | 2,345,728                          | 42,671,302                  | 1,149,908                    | 1,062,255              |
| (b) Provincial companies in provinces<br>other than those by which they are<br>incorporated— |                                    |                             |                              |                        |
| (1) Life companies.....                                                                      | 3,460,046                          | 26,566,947                  | 786,137                      | 523,520                |
| (2) Fraternal.....                                                                           | 2,444,336                          | 37,596,219                  | 752,713                      | 636,366                |
| <b>Totals for Provincial Companies....</b>                                                   | <b>16,028,067</b>                  | <b>170,794,091</b>          | <b>4,500,610</b>             | <b>3,169,001</b>       |
| <b>Grand Totals.....</b>                                                                     | <b>606,079,162</b>                 | <b>6,589,133,575</b>        | <b>214,852,668</b>           | <b>65,411,525</b>      |

Section 3.—Miscellaneous Insurance.

Since 1875 the growth of insurance business other than fire and life has been steady. The report of the Superintendent of Insurance for the calendar year 1880 shows that the number of companies licensed for the transaction of accident, guarantee, plate glass and steam boiler insurance—the only four classes of miscellaneous insurance then transacted—was 5, 3, 1 and 1 respectively. The report for the year 1933 shows that miscellaneous insurance in Canada now includes: accident, automobile, aviation, burglary, credit, earthquake, explosion, forgery, guarantee, hail, leakage, live-stock, steam boiler, title, tornado, weather insurance, etc. In 1880, 10 companies transacted business of the miscellaneous kind but in 1933 such insurance was issued by 243 companies, of which 50 were Canadian, 61 British and 132 foreign; 182 of these 243 companies also transacted fire insurance. In addition, 17 fraternal orders or societies carried on sickness insurance as well as life insurance business.

**Accident Insurance.**—The first licence of this kind was issued to the Travelers' Co., of Hartford, Conn., in 1868. The first licence to a Canadian company was issued to the Accident Insurance Co. of Canada, which was organized in 1872 and commenced business in 1874. Much accident insurance has also been sold by companies doing primarily a life insurance business. Seventy-seven companies transacted accident insurance in 1933.

**Automobile Insurance.**—This is now one of the most important branches of the miscellaneous class of insurance. Premiums increased from \$80,446 in 1910 to \$573,604 in 1915 and to \$18,260,176 in 1930; for 1933 they were \$11,933,574, showing decreases of 17.5 p.c. compared with 1932 and 34.6 p.c. compared with 1930. There has been an increase in the number of companies from 7 to 170 during the 23-year period.

**Plate Glass Insurance.**—Policies were first sold in Canada by the Metropolitan Plate Glass Insurance Co., a United States concern, which withdrew from Canada during 1882 to avoid business restrictions. The 79 companies operating in Canada in 1933 received premiums of \$468,120 and incurred claims of \$243,627, compared with premiums of \$510,543 and claims of \$244,152 for 1932.

**Burglary Insurance.**—In 1893 only one company issued burglary policies. A second followed in 1905 and in 1910 five companies were operating, while 75 companies sold this type of insurance during 1933. The premium income of these companies amounted in 1933 to \$1,126,613, and the losses incurred amounted to \$519,045.

**Hail Insurance.**—Insurance against hailstorms is a class of business of comparatively recent development in Canada. During the year 1933, 40 companies undertook this class of risk, the premiums written amounting to \$494,402, and the losses incurred to \$236,632. The total premiums for the 24 years during which this business had been carried on in Canada amounted to \$66,438,192 and the total losses paid to \$45,695,801.

**19.—Insurance other than Fire and Life in Canada, by Classes of Insurance, 1933.<sup>1</sup>**

| Class of Insurance.                                  | Premiums<br>Received. | Losses<br>Incurred. | Unsettled Claims. |           |
|------------------------------------------------------|-----------------------|---------------------|-------------------|-----------|
|                                                      |                       |                     | Not Resisted.     | Resisted. |
|                                                      | \$                    | \$                  | \$                | \$        |
| Guarantee (fidelity).....                            | 1,135,866             | 365,432             | 315,119           | 32,590    |
| Guarantee (surety).....                              | 640,981               | 317,444             | 355,825           | 264,775   |
| Personal accident.....                               | 2,677,423             | 1,263,357           | 590,263           | 74,712    |
| Personal accident and sickness.....                  | 1,570,384             | 988,730             | 213,181           | 1,802     |
| Employers' liability and workmen's compensation..... | 326,645               | 66,738              | 1,194,143         | —         |
| Other accident insurance.....                        | 1,375,892             | 470,030             | 376,985           | 49,660    |
| Sickness.....                                        | 1,232,558             | 880,465             | 354,865           | 5,475     |
| Burglary.....                                        | 1,126,613             | 519,045             | 114,564           | 2,752     |
| Steam boiler.....                                    | 381,408               | 14,110              | 20,248            | —         |
| Hail.....                                            | 494,402               | 236,362             | 750               | 576       |
| Inland transportation.....                           | 993,725               | 299,286             | 57,243            | 11,163    |
| Plate glass.....                                     | 468,120               | 243,627             | 25,123            | —         |
| Automobile.....                                      | 11,933,574            | 5,235,197           | 2,905,702         | 246,077   |
| Live-stock.....                                      | 22,048                | 21,501              | 3,000             | —         |
| Tornado.....                                         | 120,860               | 125,510             | 7,252             | —         |
| Earthquake.....                                      | 2,452                 | —                   | —                 | —         |
| Forgery.....                                         | 56,934                | 9,947               | 18,717            | 357       |
| Rain.....                                            | 6,463                 | 1,628               | 175               | —         |
| Credit.....                                          | 180,888               | 136,968             | 78,710            | —         |
| Machinery.....                                       | 147,762               | 26,618              | 16,704            | —         |
| Fraud.....                                           | 16,266                | 5,075               | —                 | —         |
| Aviation.....                                        | 20,474                | 10,662              | —                 | —         |
| Falling aircraft.....                                | 8,609                 | 4,114               | —                 | —         |
| Sprinkler.....                                       | 6,313                 | 997                 | 424               | —         |
| Explosion (riot and civil commotion).....            | 3,991                 | 92                  | —                 | —         |

<sup>1</sup>Dominion licensees only.

**20.—Income and Expenditure, and Assets and Liabilities of Canadian Companies doing only Insurance Business other than Fire and Life, 1933.**

| Company.                            | Income.          | Expenditure.     | Excess of<br>Income<br>over<br>Expenditure. | Assets.                | Liabilities. <sup>1</sup> | Excess of<br>Assets<br>over<br>Liabilities. |
|-------------------------------------|------------------|------------------|---------------------------------------------|------------------------|---------------------------|---------------------------------------------|
|                                     | \$               | \$               | \$                                          | \$                     | \$                        | \$                                          |
| Boiler Inspection.....              | 278,544          | 422,467          | — 143,923                                   | 916,403                | 455,171                   | 461,232                                     |
| Chartered Trust.....                | 304,316          | 267,542          | 36,774                                      | 4,037,668 <sup>2</sup> | 2,915,463                 | 1,122,205                                   |
| Confederation Life.....             | 32,052           | 29,717           | 2,335                                       | 110,610                | 6,928                     | 103,682                                     |
| Fidelity Insurance.....             | 191,668          | 191,853          | — 185                                       | 479,443                | 161,649                   | 317,794                                     |
| T. Eaton General.....               | 17,402           | 30,208           | — 12,806                                    | 180,718                | 7,085                     | 173,633                                     |
| Guarantee Co. of North America..... | 635,975          | 605,777          | 30,198                                      | 4,322,384              | 1,116,626                 | 3,205,758                                   |
| London Life.....                    | 165,836          | 170,977          | — 5,141                                     | 166,029                | 50,292                    | 115,737                                     |
| Merchants' Casualty.....            | 280,416          | 320,768          | — 40,352                                    | 295,566                | 200,655                   | 94,911                                      |
| North American Accident.....        | 112,432          | 70,134           | 42,298                                      | 471,907                | 34,441                    | 437,466                                     |
| Protective Association.....         | 371,864          | 392,493          | — 20,629                                    | 293,706                | 152,523                   | 141,183                                     |
| Royal Guardians.....                | 8,018            | 2,417            | 601                                         | 21,764                 | 9,984                     | 11,780                                      |
| <b>Totals.....</b>                  | <b>2,393,523</b> | <b>2,504,353</b> | <b>— 110,830</b>                            | <b>11,296,198</b>      | <b>5,110,817</b>          | <b>6,185,381</b>                            |

<sup>1</sup>Not including capital stock.

<sup>2</sup>Including \$1,046,846 loans on collateral, and \$11,764 deposits with trust companies for investment.



**21.—Income and Expenditure in Canada of Companies, other than Canadian, doing only Insurance Business other than Fire and Life, 1933.**

| Company.                                               | Income.          |                                 |                  | Expenditure.         |                       |                     | Excess of Income over Expenditure. |
|--------------------------------------------------------|------------------|---------------------------------|------------------|----------------------|-----------------------|---------------------|------------------------------------|
|                                                        | Pre-miums.       | Interest and Divi-dends Earned. | Total Income.    | Net Losses Incurred. | General Expendi-ture. | Total Expendi-ture. |                                    |
|                                                        | \$               | \$                              | \$               | \$                   | \$                    | \$                  | \$                                 |
| Etna Casualty.....                                     | 37,518           | 9,741                           | 70,232           | 2,314                | 40,140                | 42,454              | 27,778                             |
| Etna Life.....                                         | 36,199           | 5,503                           | 41,701           | 25,698               | 5,922                 | 31,620              | 10,081                             |
| Alliance Casualty.....                                 | None             | None                            | None             | None                 | None                  | None                | None                               |
| American and Foreign.....                              | None             | 1,854                           | 1,854            | None                 | 10                    | 10                  | 1,844                              |
| American Automobile Fire.....                          | 150,182          | 2,007                           | 152,188          | 37,015               | 73,906                | 110,921             | 41,267                             |
| American Automobile.....                               | 433,309          | 1,894                           | 435,204          | 202,526              | 216,981               | 419,507             | 15,697                             |
| American Credit.....                                   | 141,855          | 7,085                           | 149,176          | 84,696               | 63,205                | 147,901             | 1,275                              |
| American Surety.....                                   | 31,057           | 5,885                           | 36,942           | 10,144               | 15,260                | 25,405              | 11,537                             |
| Bee Hail.....                                          | 4,397            | 3,746                           | 8,142            | 929                  | 2,798                 | 3,727               | 4,415                              |
| British and Foreign.....                               | 3,909            | 6,938                           | 10,846           | 200                  | 2,532                 | 2,732               | 8,114                              |
| Central West Casualty.....                             | -2,192           | 720                             | -830             | 10,281               | 7,757                 | 18,038              | -18,868                            |
| Century Indemnity.....                                 | -760             | 14,426                          | 13,666           | 328                  | 6,511                 | 6,839               | 6,827                              |
| Continental Casualty.....                              | 455,634          | 24,719                          | 510,353          | 341,422              | 275,157               | 616,579             | -106,226                           |
| Employers' Reinsurance.....                            | 166,612          | 8,234                           | 174,846          | 41,587               | 67,673                | 109,259             | 65,587                             |
| Fidelity and Casualty.....                             | 9,809            | None                            | 9,809            | -1,868               | 5,729                 | 3,862               | 5,947                              |
| Fireman's Fund Indemnity.....                          | 332              | None                            | 332              | 108                  | 1,693                 | 1,801               | -1,469                             |
| Foreigne Transport and Accident Insurance Company..... | None             | None                            | None             | None                 | None                  | None                | None                               |
| General Casualty of America.....                       | 108,691          | 5,164                           | 113,855          | 40,018               | 57,305                | 97,323              | 16,532                             |
| General Casualty of Paris.....                         | 272,257          | 20,458                          | 293,714          | 111,175              | 168,593               | 279,768             | 13,946                             |
| General Exchange.....                                  | 272,349          | 16,165                          | 289,741          | 97,286               | 70,885                | 168,171             | 121,570                            |
| General Indemnity.....                                 | 97               | 625                             | 722              | 956                  | 128                   | 1,084               | -362                               |
| General Reinsurance.....                               | None             | 7,257                           | 7,257            | None                 | None                  | None                | 7,257                              |
| Great American Indemnity.....                          | 77,937           | 9,341                           | 87,278           | 37,079               | 54,457                | 91,536              | -4,258                             |
| Hartford Accident.....                                 | 154,074          | 15,158                          | 169,231          | 65,959               | 89,302                | 155,261             | 13,970                             |
| Hartford Live Stock.....                               | 16,437           | 3,126                           | 19,564           | 16,697               | 9,033                 | 25,731              | -6,167                             |
| Hartford Steam Boiler.....                             | 7,154            | None                            | 7,154            | None                 | 920                   | 920                 | 6,234                              |
| Home Indemnity.....                                    | 11,606           | 4,500                           | 16,106           | 11,531               | 8,938                 | 20,468              | -4,362                             |
| Indemnity Insurance.....                               | 131,124          | 17,362                          | 148,486          | 87,855               | 80,705                | 168,560             | -20,074                            |
| International Fidelity.....                            | 4,341            | None                            | 4,342            | 487                  | 790                   | 1,277               | 3,065                              |
| Lloyds Insurance.....                                  | -3,609           | None                            | -3,609           | 7,478                | 12,312                | 19,790              | -23,399                            |
| Loyal Protective.....                                  | 216,683          | 6,885                           | 223,568          | 122,231              | 47,137                | 169,549             | 54,019                             |
| Lumbermen's Mutual Casualty.....                       | 310,362          | 11,931                          | 322,292          | 160,357              | 83,136                | 317,524             | 4,768                              |
| Maryland Casualty.....                                 | 144,534          | 32,857                          | 177,391          | 114,107              | 96,082                | 210,188             | -32,797                            |
| Metropolitan Casualty.....                             | 74,817           | 24,000                          | 98,818           | 27,779               | 60,411                | 88,190              | 10,628                             |
| Metropolitan Life.....                                 | 526,179          | 17,150                          | 543,329          | 328,003              | 134,820               | 471,053             | 72,276                             |
| National Surety.....                                   | 167,520          | 27,580                          | 197,887          | 106,195              | 101,591               | 207,786             | -9,899                             |
| New York Casualty.....                                 | -76              | 1,415                           | 1,340            | -3,955               | 1,070                 | -2,885              | 4,235                              |
| North West Casualty.....                               | 14,752           | 2,064                           | 16,816           | 6,706                | 6,412                 | 13,118              | 3,698                              |
| Occidental Life.....                                   | 129              | 3,275                           | 3,404            | 4                    | 43                    | 47                  | 3,357                              |
| Ocean Marine.....                                      | None             | None                            | None             | None                 | None                  | None                | None                               |
| Preferred Accident.....                                | 10,467           | 10,000                          | 20,467           | 13,704               | 24,329                | 38,033              | -17,566                            |
| Prudential Insurance.....                              | 3,211            | None                            | 3,211            | 28                   | 494                   | 974                 | 2,237                              |
| St. Paul-Mercury.....                                  | 15,829           | 2,635                           | 18,465           | 5,642                | 17,148                | 22,790              | -4,325                             |
| Standard Marine.....                                   | None             | 500                             | 500              | None                 | None                  | None                | 500                                |
| Cornado Inter-Insurance.....                           | 520              | 495                             | 1,015            | None                 | 213                   | 1,470               | -455                               |
| Travelers' Indemnity.....                              | 424,288          | 36,211                          | 460,499          | 146,037              | 209,694               | 355,731             | 104,768                            |
| Travelers' Insurance.....                              | 624,436          | 62,065                          | 686,501          | 238,875              | 297,127               | 536,002             | 150,499                            |
| United States Fidelity.....                            | 533,855          | 52,800                          | 586,655          | 259,951              | 312,995               | 572,945             | 13,710                             |
| United States Guarantee.....                           | 25,881           | 230                             | 26,113           | 2,339                | 14,288                | 16,627              | 9,486                              |
| Zurich.....                                            | 320,214          | 30,498                          | 350,712          | 172,212              | 168,817               | 341,028             | 9,684                              |
| <b>Totals.....</b>                                     | <b>5,964,920</b> | <b>514,499</b>                  | <b>6,507,255</b> | <b>2,932,116</b>     | <b>2,914,619</b>      | <b>5,930,714</b>    | <b>576,571</b>                     |

<sup>1</sup>Including \$27,866, sundry income.

<sup>2</sup>Including \$83,979, dividends returned to policyholders

## 22.—Dominion and Provincial Insurance in Canada, other than Fire and Life, 1933.

### NET PREMIUMS WRITTEN.

| Class of Business.                                       | Dominion Licensees. | Provincial Licensees.                                                       |                                                                                          |                                   | Grand Total.                  |
|----------------------------------------------------------|---------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
|                                                          |                     | (a)<br>Prov. Cos.<br>within<br>Provinces<br>by which<br>they are<br>Incorp. | (b)<br>Prov. Cos.<br>in Provinces<br>other than<br>those by<br>which they<br>are Incorp. | Total<br>Provincial<br>Licensees. |                               |
| Accident—                                                | \$                  | \$                                                                          | \$                                                                                       | \$                                | \$                            |
| (1) Personal.....                                        | 2,677,423           | 25,605                                                                      | 10,359                                                                                   | 36,564                            | 2,713,987                     |
| (2) Employers' liability and workmen's compensation..... | 326,645             | 334,299                                                                     | 49,352                                                                                   | 383,651                           | 710,296                       |
| (3) Other.....                                           | 1,375,892           | 36,837                                                                      | 11,445                                                                                   | 48,282                            | 1,424,174                     |
| Combined accident and sickness.....                      | 1,570,384           | 63,974                                                                      | 64,267                                                                                   | 128,241                           | 1,698,625                     |
| Falling aircraft.....                                    | 8,609               | None                                                                        | None                                                                                     | None                              | 8,609                         |
| Automobile.....                                          | 11,933,574          | 1,028,421                                                                   | 281,134                                                                                  | 1,309,555                         | 13,243,129                    |
| Aviation.....                                            | 20,474              | None                                                                        | None                                                                                     | None                              | 20,474                        |
| Burglary.....                                            | 1,126,613           | 25,010                                                                      | 10,779                                                                                   | 35,789                            | 1,162,402                     |
| Credit.....                                              | 180,888             | None                                                                        | None                                                                                     | None                              | 180,888                       |
| Earthquake.....                                          | 2,452               | None                                                                        | None                                                                                     | None                              | 2,452                         |
| Electrical machinery.....                                | 147,762             | None                                                                        | None                                                                                     | None                              | 147,762                       |
| Explosion (riot and civil commotion).....                | 3,991               | None                                                                        | None                                                                                     | None                              | 3,991                         |
| Forgery.....                                             | 56,934              | None                                                                        | None                                                                                     | None                              | 56,934                        |
| Fraud.....                                               | 16,266              | None                                                                        | None                                                                                     | None                              | 16,266                        |
| Guarantee (fidelity).....                                | 1,135,866           | 28,733                                                                      | 19,802                                                                                   | 48,535                            | 1,184,401                     |
| Guarantee (surety).....                                  | 640,981             | 28,002                                                                      | 33,854                                                                                   | 61,856                            | 702,837                       |
| Hail.....                                                | 494,402             | 15,795                                                                      | None                                                                                     | 15,795                            | 510,197                       |
| Inland transportation.....                               | 993,725             | 7,218                                                                       | 7,505                                                                                    | 14,723                            | 1,008,448                     |
| Live-stock.....                                          | 22,048              | None                                                                        | None                                                                                     | None                              | 22,048                        |
| Plate glass.....                                         | 468,120             | 44,265                                                                      | 4,360                                                                                    | 48,625                            | 516,745                       |
| Rain.....                                                | 6,463               | None                                                                        | None                                                                                     | None                              | 6,463                         |
| Sickness.....                                            | 1,232,553           | 2,796                                                                       | None                                                                                     | 2,796                             | 1,235,354                     |
| Sprinkler <sup>1</sup> .....                             | 6,313               | None                                                                        | None                                                                                     | None                              | 6,313                         |
| Steam boiler.....                                        | 381,408             | None                                                                        | None                                                                                     | None                              | 381,408                       |
| Title.....                                               | None                | None                                                                        | None                                                                                     | None                              | None                          |
| Tornado.....                                             | 120,860             | 2,764                                                                       | 385                                                                                      | 3,149                             | 124,009                       |
| Weather.....                                             | None                | 77,924                                                                      | 6,183                                                                                    | 84,107                            | 84,107                        |
| <b>Totals.....</b>                                       | <b>24,950,651</b>   | <b>1,721,643</b>                                                            | <b>500,025</b>                                                                           | <b>2,221,668<sup>2</sup></b>      | <b>27,172,319<sup>3</sup></b> |

### NET LOSSES INCURRED.

|                                                          |                   |                |                |                              |                               |
|----------------------------------------------------------|-------------------|----------------|----------------|------------------------------|-------------------------------|
| Accident—                                                |                   |                |                |                              |                               |
| (1) Personal.....                                        | 1,263,357         | 15,898         | 2,563          | 18,461                       | 1,281,818                     |
| (2) Employers' liability and workmen's compensation..... | 66,738            | 60,040         | 23,443         | 83,483                       | 150,221                       |
| (3) Other.....                                           | 470,030           | 19,562         | 13,389         | 32,951                       | 502,981                       |
| Combined accident and sickness.....                      | 988,730           | 27,995         | 22,155         | 50,150                       | 1,038,880                     |
| Falling aircraft.....                                    | 4,114             | None           | None           | None                         | 4,114                         |
| Automobile.....                                          | 5,235,197         | 527,365        | 128,097        | 653,462                      | 5,888,659                     |
| Aviation.....                                            | 10,662            | None           | None           | None                         | 10,662                        |
| Burglary.....                                            | 519,045           | 13,635         | 3,140          | 16,775                       | 535,820                       |
| Credit.....                                              | 136,968           | None           | None           | None                         | 136,968                       |
| Earthquake.....                                          | None              | None           | None           | None                         | None                          |
| Electrical machinery.....                                | 36,618            | None           | None           | None                         | 36,618                        |
| Explosion (riot and civil commotion).....                | 92                | None           | None           | None                         | 92                            |
| Forgery.....                                             | 9,947             | None           | None           | None                         | 9,947                         |
| Fraud.....                                               | 5,075             | None           | None           | None                         | 5,075                         |
| Guarantee (fidelity).....                                | 365,432           | 9,919          | 7,770          | 17,689                       | 383,121                       |
| Guarantee (surety).....                                  | 317,444           | 7,827          | 4,608          | 12,435                       | 329,879                       |
| Hail.....                                                | 236,362           | 7,891          | None           | 7,891                        | 244,253                       |
| Inland transportation.....                               | 299,266           | 2,106          | 1,787          | 3,893                        | 303,159                       |
| Live-stock.....                                          | 21,501            | None           | None           | None                         | 21,501                        |
| Plate glass.....                                         | 243,627           | 25,231         | 1,181          | 26,412                       | 270,039                       |
| Rain.....                                                | 1,628             | None           | None           | None                         | 1,628                         |
| Sickness.....                                            | 880,465           | 1,428          | None           | 1,428                        | 881,893                       |
| Sprinkler <sup>1</sup> .....                             | 997               | None           | None           | None                         | 997                           |
| Steam boiler.....                                        | 14,110            | None           | None           | None                         | 14,110                        |
| Title.....                                               | None              | None           | None           | None                         | None                          |
| Tornado.....                                             | 125,510           | 1,131          | 75             | 1,206                        | 126,716                       |
| Weather.....                                             | None              | 96,391         | 4,897          | 101,288                      | 101,288                       |
| <b>Totals.....</b>                                       | <b>11,252,915</b> | <b>816,419</b> | <b>211,105</b> | <b>1,027,524<sup>2</sup></b> | <b>12,250,439<sup>3</sup></b> |

<sup>1</sup> This business was transacted by companies not holding certificates of registry to transact fire insurance.

<sup>2</sup> Excluding \$1,466,989, premiums of fraternal benefit societies for accident, sickness and funeral business.

<sup>3</sup> Excluding \$939,465, losses of fraternal benefit societies for accident, sickness and funeral business.

### Section 4.—Government Annuities.

In the early years of the 20th century, there arose throughout the civilized world a distinct movement in favour of ameliorating the living conditions of the less well-off members of society. One form which this movement took in the United Kingdom was that of old age pensions, granted by the State as a gift to its poorer citizens, whose earnings were very generally insufficient to permit of a margin of saving. In Canada, where wages were higher and a margin of saving was possible, the movement at first took the form of providing, by establishing Government annuities, an absolutely safe investment for such savings, which had only too often been lost through the inexperience of their owners, leaving the latter a burden upon the charity of relatives or of the public.\* The cost of administering these annuities is borne by the Dominion Government.

Under the Government Annuities Act (c. 7, R.S.C., 1927, amended by c. 33, R.S.C., 1931), His Majesty the King, represented by the Minister (at present the Minister of Labour), may sell to persons over the age of 5 years, domiciled or resident in Canada, immediate or deferred annuities of not less than \$10 nor more than \$1,200 (1) for the life of the annuitant, (2) for a term of years certain, not exceeding 20 years, or for the life of the annuitant, whichever period shall be the longer, or (3) to any two persons domiciled in Canada during their joint lives, and with or without continuation to the survivor. The property and interest of any annuitant in any contract for an annuity is neither transferable nor attachable. The purchaser may contract that, in the event of the death of the annuitant before the date fixed for the annuity to begin, all money paid shall be refunded to the purchaser or his legal representatives with interest at the rate of 4 p.c., compounded yearly.

From Sept. 1, 1908, the date of the inception of the Annuities Branch, up to and inclusive of Mar. 31, 1934, the total number of annuity contracts issued was 18,806. Of these contracts, 2,241 have been cancelled, leaving in force on Mar. 31, 1934, 16,565 contracts. The total amount of purchase money received during the same period was \$43,285,490. Table 23 gives the details of annuities contracted for and purchase money received from 1909 to 1934, by years.

\*A Dominion-Provincial non-contributory scheme of old age pensions, providing for the payment, to persons 70 years and over, of pensions not exceeding \$20 per month, contributed by the Dominion and the provinces which become parties to the scheme, was enacted by Chapter 35 of the Dominion Statutes of 1927. The system is now in effect in British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, Nova Scotia, Prince Edward Island, and the Northwest Territories. For further particulars, see pp. 837-838.

**23.—Government Annuities Contracted for, and Purchase Money Received, fiscal years ended Mar. 31, 1909-34,**

| Fiscal Years.           | Contracts. | Purchase Money Received. | Fiscal Years.      | Contracts.    | Purchase Money Received. |
|-------------------------|------------|--------------------------|--------------------|---------------|--------------------------|
|                         | No.        | \$                       |                    | No.           | \$                       |
| 1909 <sup>1</sup> ..... | 66         | 50,391                   | 1923.....          | 339           | 1,028,353                |
| 1910.....               | 566        | 434,491                  | 1924.....          | 409           | 1,458,819                |
| 1911.....               | 1,069      | 393,441                  | 1925.....          | 486           | 1,606,822                |
| 1912.....               | 1,032      | 441,601                  | 1926.....          | 668           | 1,938,921                |
| 1913.....               | 373        | 417,136                  | 1927.....          | 503           | 1,894,885                |
| 1914.....               | 318        | 390,887                  | 1928.....          | 1,223         | 3,843,088                |
| 1915.....               | 264        | 314,765                  | 1929.....          | 1,328         | 4,272,419                |
| 1916.....               | 325        | 441,696                  | 1930.....          | 1,257         | 3,156,475                |
| 1917.....               | 285        | 432,272                  | 1931.....          | 1,772         | 3,612,234                |
| 1918.....               | 187        | 332,792                  | 1932.....          | 1,726         | 4,194,384                |
| 1919.....               | 147        | 322,154                  | 1933.....          | 1,375         | 3,547,345                |
| 1920.....               | 204        | 408,719                  | 1934.....          | 2,412         | 7,071,439                |
| 1921.....               | 195        | 531,800                  |                    |               |                          |
| 1922.....               | 277        | 748,160                  |                    |               |                          |
|                         |            |                          | <b>Totals.....</b> | <b>18,806</b> | <b>43,285,490</b>        |

<sup>1</sup>Seven months.

Statistics of the Annuities Fund and value of all contracts issued are given in Tables 24 and 25. From Sept. 1, 1908 to Mar. 31, 1934, 18,806 annuities had been issued. On Mar. 31, 1934, 6,858 immediate annuities and 9,707 deferred annuities were in force. The total value of these annuities on that date was \$35,169,533 and the amount of immediate annuities in force on that date was \$2,844,154.

#### 24.—Government Annuities Fund Statement, fiscal years ended Mar. 31, 1930-34.

| Item.                                               | 1930.            | 1931.            | 1932.            | 1933.            | 1934.            |
|-----------------------------------------------------|------------------|------------------|------------------|------------------|------------------|
|                                                     | \$               | \$               | \$               | \$               | \$               |
| <b>ASSETS.</b>                                      |                  |                  |                  |                  |                  |
| Fund at beginning of year.....                      | 18,369,100       | 20,612,250       | 23,306,954       | 26,582,544       | 29,163,903       |
| Receipts during the year, less payments..           | 2,243,150        | 2,694,704        | 3,275,576        | 2,581,359        | 5,859,573        |
| Fund at end of year.....                            | 20,612,250       | 23,306,954       | 26,582,544       | 29,163,903       | 35,023,476       |
| <b>LIABILITIES.</b>                                 |                  |                  |                  |                  |                  |
| Net present value of all outstanding contracts..... | 20,720,895       | 23,568,894       | 26,871,979       | 29,348,141       | 35,169,533       |
| <b>RECEIPTS.</b>                                    |                  |                  |                  |                  |                  |
| For Immediate Annuities.....                        | 2,484,818        | 2,650,506        | 3,047,079        | 2,473,635        | 5,292,073        |
| For Deferred Annuities.....                         | 682,887          | 992,843          | 1,191,070        | 1,106,542        | 1,809,924        |
| Interest on fund.....                               | 757,393          | 843,374          | 979,833          | 1,062,640        | 1,230,751        |
| Refunds.....                                        | 184              | 1,679            | 905              | 804              | 5,057            |
| For amount transferred to maintain reserve.....     | -                | 108,644          | 261,939          | 289,435          | 184,238          |
| <b>Totals.....</b>                                  | <b>3,925,282</b> | <b>4,597,046</b> | <b>5,480,876</b> | <b>4,933,056</b> | <b>8,522,043</b> |
| <b>PAYMENTS.</b>                                    |                  |                  |                  |                  |                  |
| Payments under annuity contracts.....               | 1,646,699        | 1,849,413        | 2,122,108        | 2,301,110        | 2,598,070        |
| Return of premiums with interest.....               | 24,203           | 22,795           | 39,427           | 17,756           | 33,842           |
| Return of premiums without interest.....            | 11,230           | 30,133           | 43,766           | 32,831           | 30,558           |
| Balance at end of year.....                         | 2,243,150        | 2,694,705        | 3,275,576        | 2,581,359        | 5,859,573        |
| <b>Totals.....</b>                                  | <b>3,925,282</b> | <b>4,597,046</b> | <b>5,480,876</b> | <b>4,933,056</b> | <b>8,522,043</b> |

#### 25.—Valuation of Annuity Contracts Issued Pursuant to the Government Annuities Act, 1908, as at Mar. 31, 1933 and 1934.

| Description of Contract.       | 1933.                        |                              |                                                       | 1934.                        |                              |                                                       |
|--------------------------------|------------------------------|------------------------------|-------------------------------------------------------|------------------------------|------------------------------|-------------------------------------------------------|
|                                | Number of Annuity Contracts. | Total Annual Payments.       | Net Value on Mar. 31, 1933, of Outstanding Contracts. | Number of Annuity Contracts. | Total Annual Payments.       | Net Value on Mar. 31, 1934, of Outstanding Contracts. |
|                                |                              | \$                           | \$                                                    |                              | \$                           | \$                                                    |
| 1—Immediate Annuities.....     | 3,468                        | 1,491,401                    | 11,943,335                                            | 4,303                        | 1,803,666                    | 14,490,378                                            |
| 2—Immediate Guaranteed.....    | 1,507                        | 514,106                      | 6,204,759                                             | 1,669                        | 598,611                      | 6,394,780                                             |
| 3—Immediate Last Survivor..... | 849                          | 429,765                      | 4,819,126                                             | 886                          | 441,877                      | 5,335,472                                             |
| 4—Deferred Annuities.....      | 8,576                        | -                            | 7,380,921                                             | 9,707                        | -                            | 8,948,903                                             |
| <b>Totals.....</b>             | <b>14,400</b>                | <b>2,435,272<sup>1</sup></b> | <b>29,348,141</b>                                     | <b>16,565</b>                | <b>2,844,154<sup>1</sup></b> | <b>35,169,533</b>                                     |

<sup>1</sup>Amount of immediate annuities.

It will be seen from the statements above that Government Annuities have grown steadily in favour, especially since 1921, the fund reaching a total of \$35,023,476 on Mar. 31, 1934.



## CHAPTER XXIV.—COMMERCIAL FAILURES.

According to Section 91 of the British North America Act, "the exclusive legislative authority of the Parliament of Canada" extends to bankruptcy and insolvency legislation, and an Insolvency Act (32-33 Vict., c. 16) was actually passed by the Dominion Parliament in 1869, applying to the four original provinces. This Act was in force for four years and was renewed by c. 46 of the Statutes of 1874, while in 1875 a new Insolvency Act (38 Vict., c. 16) applicable to the whole Dominion was passed, but was repealed in 1880. After this there was no Dominion legislation on the subject of bankruptcy until 1919. During the interval of nearly 40 years commercial failures were handled under provincial legislation, and the statistics relating to such failures during this period were compiled and published by Dun's and Bradstreet's commercial agencies. In 1919 a general Dominion Bankruptcy Act was passed (9-10 Geo. V, c. 36). Statistics of commercial failures dealt with under this Act since it came into force in 1920 have been compiled and published by the Dominion Bureau of Statistics. (See pp. 1036-1038.)

The history of commercial failures in Canada is traced by years from 1915 in Table 3.

**Failures, by Divisions of Industry.**—In every year the great majority of the commercial failures of the country are found among the trading establishments which are so much more numerous than the manufacturing. Thus, according to Dun and Bradstreet's records, out of a total of 1,627 commercial failures in Canada in 1934, 1,027 were among the retail trading establishments, including 413 in food, 195 in textiles and clothes and 104 general stores.

Out of the 389 manufacturers who failed, 93 were in foods, 63 in the textiles and clothes business and 46 among manufacturers of forest products. The larger scale on which manufacturers operate is evident from the fact that the defaulted liabilities of the 389 manufacturers were nearly as great as those of the 1,027 retail traders. The figures of commercial failures are analysed in detail for the years 1933 and 1934 in Table 1, while the totals are given by provinces for the same years in Table 2.

### 1.—Commercial Failures in Canada, by Industries, calendar years 1933 and 1934.

(From the *Dun and Bradstreet Review*.)

| Industry and Division.            | Failures.  |            | Liabilities.      |                  |
|-----------------------------------|------------|------------|-------------------|------------------|
|                                   | 1933.      | 1934.      | 1933.             | 1934.            |
|                                   | No.        | No.        | \$                | \$               |
| <b>Manufacturers—</b>             |            |            |                   |                  |
| Chemicals and drugs.....          | 22         | 15         | 297,125           | 138,309          |
| Foods.....                        | 106        | 93         | 1,908,013         | 1,878,472        |
| Forest products.....              | 58         | 46         | 1,197,315         | 1,252,834        |
| Iron, steel and hardware.....     | 43         | 36         | 850,126           | 405,211          |
| Leather and shoes.....            | 30         | 29         | 1,168,571         | 452,830          |
| Machinery.....                    | 18         | 8          | 195,081           | 104,375          |
| Non-ferrous metals.....           | 22         | 9          | 328,479           | 232,637          |
| Paper and paper products.....     | 2          | 1          | 75,607            | 14,622           |
| Petroleum and coal.....           | 6          | 3          | 168,329           | 107,369          |
| Printing and publishing.....      | 19         | 15         | 429,097           | 201,971          |
| Rubber products.....              | 3          | 2          | 258,655           | 22,428           |
| Stone, clay and glass.....        | 17         | 14         | 499,506           | 247,308          |
| Textiles and clothes.....         | 116        | 63         | 2,220,717         | 957,268          |
| Transportation equipment.....     | 21         | 14         | 318,373           | 248,657          |
| All other.....                    | 61         | 41         | 870,603           | 774,298          |
| <b>Totals, Manufacturers.....</b> | <b>544</b> | <b>389</b> | <b>10,785,547</b> | <b>7,038,589</b> |

### 1.—Commercial Failures in Canada, by Industries, calendar years 1933 and 1934 —concluded.

| Industry and Division.                     | Failures.    |              | Liabilities.      |                   |
|--------------------------------------------|--------------|--------------|-------------------|-------------------|
|                                            | 1933.        | 1934.        | 1933.             | 1934.             |
|                                            | No.          | No.          | \$                | \$                |
| <b>Retail Dealers—</b>                     |              |              |                   |                   |
| Books and periodicals.....                 | 11           | 4            | 101,977           | 43,663            |
| Chemicals and drugs.....                   | 68           | 48           | 567,845           | 445,941           |
| Foods.....                                 | 530          | 413          | 2,483,621         | 2,759,619         |
| Forest products.....                       | 34           | 28           | 798,853           | 475,416           |
| General stores.....                        | 158          | 104          | 1,639,081         | 858,468           |
| Iron, steel and hardware.....              | 73           | 54           | 653,830           | 538,692           |
| Leather and shoes.....                     | 73           | 36           | 1,887,653         | 280,568           |
| Machinery.....                             | 28           | 11           | 305,304           | 102,092           |
| Non-ferrous metals.....                    | 46           | 18           | 534,592           | 131,658           |
| Paper and paper products.....              | 16           | 7            | 107,507           | 118,129           |
| Petroleum and coal.....                    | 30           | 29           | 423,020           | 240,222           |
| Rubber goods.....                          | 2            | 2            | 850               | 6,975             |
| Stone, clay and glass.....                 | 5            | 5            | 28,291            | 46,879            |
| Textiles and clothes.....                  | 330          | 195          | 2,660,834         | 955,855           |
| Transportation equipment.....              | 50           | 21           | 613,487           | 1,057,660         |
| All other.....                             | 67           | 52           | 440,669           | 363,444           |
| Totals, Retail Dealers.....                | 1,521        | 1,027        | 13,247,414        | 8,425,281         |
| <b>Wholesale Dealers—</b>                  |              |              |                   |                   |
| Books and periodicals.....                 | —            | 1            | —                 | 13,750            |
| Foods.....                                 | 24           | 18           | 292,588           | 120,896           |
| Chemicals and drugs.....                   | —            | 2            | —                 | 230,845           |
| Forest products.....                       | 6            | 4            | 198,404           | 197,427           |
| Iron, steel and hardware.....              | 5            | 3            | 367,766           | 54,000            |
| Leather and shoes.....                     | 5            | 3            | 145,623           | 57,660            |
| Machinery.....                             | 2            | 1            | 10,980            | 5,830             |
| Non-ferrous metals.....                    | 2            | —            | 155,619           | —                 |
| Paper and paper products.....              | 5            | 1            | 49,889            | 3,422             |
| Petroleum and coal.....                    | 3            | 5            | 61,192            | 29,541            |
| Stone, clay and glass.....                 | 2            | —            | 44,795            | —                 |
| Textiles and clothes.....                  | 9            | 5            | 72,982            | 1,280,677         |
| Transportation equipment.....              | 3            | 1            | 23,130            | 3,978             |
| All other.....                             | 12           | 12           | 300,078           | 174,782           |
| Totals, Wholesale Dealers.....             | 78           | 56           | 1,723,046         | 2,172,808         |
| <b>Agents and Commercial Service—</b>      |              |              |                   |                   |
| Totals, Agents and Commercial Service..... | 201          | 155          | 3,494,834         | 3,091,336         |
| <b>Grand Totals.....</b>                   | <b>2,344</b> | <b>1,627</b> | <b>29,250,841</b> | <b>20,728,014</b> |

### 2.—Commercial Failures in Canada, by Provinces, calendar years 1933 and 1934.

(From Dun's Bulletin.)

| Province.                 | Failures.    |              | Assets.           |                   | Liabilities.      |                   |
|---------------------------|--------------|--------------|-------------------|-------------------|-------------------|-------------------|
|                           | 1933.        | 1934.        | 1933.             | 1934.             | 1933.             | 1934.             |
|                           | No.          | No.          | \$                | \$                | \$                | \$                |
| Prince Edward Island..... | 15           | 15           | 40,229            | 10,020            | 121,076           | 84,627            |
| Nova Scotia.....          | 92           | 59           | 245,282           | 167,736           | 853,693           | 539,180           |
| New Brunswick.....        | 47           | 37           | 437,425           | 187,902           | 675,893           | 263,169           |
| Quebec.....               | 919          | 636          | 8,242,270         | 6,387,632         | 12,205,341        | 10,136,792        |
| Ontario.....              | 813          | 571          | 8,244,849         | 4,181,678         | 10,762,325        | 6,581,293         |
| Manitoba.....             | 188          | 140          | 1,606,219         | 815,903           | 2,019,843         | 1,103,876         |
| Saskatchewan.....         | 51           | 39           | 258,853           | 308,913           | 377,803           | 362,272           |
| Alberta.....              | 104          | 57           | 586,863           | 336,782           | 781,597           | 432,497           |
| British Columbia.....     | 115          | 73           | 606,933           | 583,187           | 1,453,270         | 1,224,308         |
| <b>Totals.....</b>        | <b>2,344</b> | <b>1,627</b> | <b>20,268,923</b> | <b>12,979,753</b> | <b>29,250,841</b> | <b>20,728,014</b> |

3.—Commercial Failures in Canada and Newfoundland, by Classes, calendar years 1915-34, and by Provinces, 1934.

(From *Dun's Bulletin*.)

| Year and Province.        | Trading. |                    | Manufacturing. |                    | Other Commercial. |                    | Total Commercial. |               | Banking.           |     |              |
|---------------------------|----------|--------------------|----------------|--------------------|-------------------|--------------------|-------------------|---------------|--------------------|-----|--------------|
|                           | No.      | Liabilities.<br>\$ | No.            | Liabilities.<br>\$ | No.               | Liabilities.<br>\$ | No.               | Assets.<br>\$ | Liabilities.<br>\$ | No. | Liabilities. |
|                           |          |                    |                |                    |                   |                    |                   |               |                    |     |              |
| 1915.....                 | 1,888    | 21,696,890         | 655            | 13,877,414         | 118               | 5,558,017          | 2,661             | 39,526,358    | 41,162,321         | 1   | 150,000      |
| 1916.....                 | 1,237    | 12,290,368         | 363            | 8,796,646          | 85                | 3,982,530          | 1,685             | 19,670,542    | 25,099,534         | -   | -            |
| 1917.....                 | 777      | 8,417,239          | 261            | 7,455,094          | 59                | 2,369,132          | 1,097             | 13,051,900    | 18,241,465         | -   | -            |
| 1918.....                 | 590      | 5,132,397          | 232            | 8,248,807          | 51                | 1,111,273          | 873               | 11,251,341    | 14,502,477         | -   | -            |
| 1919.....                 | 494      | 4,475,628          | 213            | 10,234,477         | 48                | 1,546,154          | 758               | 10,741,441    | 16,256,259         | -   | -            |
| 1920.....                 | 771      | 7,704,505          | 255            | 15,871,216         | 52                | 2,918,580          | 1,078             | 18,569,516    | 26,494,301         | -   | -            |
| 1921.....                 | 1,739    | 29,886,569         | 559            | 33,976,790         | 153               | 9,435,752          | 2,451             | 57,158,397    | 73,299,111         | 1   | 45,233       |
| 1922.....                 | 2,717    | 33,004,203         | 857            | 39,080,791         | 121               | 5,983,965          | 3,695             | 63,097,789    | 78,068,959         | 1   | 222,480      |
| 1923.....                 | 2,319    | 31,339,763         | 792            | 31,791,332         | 136               | 2,679,228          | 3,247             | 46,833,195    | 65,810,382         | 4   | 18,500,000   |
| 1924.....                 | 1,720    | 21,324,089         | 625            | 36,542,658         | 129               | 6,664,228          | 2,474             | 47,037,427    | 64,530,975         | 1   | 100,000      |
| 1925.....                 | 1,093    | 19,514,049         | 563            | 24,046,514         | 115               | 3,297,223          | 2,371             | 32,651,834    | 45,767,825         | -   | -            |
| 1926.....                 | 1,548    | 17,320,905         | 527            | 16,465,754         | 121               | 3,296,225          | 2,196             | 25,668,509    | 37,082,882         | -   | -            |
| 1927.....                 | 1,544    | 16,506,799         | 502            | 15,347,401         | 136               | 2,547,395          | 2,182             | 24,420,941    | 34,461,595         | -   | -            |
| 1928.....                 | 1,469    | 24,540,931         | 506            | 17,032,983         | 145               | 11,846,285         | 2,120             | 36,407,391    | 53,420,199         | -   | -            |
| 1929.....                 | 1,546    | 17,435,263         | 624            | 19,967,419         | 140               | 7,037,962          | 2,310             | 29,572,569    | 44,440,639         | -   | -            |
| 1930.....                 | 1,888    | 21,840,829         | 619            | 21,249,918         | 234               | 14,100,746         | 2,741             | 39,474,582    | 57,191,493         | -   | -            |
| 1931.....                 | 1,766    | 21,596,346         | 563            | 13,500,914         | 234               | 17,890,294         | 2,563             | 37,613,810    | 52,987,554         | -   | -            |
| 1932.....                 | 2,038    | 23,666,178         | 703            | 22,708,049         | 197               | 10,256,427         | 2,938             | 37,303,623    | 56,630,654         | -   | -            |
| 1933.....                 | 1,599    | 14,970,460         | 544            | 10,785,547         | 201               | 3,494,834          | 2,344             | 20,268,923    | 29,250,841         | -   | -            |
| 1934.....                 | 1,083    | 10,598,089         | 389            | 7,038,589          | 155               | 3,091,336          | 1,637             | 12,979,753    | 20,728,014         | -   | -            |
| Prince Edward Island..... | 13       | 49,057             | 1              | 3,570              | 1                 | 32,000             | 15                | 10,020        | 84,627             | -   | -            |
| Nova Scotia.....          | 45       | 271,418            | 10             | 104,946            | 4                 | 162,816            | 59                | 167,736       | 590,180            | -   | -            |
| New Brunswick.....        | 28       | 174,941            | 8              | 74,228             | 1                 | 14,000             | 37                | 187,902       | 263,169            | -   | -            |
| Quebec.....               | 408      | 6,340,545          | 170            | 2,857,532          | 58                | 938,715            | 636               | 6,387,632     | 10,136,792         | -   | -            |
| Ontario.....              | 354      | 1,948,797          | 149            | 3,099,285          | 68                | 1,533,211          | 571               | 4,181,678     | 6,481,293          | -   | -            |
| Manitoba.....             | 107      | 1,776,094          | 23             | 149,173            | 10                | 178,609            | 140               | 815,903       | 1,103,876          | -   | -            |
| Saskatchewan.....         | 34       | 272,576            | 3              | 37,623             | 2                 | 52,173             | 39                | 308,913       | 362,272            | -   | -            |
| Alberta.....              | 47       | 303,751            | 5              | 111,517            | 5                 | 17,229             | 57                | 336,782       | 432,497            | -   | -            |
| British Columbia.....     | 47       | 460,910            | 20             | 600,815            | 6                 | 162,583            | 73                | 583,187       | 1,224,508          | -   | -            |
| Totals.....               | 1,083    | 10,598,089         | 389            | 7,038,589          | 155               | 3,091,336          | 1,637             | 12,979,753    | 20,728,014         | -   | -            |

<sup>1</sup> Canada only.

**Assignments under the Bankruptcy and Winding Up Acts.**—Under the Bankruptcy and Winding Up Acts (R.S.C., 1927, cc. 11 and 213) certain documents relating to assignments have, since 1920, been forwarded to the Dominion Statistician for statistical analysis. Table 4 gives the resulting figures of failures, by provinces, in 1922 and subsequent years, while Table 5 classifies them by branches of business. Table 6 gives the assets and liabilities of the assignors. A detailed analysis of the 1933 and 1934 failures, by provinces and branches of business, is made in Tables 7 and 7A.

**4.—Commercial Failures in Canada, by Provinces, calendar years 1922-34.**

| Year      | P.E.I. | N.S. | N.B. | Que.  | Ont.  | Man. | Sask. | Alta. | B.C. | Total. |
|-----------|--------|------|------|-------|-------|------|-------|-------|------|--------|
| 1922..... | 15     | 121  | 131  | 1,589 | 1,058 | 284  | 272   | 299   | 156  | 3,925  |
| 1923..... | 16     | 155  | 67   | 1,181 | 970   | 258  | 280   | 323   | 158  | 3,408  |
| 1924..... | 3      | 69   | 67   | 907   | 835   | 100  | 131   | 150   | 57   | 2,319  |
| 1925..... | 4      | 71   | 67   | 758   | 721   | 85   | 77    | 139   | 74   | 1,996  |
| 1926..... | 4      | 63   | 74   | 654   | 655   | 84   | 68    | 113   | 58   | 1,773  |
| 1927..... | 4      | 66   | 74   | 658   | 681   | 97   | 54    | 135   | 72   | 1,841  |
| 1928..... | 4      | 90   | 56   | 767   | 758   | 103  | 63    | 126   | 70   | 2,037  |
| 1929..... | 1      | 71   | 61   | 927   | 762   | 91   | 84    | 101   | 69   | 2,167  |
| 1930..... | 3      | 61   | 45   | 1,011 | 776   | 113  | 146   | 152   | 95   | 2,402  |
| 1931..... | 7      | 51   | 74   | 795   | 793   | 109  | 152   | 131   | 104  | 2,216  |
| 1932..... | 9      | 62   | 80   | 968   | 889   | 86   | 91    | 131   | 104  | 2,420  |
| 1933..... | 10     | 55   | 42   | 935   | 730   | 67   | 59    | 88    | 58   | 2,044  |
| 1934..... | 8      | 42   | 38   | 779   | 474   | 56   | 36    | 42    | 57   | 1,532  |

**5.—Commercial Failures in Canada, by Branches of Business, calendar years 1924-34.**

| Year.     | Trade. | Manu-<br>fac-<br>tures. | Agri-<br>culture. | Log-<br>ging<br>and<br>Fishing. | Mining. | Con-<br>struc-<br>tion. | Trans-<br>port-<br>ation<br>and<br>Public<br>Utili-<br>ties. | Fi-<br>nance. | Service | Not<br>Classi-<br>fied. | Total. |
|-----------|--------|-------------------------|-------------------|---------------------------------|---------|-------------------------|--------------------------------------------------------------|---------------|---------|-------------------------|--------|
| 1924..... | 1,317  | 329                     | 204               | 14                              | 22      | 44                      | 36                                                           | 8             | 129     | 216                     | 2,319  |
| 1925..... | 1,026  | 403                     | 158               | 14                              | 15      | 50                      | 21                                                           | 5             | 220     | 84                      | 1,996  |
| 1926..... | 805    | 390                     | 135               | 27                              | 20      | 52                      | 34                                                           | 1             | 225     | 84                      | 1,773  |
| 1927..... | 818    | 430                     | 116               | 30                              | 26      | 63                      | 36                                                           | -             | 243     | 79                      | 1,841  |
| 1928..... | 884    | 505                     | 108               | 31                              | 23      | 70                      | 45                                                           | 5             | 263     | 103                     | 2,037  |
| 1929..... | 1,100  | 443                     | 125               | 4                               | 11      | 61                      | 21                                                           | 5             | 239     | 158                     | 2,167  |
| 1930..... | 1,204  | 488                     | 115               | 12                              | 9       | 55                      | 48                                                           | 29            | 283     | 159                     | 2,402  |
| 1931..... | 1,102  | 464                     | 125               | 5                               | 7       | 61                      | 42                                                           | 21            | 255     | 134                     | 2,216  |
| 1932..... | 1,171  | 468                     | 190               | 9                               | 6       | 83                      | 43                                                           | 7             | 290     | 153                     | 2,420  |
| 1933..... | 1,089  | 357                     | 92                | 1                               | 5       | 57                      | 26                                                           | 12            | 246     | 159                     | 2,044  |
| 1934..... | 799    | 217                     | 82                | 3                               | 2       | 59                      | 20                                                           | 16            | 217     | 117                     | 1,532  |

**6.—Estimated Assets and Liabilities of Commercial Failures in Canada, calendar years 1922-34.**

| Year.     | Estimated<br>Grand Total<br>Assets. | Estimated<br>Grand Total<br>Liabilities. |
|-----------|-------------------------------------|------------------------------------------|
| 1922..... | \$ 52,336,488                       | \$ 63,692,219                            |
| 1923..... | 62,127,489                          | 61,617,527                               |
| 1924..... | 43,194,035                          | 48,105,397                               |
| 1925..... | 26,968,371                          | 32,153,697                               |
| 1926..... | 24,676,661                          | 32,291,125                               |
| 1927..... | 23,197,894                          | 30,634,460                               |
| 1928..... | 26,583,462                          | 32,455,437                               |
| 1929..... | 32,064,027                          | 38,747,638                               |
| 1930..... | 44,048,171                          | 48,164,065                               |
| 1931..... | 46,839,179                          | 52,552,900                               |
| 1932..... | 40,604,208                          | 51,629,303                               |
| 1933..... | 27,033,240                          | 32,953,858                               |
| 1934..... | 19,257,469                          | 23,598,260                               |



7.—Commercial Failures in Canada, by Provinces and Branches of Business, calendar year 1933, with Totals for 1932.

| Branch of Business.                      | P.E.I.<br>and<br>N.S. | N.B.      | Que.       | Ont.       | Man.      | Sask.     | Alta.     | B.C.      | Total<br>for<br>1933. | Total<br>for<br>1932. |
|------------------------------------------|-----------------------|-----------|------------|------------|-----------|-----------|-----------|-----------|-----------------------|-----------------------|
| <b>Trade—</b>                            |                       |           |            |            |           |           |           |           |                       |                       |
| General stores.....                      | 10                    | 5         | 74         | 41         | 13        | 16        | 11        | 1         | 171                   | 165                   |
| Grocery.....                             | 4                     | 5         | 56         | 37         | 3         | 4         | 5         | 5         | 119                   | 97                    |
| Confectionery.....                       | 3                     | —         | 28         | 19         | —         | 1         | 1         | —         | 52                    | 67                    |
| Drink and tobacco.....                   | —                     | 2         | 9          | 4          | —         | —         | —         | —         | 15                    | 22                    |
| Fish and meat.....                       | 3                     | —         | 34         | 21         | 1         | 2         | 2         | 4         | 67                    | 73                    |
| Boots and shoes.....                     | 2                     | 3         | 20         | 17         | 1         | 1         | 2         | 1         | 47                    | 62                    |
| Dry goods.....                           | —                     | 3         | 41         | 23         | —         | 1         | 3         | 3         | 74                    | 82                    |
| Clothing.....                            | 8                     | 7         | 49         | 40         | 8         | 3         | 4         | 2         | 121                   | 130                   |
| Furniture.....                           | 1                     | 1         | 8          | 9          | —         | 1         | 1         | 2         | 23                    | 37                    |
| Books and stationery.....                | 5                     | —         | 12         | 13         | 2         | —         | —         | —         | 32                    | 33                    |
| Automobile.....                          | 1                     | 2         | 7          | 9          | 1         | —         | 5         | 2         | 27                    | 55                    |
| Hardware.....                            | 2                     | 1         | 18         | 21         | 3         | 4         | 3         | 1         | 53                    | 40                    |
| Electric apparatus.....                  | —                     | —         | 8          | 13         | 2         | 1         | —         | 1         | 25                    | 41                    |
| Jewellery.....                           | 1                     | 1         | 16         | 7          | 1         | 1         | 1         | 2         | 30                    | 39                    |
| Coal and wood.....                       | —                     | —         | 22         | 11         | —         | —         | —         | 1         | 34                    | 34                    |
| Drugs and chemicals.....                 | 1                     | 3         | 22         | 16         | 2         | 1         | 1         | 1         | 47                    | 37                    |
| Miscellaneous.....                       | 7                     | 3         | 72         | 52         | 4         | 3         | 6         | 5         | 152                   | 158                   |
| Totals, Trade.....                       | 48                    | 36        | 496        | 353        | 41        | 39        | 45        | 31        | 1,089                 | 1,172                 |
| <b>Manufacture—</b>                      |                       |           |            |            |           |           |           |           |                       |                       |
| Vegetable foods.....                     | 1                     | —         | 30         | 23         | 2         | 1         | 3         | 1         | 61                    | 77                    |
| Drink and tobacco.....                   | —                     | —         | 1          | —          | —         | 1         | —         | —         | 2                     | 1                     |
| Animal foods.....                        | 1                     | —         | 5          | 4          | —         | —         | 1         | 2         | 13                    | 23                    |
| Fur and leather.....                     | —                     | —         | 21         | 16         | 3         | 1         | 1         | 1         | 43                    | 50                    |
| Pulp and paper.....                      | —                     | —         | —          | —          | —         | —         | —         | —         | —                     | 1                     |
| Textiles.....                            | —                     | —         | 8          | 4          | —         | —         | 1         | —         | 13                    | 30                    |
| Clothing.....                            | 2                     | —         | 34         | 30         | 1         | —         | —         | —         | 67                    | 79                    |
| Lumber and manufactures.....             | —                     | —         | 19         | 17         | 1         | —         | —         | 1         | 38                    | 45                    |
| Iron and steel.....                      | —                     | —         | 6          | 4          | —         | —         | —         | 1         | 11                    | 12                    |
| Non-ferrous metals.....                  | —                     | —         | 5          | 4          | 2         | —         | —         | 1         | 12                    | 25                    |
| Non-metallic minerals.....               | 1                     | —         | 8          | 7          | —         | —         | —         | —         | 16                    | 20                    |
| Drugs and chemicals.....                 | —                     | —         | 2          | 2          | —         | 1         | —         | —         | 5                     | 3                     |
| Miscellaneous.....                       | —                     | —         | 36         | 32         | 1         | 1         | 2         | 4         | 76                    | 102                   |
| Totals, Manufacture.....                 | 5                     | —         | 175        | 143        | 10        | 5         | 8         | 11        | 357                   | 468                   |
| <b>Service—</b>                          |                       |           |            |            |           |           |           |           |                       |                       |
| Garages.....                             | —                     | 1         | 27         | 17         | 1         | 2         | 5         | 1         | 54                    | 66                    |
| Other custom and repairs.....            | —                     | —         | 29         | 16         | —         | —         | 1         | —         | 46                    | 68                    |
| Personal service.....                    | 4                     | 2         | 52         | 37         | 4         | 5         | 8         | 5         | 117                   | 106                   |
| Professional service.....                | —                     | —         | 12         | 4          | —         | —         | —         | 1         | 17                    | 13                    |
| Recreational service.....                | —                     | —         | 3          | 2          | —         | —         | —         | —         | 5                     | 15                    |
| Business service.....                    | —                     | —         | 4          | 2          | —         | —         | —         | 1         | 7                     | 22                    |
| Totals, Service.....                     | 4                     | 3         | 127        | 78         | 5         | 7         | 14        | 8         | 246                   | 290                   |
| <b>Other—</b>                            |                       |           |            |            |           |           |           |           |                       |                       |
| Agriculture.....                         | 2                     | 1         | 1          | 65         | 6         | 5         | 12        | —         | 92                    | 189                   |
| Mining.....                              | —                     | —         | —          | 4          | —         | —         | —         | 1         | 5                     | 6                     |
| Logging, fishing and trapping.....       | 1                     | —         | —          | —          | —         | —         | —         | —         | 1                     | 8                     |
| Construction.....                        | —                     | —         | 35         | 20         | —         | —         | 2         | —         | 57                    | 86                    |
| Transportation and public utilities..... | —                     | —         | 12         | 12         | —         | —         | —         | 2         | 26                    | 43                    |
| Finance.....                             | 1                     | —         | 6          | 1          | —         | —         | 2         | 2         | 12                    | 8                     |
| Totals, Other.....                       | 4                     | 1         | 54         | 102        | 6         | 5         | 16        | 5         | 193                   | 340                   |
| Not classified.....                      | 4                     | 2         | 83         | 54         | 5         | 3         | 5         | 3         | 159                   | 150                   |
| <b>Grand Totals.....</b>                 | <b>65</b>             | <b>42</b> | <b>935</b> | <b>730</b> | <b>67</b> | <b>59</b> | <b>88</b> | <b>58</b> | <b>2,044</b>          | <b>2,420</b>          |

**7A.—Commercial Failures in Canada, by Provinces and Branches of Business,  
calendar year 1934, with Totals for 1933.**

| Branch of Business.                      | P.E.I.<br>and<br>N.S. | N.B.      | Que.       | Ont.       | Man.      | Sask.     | Alta.     | B.C.      | Total<br>for<br>1934. | Total<br>for<br>1933. |
|------------------------------------------|-----------------------|-----------|------------|------------|-----------|-----------|-----------|-----------|-----------------------|-----------------------|
| <b>Trade—</b>                            |                       |           |            |            |           |           |           |           |                       |                       |
| General stores.....                      | 8                     | 5         | 65         | 34         | 10        | 8         | 6         | 5         | 142                   | 171                   |
| Grocery.....                             | 8                     | 5         | 62         | 31         | 2         | 2         | 2         | 5         | 117                   | 119                   |
| Confectionery.....                       | 2                     | 1         | 22         | 11         | —         | —         | 2         | 2         | 40                    | 52                    |
| Drink and tobacco.....                   | —                     | —         | 17         | 2          | —         | 1         | —         | —         | 20                    | 15                    |
| Fish and meat.....                       | 1                     | —         | 38         | 15         | 1         | —         | —         | —         | 56                    | 67                    |
| Boots and shoes.....                     | —                     | —         | 13         | 12         | —         | 2         | 2         | 2         | 31                    | 47                    |
| Dry goods.....                           | 1                     | —         | 28         | 11         | 1         | —         | —         | —         | 41                    | 74                    |
| Clothing.....                            | 3                     | 3         | 38         | 21         | 3         | 2         | 1         | 2         | 73                    | 121                   |
| Furniture.....                           | —                     | 1         | 5          | 1          | —         | 1         | —         | 1         | 9                     | 23                    |
| Books and stationery.....                | —                     | —         | 6          | 8          | 1         | —         | 1         | —         | 16                    | 32                    |
| Automobile.....                          | —                     | —         | 2          | 2          | —         | —         | —         | 1         | 5                     | 27                    |
| Hardware.....                            | 1                     | 1         | 17         | 15         | 2         | —         | 3         | —         | 39                    | 53                    |
| Electric apparatus.....                  | —                     | —         | 2          | —          | —         | —         | —         | —         | 2                     | 25                    |
| Jewellery.....                           | —                     | —         | 2          | 6          | 1         | —         | —         | —         | 9                     | 30                    |
| Coal and wood.....                       | —                     | —         | 18         | 7          | 1         | 2         | —         | 1         | 29                    | 34                    |
| Drugs and chemicals.....                 | —                     | 1         | 11         | 11         | 3         | 5         | —         | 2         | 33                    | 47                    |
| Miscellaneous.....                       | 6                     | 1         | 65         | 44         | 7         | 2         | 6         | 6         | 137                   | 152                   |
| <b>Totals, Trade.....</b>                | <b>30</b>             | <b>18</b> | <b>411</b> | <b>231</b> | <b>32</b> | <b>27</b> | <b>23</b> | <b>27</b> | <b>799</b>            | <b>1,089</b>          |
| <b>Manufacture—</b>                      |                       |           |            |            |           |           |           |           |                       |                       |
| Vegetable foods.....                     | 2                     | 2         | 30         | 19         | 4         | 1         | 1         | 1         | 60                    | 61                    |
| Drink and tobacco.....                   | —                     | —         | —          | —          | —         | —         | —         | —         | —                     | 2                     |
| Animal foods.....                        | 1                     | —         | 2          | —          | —         | —         | —         | 1         | 4                     | 13                    |
| Fur and leather.....                     | —                     | —         | 15         | 7          | —         | —         | 1         | —         | 23                    | 43                    |
| Pulp and paper.....                      | —                     | 1         | 3          | 4          | —         | —         | —         | 1         | 9                     | —                     |
| Textiles.....                            | —                     | —         | 2          | 2          | —         | —         | —         | —         | 4                     | 13                    |
| Clothing.....                            | —                     | —         | 21         | 7          | —         | —         | —         | —         | 28                    | 67                    |
| Lumber and manufactures.....             | 1                     | —         | 7          | 11         | —         | 1         | —         | —         | 20                    | 38                    |
| Iron and steel.....                      | —                     | —         | 2          | 5          | 2         | —         | —         | —         | 9                     | 11                    |
| Non-ferrous metals.....                  | —                     | —         | 1          | 3          | —         | —         | —         | 1         | 5                     | 12                    |
| Non-metallic minerals.....               | —                     | 1         | 3          | 1          | —         | —         | —         | —         | 5                     | 16                    |
| Drugs and chemicals.....                 | —                     | 1         | —          | 2          | —         | —         | —         | —         | 3                     | 5                     |
| Miscellaneous.....                       | —                     | 2         | 26         | 15         | 1         | —         | —         | 3         | 47                    | 76                    |
| <b>Totals, Manufacture.....</b>          | <b>4</b>              | <b>7</b>  | <b>112</b> | <b>76</b>  | <b>7</b>  | <b>2</b>  | <b>2</b>  | <b>7</b>  | <b>217</b>            | <b>357</b>            |
| <b>Service—</b>                          |                       |           |            |            |           |           |           |           |                       |                       |
| Garages.....                             | 1                     | —         | 22         | 10         | —         | —         | —         | 4         | 37                    | 54                    |
| Other custom and repairs.....            | 1                     | 2         | 25         | 14         | 2         | —         | —         | 1         | 45                    | 46                    |
| Personal service.....                    | 4                     | 2         | 42         | 19         | 2         | —         | 1         | 3         | 73                    | 117 <sup>1</sup>      |
| Restaurants.....                         | —                     | —         | 15         | 5          | 1         | 2         | —         | 1         | 24                    | 2                     |
| Professional service.....                | 1                     | —         | 23         | 4          | 1         | —         | —         | 1         | 30                    | 17                    |
| Recreational service.....                | —                     | —         | 4          | —          | —         | —         | —         | —         | 4                     | 5                     |
| Business service.....                    | 1                     | —         | 1          | 2          | —         | —         | —         | —         | 4                     | 7                     |
| <b>Totals, Service.....</b>              | <b>8</b>              | <b>4</b>  | <b>132</b> | <b>54</b>  | <b>6</b>  | <b>2</b>  | <b>1</b>  | <b>10</b> | <b>217</b>            | <b>246</b>            |
| <b>Other—</b>                            |                       |           |            |            |           |           |           |           |                       |                       |
| Agriculture.....                         | 1                     | 6         | 1          | 52         | 8         | 3         | 11        | —         | 82                    | 92                    |
| Mining.....                              | —                     | —         | —          | 1          | —         | —         | 1         | —         | 2                     | 5                     |
| Logging, fishing and trapping.....       | 1                     | —         | 1          | —          | —         | —         | —         | —         | 3                     | 1                     |
| Construction.....                        | 2                     | —         | 41         | 14         | —         | 1         | —         | 1         | 59                    | 57                    |
| Transportation and public utilities..... | —                     | —         | 11         | 5          | 1         | —         | 2         | 1         | 20                    | 26                    |
| Finance.....                             | 1                     | 1         | 7          | 5          | —         | —         | —         | 2         | 16                    | 12                    |
| <b>Totals, Other.....</b>                | <b>5</b>              | <b>7</b>  | <b>61</b>  | <b>77</b>  | <b>9</b>  | <b>4</b>  | <b>14</b> | <b>5</b>  | <b>182</b>            | <b>193</b>            |
| <b>Not Classified.....</b>               | <b>3</b>              | <b>2</b>  | <b>63</b>  | <b>36</b>  | <b>2</b>  | <b>1</b>  | <b>2</b>  | <b>8</b>  | <b>117</b>            | <b>159</b>            |
| <b>Grand Totals.....</b>                 | <b>50</b>             | <b>38</b> | <b>779</b> | <b>474</b> | <b>56</b> | <b>36</b> | <b>42</b> | <b>57</b> | <b>1,532</b>          | <b>2,044</b>          |

<sup>1</sup> This figure for 1933 included restaurants, now separately classified in the next line.

<sup>2</sup> Included with "personal service" in 1933.

**Administration of Bankrupt Estates.**—The administration of bankrupt estates is now carried on by the Superintendent of Bankruptcy, appointed in 1932, with the object of conserving as far as possible the assets of bankrupt estates for the benefit of the creditors. His first report, covering the period from Dec. 1, 1932, to Dec. 31, 1933, indicates that, during the calendar year 1933, 850 bankrupt estates were closed up under the supervision of his office. The following figures for these estates show how wide is the gulf between the optimistic value of assets by debtors at the time of assignment as compared with the actual realization: total liabilities estimated at \$8,629,392; total assets valued (by debtors) at \$9,207,503; total actually realized \$1,880,015. The amount realized was distributed as follows: payments to creditors \$1,449,392; payments to debtors in lieu of exemptions \$6,790; administrative costs \$423,833. In 1934 the estimated assets of the 1,620 estates closed were \$14,887,298, the total receipts \$3,800,996 and the cost of administration \$880,803.

**8.—Totals of Assets, Liabilities, Assets Realized and Cost of Administration in Bankrupt Estates Closed in the calendar years, 1933 and 1934.**

(From the Annual Report of the Superintendent of Bankruptcy.)

| Province or City.          | Estates.     | Assets as Estimated by Debtor. | Liabilities as Estimated by Debtor. | Gross Receipts.  | Net Receipts from Operations. | Total Realization. | Cost of Administration. |
|----------------------------|--------------|--------------------------------|-------------------------------------|------------------|-------------------------------|--------------------|-------------------------|
| 1933:                      | No.          | \$                             | \$                                  | \$               | \$                            | \$                 | \$                      |
| Prince Edward Island.....  | 4            | 14,751                         | 22,462                              | 3,858            | —                             | 3,858              | 1,637                   |
| Nova Scotia.....           | 27           | 199,322                        | 260,718                             | 35,060           | 547                           | 35,607             | 9,905                   |
| New Brunswick.....         | 20           | 103,725                        | 158,353                             | 36,540           | 296                           | 36,835             | 10,916                  |
| Quebec <sup>1</sup> .....  | 329          | 2,652,112                      | 3,015,846                           | 640,032          | 6,536                         | 646,568            | 154,043                 |
| Montreal.....              | 228          | 2,035,360                      | 2,751,884                           | 518,994          | 53,668                        | 572,661            | 123,785                 |
| Ontario <sup>1</sup> ..... | 172          | 897,826                        | 1,419,667                           | 308,915          | 5,554                         | 314,469            | 73,032                  |
| Toronto.....               | 41           | 3,020,466 <sup>2</sup>         | 668,263                             | 162,779          | 15,976                        | 178,755            | 35,204                  |
| Manitoba.....              | 8            | 44,211                         | 76,120                              | 18,674           | —                             | 18,674             | 3,432                   |
| Saskatchewan.....          | 8            | 41,121                         | 46,008                              | 9,766            | 363                           | 10,129             | 3,569                   |
| Alberta.....               | 3            | 30,451                         | 29,115                              | 4,049            | —                             | 4,049              | 1,139                   |
| British Columbia.....      | 10           | 168,162                        | 180,956                             | 58,410           | —                             | 58,410             | 7,171                   |
| <b>Totals.....</b>         | <b>850</b>   | <b>9,207,503</b>               | <b>8,629,392</b>                    | <b>1,797,076</b> | <b>82,939</b>                 | <b>1,880,015</b>   | <b>423,833</b>          |
| <b>1934.</b>               |              |                                |                                     |                  |                               |                    |                         |
| Prince Edward Island.....  | 10           | 38,006                         | 68,894                              | 11,578           | —                             | 11,578             | 4,148                   |
| Nova Scotia.....           | 49           | 381,566                        | 751,220                             | 95,727           | 4,020                         | 99,748             | 22,479                  |
| New Brunswick.....         | 38           | 220,998                        | 431,439                             | 84,156           | 8,362                         | 92,517             | 26,012                  |
| Quebec <sup>1</sup> .....  | 473          | 4,436,564                      | 5,128,659                           | 1,109,128        | 16,740                        | 1,125,868          | 263,263                 |
| Montreal.....              | 475          | 3,697,273                      | 5,894,648                           | 1,048,956        | 5,597                         | 1,054,553          | 253,858                 |
| Ontario <sup>1</sup> ..... | 327          | 2,219,095                      | 2,704,883                           | 529,293          | 37,859                        | 567,152            | 143,681                 |
| Toronto.....               | 84           | 1,918,182                      | 2,954,159                           | 441,058          | 3,158                         | 444,196            | 77,281                  |
| Manitoba.....              | 54           | 1,283,639                      | 1,223,746                           | 231,094          | 2,204                         | 233,298            | 47,673                  |
| Saskatchewan.....          | 33           | 183,606                        | 312,478                             | 42,850           | 670                           | 43,420             | 11,689                  |
| Alberta.....               | 50           | 402,185                        | 586,211                             | 88,791           | 5,893                         | 94,684             | 19,435                  |
| British Columbia.....      | 27           | 106,184                        | 286,546                             | 33,823           | 159                           | 33,982             | 11,284                  |
| <b>Totals.....</b>         | <b>1,620</b> | <b>14,887,298</b>              | <b>20,342,883</b>                   | <b>3,716,434</b> | <b>84,562</b>                 | <b>3,800,996</b>   | <b>880,803</b>          |

<sup>1</sup>Exclusive of city shown separately.  
\$2,899,086.

<sup>2</sup>Including one mining company with assets stated as

## CHAPTER XXV.—EDUCATION.

### Section 1.—Schools, Colleges and Universities.\*

Throughout the Dominion of Canada public education, except for instruction of the native Indian population, is a matter of provincial concern. Before Confederation, the maritime colonies were separated from Ontario by French-speaking Quebec, and in each colony an educational system specially adapted to the local conditions had come into existence. When Confederation was under consideration, the protection of existing vested rights was the predominant consideration. As a result, Section 93 of the British North America Act, which embodies the Canadian constitution in so far as that constitution is a written one, provides that in and for each province the Legislature may exclusively make laws in respect of education, except that "nothing in any such law shall prejudicially affect any right or privilege with respect to denominational schools which any class of persons have by law in the province at the union".

Inasmuch as the administration of public education is one of the chief functions of Provincial Governments, in each of the provinces except Quebec there is a Department of Education administered either by a member of the Provincial Executive Council or Cabinet or by the Executive Council or Cabinet as a whole. In practice, however, the routine administration is in the hands of the permanent officials of the Department of Education, who are members of the permanent civil service. In Quebec the Superintendent of Education, appointed by the Government, is *ex officio* President of the Council of Public Instruction. The link between the Department of Public Instruction and the Government is the Provincial Secretary; there are also two deputy heads, called the French and English Secretaries of the Department.

Since the Departments of Education are permanent authorities, controlled as to details of administration by permanent officials, educational policy is relatively permanent; further, the control of the Governments over education throughout the provinces is relatively stronger than in the United States. A capable Deputy Minister or Superintendent of Education impresses his personality and his views upon the whole system of his province, especially as in practice he controls the payment of government grants, which constitute, on the average, about 14 p.c. of the total expenditure applied to educational purposes.

The Department of Education in each province naturally has its headquarters at the capital of the province. Its local representatives are the school inspectors, who are appointed and paid by the Provincial Governments, except for the "public" and "separate" schools in Ontario, where they are appointed (in all but unorganized districts) by the county or city municipality from a list approved by the province.

**Education in Quebec.**—In Quebec there are two distinct systems of education—the Roman Catholic and the Protestant systems—in each of which the teaching of religion takes a prominent position. In the latter, which is under the control

\*Revised by M. C. MacLean, M.A., F.S.S., Chief, Education Statistics Branch, Dominion Bureau of Statistics. This Branch is concerned with compiling and publishing comparable data relating to educational institutions throughout Canada, and to this end co-operates with the Provincial Departments of Education. A list of the publications of this Branch will be found in Chapter XXIX, Section 1, under "Education".



of the Protestant Committee of the Council of Public Instruction, with an English Secretary, the curriculum and the general system of education are similar to those in the other provinces, except that the highest grade is Grade XI, from which students are matriculated to McGill University and Bishop's University, the two Protestant English-speaking universities of the province.

In the Roman Catholic schools, which are mainly French-speaking, as the Protestant schools are English-speaking, the administration is in the hands of the Catholic Committee of the Council of Public Instruction, with a French Secretary. General elementary and continuation or "complementary" training is given by means of a curriculum, extending over one preparatory "year", six "years" of an elementary course, and two "years" of a complementary course. Some of these "years" require more than a year to complete, the completion of the "sixth year" corresponding in a general way to the end of the elementary grades, or high school entrance, in other provinces. Beginning in the school year 1929-30, a new superior course of three "years" beyond the complementary course was provided for. These are called the ninth, tenth and eleventh "years". Over 4,400 students were enrolled in the second year of introduction of the change.

**Summary Statistics of Education.**—Expenditure for schools, colleges and universities dropped from the peak of \$178,700,000 in 1931 to \$163,945,000 in 1932. The corresponding figures for the school year ended in 1933 shows a still greater drop, to \$146,922,000. The decline continued in 1934. Though its exact extent is not yet known, available data indicate that the total for 1934 was probably not above \$130,000,000. Up to 1933 the percentage drop was much greater in Ontario and the western provinces than in Quebec and the Maritimes. Capital expenditures have generally been brought to a very low level, and teachers' salaries, in the provinces for which 1934 records have been received, show a three-year decrease of about one-third. Reductions have been much more severe in rural schools than in towns and cities. A shortage of funds has led some communities to shorten the teaching year by a few weeks, but very few schools have been continuously closed for any considerable time. A concise numerical summary of institutions, pupils, teachers and costs for the school year ended in 1933 follows:—

GENERAL SUMMARY STATEMENT OF EDUCATIONAL INSTITUTIONS, STAFFS  
AND EXPENDITURES, 1933.

| Type of Institution.                        | Institutions.       | Pupils.   | Teachers.        | Expenditure.             |
|---------------------------------------------|---------------------|-----------|------------------|--------------------------|
|                                             | No.                 | No.       | No.              | \$                       |
| (1) Provincially-Controlled Schools—        |                     |           |                  |                          |
| (a) Ordinary and technical day schools..... | 30,800 <sup>1</sup> | 2,232,622 | 69,751           | 121,464,641              |
| (b) Evening schools.....                    | 225                 | 66,501    | 1,566            |                          |
| (c) Correspondence courses.....             | 5                   | 8,926     | 150              |                          |
| (d) Special schools.....                    | 16                  | 4,811     | 500 <sup>1</sup> |                          |
| (e) Normal schools.....                     | 56                  | 8,225     | 634              |                          |
| (2) Privately-Controlled Schools—           |                     |           |                  |                          |
| (a) Ordinary day.....                       | 860                 | 87,929    | 5,430            | 5,193,000<br>(estimated) |
| (b) Business training.....                  | 175                 | 14,862    | 500 <sup>1</sup> |                          |
| (3) Dominion Indian Schools.....            | 349                 | 17,425    | 601              | 1,712,223                |
| (4) Universities or Colleges—               |                     |           |                  |                          |
| (a) Preparatory.....                        | 60 <sup>2</sup>     | 21,701    | 950              | 18,551,998               |
| (b) University grade.....                   | 152                 | 41,175    | 4,800            |                          |
| (c) Others.....                             | 10 <sup>2</sup>     | 25,879    |                  |                          |
| Totals.....                                 | 32,708              | 2,530,056 | 84,381           | 146,921,862              |

<sup>1</sup> Approximate.    <sup>2</sup> Including only affiliated schools that are not enumerated in (b).

Table 1 gives a more detailed summary of all institutions by provinces.

## 1.—Summary Statistics of Educational Institutions in

## A.—ENROL

| No. | Type of Institution.                                | P.E.I.        | N.S.               | N.B.           |
|-----|-----------------------------------------------------|---------------|--------------------|----------------|
| 1   | Provincially-Controlled Schools—                    |               |                    |                |
|     | (a) Ordinary and technical day schools.....No.      | 18,247        | 117,238            | 90,888         |
|     | (b) Evening schools.....“                           | —             | 2,236              | 812            |
|     | (c) Correspondence courses.....“                    | —             | 995                | —              |
|     | (d) Special schools <sup>3</sup> .....“             | —             | 404                | —              |
|     | (e) Normal schools.....“                            | with 4 (a)    | 398                | 347            |
| 2   | Privately-Controlled Schools—                       |               |                    |                |
|     | (a) Ordinary day schools.....No.                    | 511           | 2,655              | 3,544          |
|     | (b) Business training schools.....“                 | 159           | 425                | 496            |
| 3   | Dominion Indian schools.....“                       | 33            | 447                | 314            |
| 4   | Universities and Colleges—                          |               |                    |                |
|     | (a) Preparatory courses.....No.                     | 557           | 238                | 389            |
|     | (b) University standard.....“                       | 152           | 2,630              | 1,291          |
|     | (c) Other courses at university <sup>4</sup> .....“ | 8             | 6,243 <sup>4</sup> | 36             |
|     | <b>Grand Totals.....No.</b>                         | <b>19,667</b> | <b>133,909</b>     | <b>98,117</b>  |
|     | <b>Population of 1933<sup>5</sup>.....“</b>         | <b>89,000</b> | <b>522,000</b>     | <b>420,000</b> |

## B.—EXPEND

|   |                                                 |                |                  |                  |
|---|-------------------------------------------------|----------------|------------------|------------------|
| 5 | Provincially-Controlled Schools—                |                |                  |                  |
|   | (a) Expended by Provincial Governments.....\$   | 344,109        | 1,092,520        | 517,383          |
|   | (b) Expended by Ratepayers, etc.....\$          | 182,812        | 3,197,892        | 2,469,677        |
| 6 | Privately-controlled schools (estimated).....\$ | 19,000         | 114,000          | 137,000          |
| 7 | Indian schools.....\$                           | 1,235          | 37,007           | 17,074           |
| 8 | Universities and colleges.....\$                | 133,630        | 1,102,903        | 365,319          |
|   | <b>Totals.....\$</b>                            | <b>680,786</b> | <b>5,544,322</b> | <b>3,506,453</b> |

## C.—FURTHER INFORMATION ON ORDINARY DAY SCHO

|    |                                                         |        |         |        |
|----|---------------------------------------------------------|--------|---------|--------|
| 9  | Enrolment—                                              |        |         |        |
|    | Boys.....No.                                            | 9,177  | 58,507  | 44,674 |
| 10 | Girls.....“                                             | 9,070  | 58,731  | 44,607 |
| 11 | In elementary grades.....“                              | 15,525 | 100,537 | —      |
| 12 | In secondary grades.....“                               | 2,421  | 16,701  | —      |
| 13 | In urban schools.....“                                  | 7,395  | 55,062  | 50,344 |
| 14 | In rural schools.....“                                  | 10,852 | 62,176  | 38,937 |
| 15 | Attendance—                                             |        |         |        |
|    | Averages of daily attendance.....No.                    | 13,810 | 93,866  | 70,876 |
| 16 | Averages (medians) of days per pupil.....“              | 164    | 168     | 175    |
| 17 | Averages of days schools open.....“                     | 200    | 196     | 188    |
| 18 | Percentages of enrolment in average attendance.....p.c. | 75.7   | 80.1    | 79.3   |
| 19 | Teachers, totals.....No.                                | 645    | 3,597   | 2,641  |
| 20 | Male.....“                                              | 166    | 416     | 330    |
| 21 | Female.....“                                            | 479    | 3,181   | 2,311  |
| 22 | Accommodation—                                          |        |         |        |
|    | Numbers of school districts.....No.                     | 477    | 1,761   | 1,421  |
| 23 | Numbers of school houses.....“                          | 477    | —       | —      |
| 24 | Numbers of class-rooms.....“                            | 645    | 3,260   | 2,455  |
| 25 | Numbers of pupils per class-room.....“                  | 28     | 36      | 36     |
| 26 | Numbers of rural schools.....“                          | 416    | 1,451   | 1,252  |

<sup>1</sup> Figures for 1 (a) and 1 (b) in Quebec are for 1931-32; for 1 (a) in Ont., except secondary schools, are for calendar year 1932; all others are for 1932-33.

<sup>2</sup> Includes 176 in Yukon in 1 (a) and, for Yukon and N.W.T., 411 in Item 3, 14,000 in population and \$45,466 in expenditures.

<sup>3</sup> Schools for the blind, deaf, or mentally defective. These are boarding schools and many of the pupils are from a province other than the one in which they are at school. This is true, too, of industrial or reform schools in some provinces, with enrolments exceeding 3,000, which should properly be included under this heading.

Canada, by Provinces, 1933, or Latest Year Reported.<sup>1</sup>

MENT.

| Que.                 | Ont.                 | Man.    | Sask.   | Alta.   | B.C.             | Total. <sup>2</sup>     | No. |
|----------------------|----------------------|---------|---------|---------|------------------|-------------------------|-----|
| 562,856 <sup>1</sup> | 781,332 <sup>1</sup> | 150,070 | 226,007 | 168,992 | 116,816          | 2,232,622 <sup>2</sup>  | 1   |
| 15,108 <sup>1</sup>  | 38,314               | 2,002   | 1,659   | 1,770   | 4,600            | 66,501                  |     |
| —                    | 1,800                | 1,555   | 1,765   | 1,286   | 1,525            | 8,926                   |     |
| 1,179                | 2,232                | 562     | 136     | 205     | 98               | 4,811                   |     |
| 2,537                | 2,687                | 481     | 715     | 677     | 393              | 8,225                   |     |
| 56,587               | 11,242               | 5,490   | 1,541   | 2,453   | 3,906            | 87,929                  | 2   |
| 2,849                | 4,946                | 2,239   | 810     | 1,421   | 1,517            | 14,862                  |     |
| 1,644                | 4,525                | 2,466   | 2,247   | 1,720   | 3,618            | 17,425 <sup>2</sup>     | 3   |
| 16,729               | 2,685                | 303     | 504     | 296     | —                | 21,701                  | 4   |
| 10,242               | 16,776               | 3,468   | 2,517   | 2,028   | 2,071            | 41,175                  |     |
| 5,262                | 11,372 <sup>4</sup>  | 900     | 830     | 398     | 830 <sup>4</sup> | 25,879                  |     |
| 674,993              | 877,911              | 169,536 | 238,731 | 181,246 | 135,359          | 2,530,056               |     |
| 2,970,000            | 3,524,000            | 722,000 | 951,000 | 757,000 | 712,000          | 10,681,000 <sup>2</sup> |     |

ITURES.

|            |            |           |            |            |            |                          |   |
|------------|------------|-----------|------------|------------|------------|--------------------------|---|
| 5,816,736  | 6,088,046  | 1,207,836 | 1,919,153  | 1,675,229  | 2,599,972  | 21,260,984               | 5 |
| 20,163,725 | 44,482,988 | 6,397,405 | 7,549,033  | 9,668,600  | 6,091,525  | 100,203,657              |   |
| 2,800,000  | 1,050,000  | 394,000   | 99,000     | 210,000    | 370,000    | 5,193,000                | 6 |
| 59,908     | 374,920    | 216,390   | 303,182    | 265,794    | 391,246    | 1,712,223                | 7 |
| 6,363,116  | 6,994,426  | 989,997   | 970,801    | 977,331    | 654,475    | 18,551,998               | 8 |
| 35,203,485 | 58,990,380 | 9,205,628 | 10,841,169 | 12,796,954 | 10,107,218 | 146,921,862 <sup>2</sup> |   |

OLS UNDER PROVINCIAL CONTROL [ITEM 1 (a) ABOVE].<sup>5</sup>

|                     |                     |         |         |         |         |           |    |
|---------------------|---------------------|---------|---------|---------|---------|-----------|----|
| 306,107             | 397,511             | 75,503  | 114,114 | 84,490  | 59,762  | 1,149,845 | 9  |
| 310,415             | 381,461             | 74,567  | 111,893 | 84,502  | 57,054  | 1,132,300 | 10 |
| —                   | 654,581             | 129,686 | 189,999 | 142,076 | 95,901  | —         | 11 |
| —                   | 124,391             | 20,384  | 35,104  | 26,916  | 20,915  | —         | 12 |
| —                   | 556,595             | 109,090 | 94,532  | 85,608  | 70,201  | —         | 13 |
| —                   | 222,377             | 40,980  | 130,571 | 83,384  | 46,615  | —         | 14 |
| 516,516             | 606,867             | 121,190 | 175,002 | 137,558 | 104,978 | 1,840,663 | 15 |
| —                   | —                   | 179     | 176     | 189     | —       | —         | 16 |
| —                   | —                   | —       | 190     | 193     | —       | —         | 17 |
| 83.8                | 77.9                | 80.7    | 77.4    | 81.3    | 89.8    | 80.6      | 18 |
| 22,345              | 21,869              | 4,406   | 8,276   | 6,050   | 3,912   | 73,241    | 19 |
| 4,122               | 4,821               | 955     | 2,409   | 1,710   | 1,218   | 16,147    | 20 |
| 18,223              | 16,548              | 3,451   | 5,867   | 4,340   | 2,694   | 57,094    | 21 |
| 7,839               | —                   | 2,238   | 5,010   | 3,708   | 821     | —         | 22 |
| 8,231               | 7,683               | 2,043   | —       | —       | 1,207   | —         | 23 |
| 19,700 <sup>6</sup> | 19,000 <sup>6</sup> | 4,290   | 6,891   | 5,796   | 3,670   | 65,707    | 24 |
| 31                  | 40                  | 35      | 33      | 30      | 32      | —         | 25 |
| —                   | 6,139               | —       | —       | 3,167   | 1,028   | —         | 26 |

<sup>4</sup> Includes also 453 in the Departmental summer schools for teachers in N.S., 2,918 in Ont., and 245 in B.C., not held at universities or colleges.<sup>5</sup> Includes also 2 (a) for Quebec.<sup>6</sup> Estimated.

### Subsection 1.—The Provincially-Controlled Schools.

It is considered that the best general test of the efficiency of public general education in Canada is furnished by the statistics of Table 2, showing the 1932-33 age-grade distribution of 1,457,026 pupils in the provincially-controlled schools of seven provinces. Many other tables of this form, analysing age-grade distribution by provinces, by sex, and by rural and urban areas and graded or ungraded schools, may be consulted in the Dominion Bureau of Statistics' "Annual Survey of Education in Canada, 1933", pp. 24-39.

### 2.—Provincially-Controlled Schools in Canada; Distribution of 1,457,026 Pupils in Seven Provinces, by Age and Grade, 1932-33.

| Age.               | Elementary Grades.       |         |         |         |         |         |         |         |         |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
|                    | K. and K.P. <sup>1</sup> | I.      | II.     | III.    | IV.     | V.      | VI.     | VII.    | VIII.   |
| 4.....             | —                        | 82      | —       | —       | —       | —       | —       | —       | —       |
| 5.....             | 3,684                    | 5,759   | 59      | 1       | —       | —       | —       | —       | —       |
| 6.....             | 17,935                   | 58,301  | 3,734   | 221     | 6       | —       | —       | —       | —       |
| 7.....             | 4,780                    | 84,609  | 30,668  | 4,263   | 422     | 16      | —       | —       | —       |
| 8.....             | 1,161                    | 41,420  | 58,062  | 25,743  | 8,084   | 541     | 28      | 1       | 2       |
| 9.....             | 346                      | 15,125  | 37,372  | 40,579  | 37,234  | 8,246   | 775     | 35      | 2       |
| 10.....            | 118                      | 5,714   | 16,313  | 26,273  | 47,335  | 37,745  | 8,536   | 779     | 82      |
| 11.....            | 49                       | 2,506   | 6,862   | 13,141  | 30,829  | 48,835  | 33,763  | 7,796   | 1,325   |
| 12.....            | 27                       | 1,274   | 3,011   | 6,229   | 16,092  | 33,590  | 43,225  | 30,160  | 9,332   |
| 13.....            | 12                       | 607     | 1,429   | 2,943   | 8,097   | 19,212  | 31,571  | 39,135  | 29,459  |
| Totals, 7-13.....  | 6,488                    | 151,255 | 153,717 | 119,171 | 148,093 | 148,185 | 117,898 | 77,906  | 40,202  |
| 14.....            | 14                       | 324     | 653     | 1,293   | 3,618   | 8,820   | 16,365  | 26,241  | 34,803  |
| 15.....            | —                        | 103     | 215     | 489     | 1,327   | 3,532   | 7,845   | 13,728  | 24,672  |
| 16.....            | —                        | 46      | 88      | 153     | 396     | 977     | 2,048   | 4,940   | 10,963  |
| 17.....            | —                        | 26      | 25      | 42      | 99      | 200     | 486     | 1,106   | 3,086   |
| Totals, 14-17..... | 14                       | 504     | 981     | 1,977   | 5,440   | 13,529  | 26,744  | 46,015  | 73,524  |
| 18.....            | —                        | 7       | 6       | 11      | 26      | 51      | 89      | 199     | 630     |
| 19.....            | —                        | 9       | 9       | 11      | 55      | 27      | 90      | 55      | 182     |
| Grand Totals.....  | 28,121                   | 215,917 | 158,506 | 121,392 | 153,620 | 161,792 | 144,821 | 124,175 | 114,538 |

| Age.               | Secondary Grades. |        |        |        |          | Totals.     |            |               | Grand Total. |
|--------------------|-------------------|--------|--------|--------|----------|-------------|------------|---------------|--------------|
|                    | IX.               | X.     | XI.    | XII.   | Special. | Elementary. | Secondary. | Unclassified. |              |
| 4.....             | —                 | —      | —      | —      | —        | 82          | —          | —             | 82           |
| 5.....             | —                 | —      | —      | —      | —        | 9,503       | —          | —             | 9,503        |
| 6.....             | —                 | —      | —      | —      | —        | 80,197      | —          | 77            | 80,274       |
| 7.....             | —                 | —      | —      | —      | —        | 124,758     | —          | 78            | 124,836      |
| 8.....             | —                 | —      | —      | —      | —        | 135,042     | —          | 84            | 135,126      |
| 9.....             | —                 | —      | —      | —      | —        | 139,714     | —          | 84            | 139,798      |
| 10.....            | 16                | —      | —      | —      | —        | 142,890     | 16         | 80            | 142,986      |
| 11.....            | 449               | 22     | 1      | —      | 1        | 145,106     | 473        | 85            | 145,664      |
| 12.....            | 4,266             | 384    | 17     | —      | 59       | 142,940     | 4,726      | 58            | 147,724      |
| 13.....            | 13,214            | 3,115  | 360    | 2      | 317      | 132,465     | 17,008     | 50            | 149,523      |
| Totals, 7-13.....  | 17,945            | 3,521  | 378    | 2      | 377      | 962,915     | 22,223     | 519           | 985,657      |
| 14.....            | 23,106            | 10,621 | 2,877  | 39     | 721      | 92,131      | 37,364     | 20            | 129,515      |
| 15.....            | 22,628            | 17,704 | 9,752  | 611    | 1,081    | 51,916      | 51,776     | 6             | 103,698      |
| 16.....            | 13,175            | 16,537 | 16,422 | 3,037  | 768      | 19,611      | 49,939     | 1             | 69,551       |
| 17.....            | 5,096             | 9,340  | 15,009 | 6,084  | 719      | 5,070       | 36,248     | 1             | 41,319       |
| Totals, 14-17..... | 64,005            | 54,202 | 44,060 | 9,771  | 3,289    | 168,728     | 175,327    | 28            | 344,083      |
| 18.....            | 1,705             | 3,677  | 8,631  | 5,939  | 697      | 1,019       | 20,649     | —             | 21,668       |
| 19.....            | 749               | 1,761  | 5,521  | 5,721  | 1,569    | 438         | 15,321     | —             | 15,759       |
| Grand Totals.....  | 84,404            | 63,161 | 58,590 | 21,433 | 5,932    | 1,222,882   | 233,520    | 624           | 1,457,026    |

<sup>1</sup> Kindergarten and Kindergarten-primary.



General elementary and secondary education throughout the Dominion, in so far as it is provincially-controlled, is carried on, except in Quebec, in free schools supported by general taxation. These schools may be divided into 12 grades, 8 of which are normally considered to be elementary and 4 secondary. The twelfth grade is in most provinces a postgraduate year, corresponding to the first year of a university course. The average pupil takes one school year to complete each grade, so that entering school at 6 years of age, he would matriculate to the university at 17 or 18.

A historical summary of the enrolment and average attendance in provincially-controlled schools from 1911 to 1933 is given by provinces in Table 3. The enrolment and average attendance, in cities of 10,000 population and over, are given in Table 4.

### 3.—Historical Summary of Enrolment and Average Attendance in Schools in Canada, by Provinces, 1911-33.

#### TOTAL NUMBERS ENROLLED, 1911-33.

NOTE.—Figures of enrolment and average attendance in various years prior to 1911 are given on pp. 839 and 840 of the 1932 Year Book.

| Year.    | P.E.I. | N.S.    | N.B. <sup>1</sup> | Que. <sup>1</sup> | Ont. <sup>1</sup> | Man.    | Sask.   | Alta. <sup>1</sup>   | B.C.    | Canada. <sup>1</sup> |
|----------|--------|---------|-------------------|-------------------|-------------------|---------|---------|----------------------|---------|----------------------|
| 1911.... | 17,397 | 102,910 | 68,951            | 389,123           | 518,605           | 80,848  | 72,260  | 61,660               | 49,451  | 1,361,205            |
| 1912.... | 17,078 | 103,984 | 69,199            | 400,036           | 527,570           | —       | 81,896  | 70,414               | 50,170  | 1,320,347            |
| 1913.... | 17,555 | 105,269 | 69,663            | 411,784           | 544,138           | 83,679  | 101,463 | 79,909               | 57,384  | 1,470,844            |
| 1914.... | 19,069 | 106,351 | 70,622            | 435,895           | 563,889           | 93,954  | 113,985 | 89,910               | 61,957  | 1,555,632            |
| 1915.... | 18,402 | 107,768 | 72,013            | 448,087           | 571,387           | 100,963 | 122,862 | 97,286               | 64,264  | 1,602,972            |
| 1916.... | 18,362 | 109,189 | 73,007            | 464,853           | 563,727           | 103,796 | 129,439 | 99,201               | 64,570  | 1,626,144            |
| 1917.... | 18,190 | 109,032 | 71,981            | 463,808           | 565,539           | 106,588 | 142,617 | 107,727              | 65,118  | 1,650,600            |
| 1918.... | 17,861 | 108,097 | 71,782            | 467,933           | 569,394           | 109,925 | 151,326 | 111,109              | 67,516  | 1,674,943            |
| 1919.... | 17,587 | 106,982 | 71,029            | 492,829           | 589,514           | 114,662 | 164,219 | 121,567              | 72,006  | 1,750,395            |
| 1920.... | 17,354 | 108,096 | 72,988            | 504,914           | 609,849           | 123,452 | 174,925 | 135,750              | 79,243  | 1,826,571            |
| 1921.... | 17,510 | 109,483 | 73,771            | 518,410           | 637,467           | 129,015 | 184,871 | 124,328 <sup>2</sup> | 85,950  | 1,880,805            |
| 1922.... | 18,323 | 114,229 | 77,852            | 536,938           | 661,880           | 136,876 | 183,935 | 142,902              | 91,919  | 1,964,854            |
| 1923.... | 17,742 | 114,458 | 78,887            | 543,559           | 677,106           | 142,369 | 194,313 | 145,803              | 94,888  | 2,001,125            |
| 1924.... | 17,281 | 111,594 | 79,452            | 547,880           | 682,906           | 144,491 | 204,154 | 145,312              | 96,204  | 2,029,274            |
| 1925.... | 17,427 | 112,352 | 80,360            | 555,721           | 692,653           | 145,834 | 206,595 | 145,692              | 97,954  | 2,054,588            |
| 1926.... | 17,324 | 112,391 | 81,330            | 559,198           | 703,614           | 148,279 | 213,404 | 148,245              | 101,688 | 2,085,473            |
| 1927.... | 17,210 | 112,556 | 81,916            | 563,704           | 720,625           | 148,763 | 218,560 | 151,292              | 105,008 | 2,154,634            |
| 1928.... | 17,214 | 112,898 | 83,271            | 571,135           | 731,258           | 150,883 | 223,049 | 155,741              | 108,179 | 2,153,628            |
| 1929.... | 17,180 | 113,309 | 84,370            | 582,661           | 738,477           | 150,517 | 227,263 | 161,235              | 109,558 | 2,154,570            |
| 1930.... | 17,277 | 113,860 | 87,308            | 589,286           | 756,812           | 151,846 | 228,434 | 164,519              | 111,017 | 2,220,359            |
| 1931.... | 17,506 | 115,511 | 88,836            | 606,120           | 772,388           | 153,553 | 230,492 | 165,786              | 113,914 | 2,264,106            |
| 1932.... | 17,846 | 116,041 | 89,755            | 618,597           | 778,972           | 151,927 | 229,193 | 167,675              | 115,919 | 2,285,925            |
| 1933.... | 18,247 | 117,238 | 90,888            | 6                 | 6                 | 150,070 | 226,007 | 168,992              | 116,816 | 2                    |

For footnotes see end of table on next page.

### 3.—Historical Summary of Enrolment and Average Attendance in Schools in Canada, by Provinces, 1911-33—concluded.

AVERAGES OF DAILY ATTENDANCE, 1911-33.

| Year.    | P.E.I. | N.S.   | N.B. <sup>1</sup> | Que. <sup>1</sup> | Ont. <sup>1</sup> | Man.    | Sask.   | Alta. <sup>1</sup> | B.C.    | Canada. <sup>1</sup> |
|----------|--------|--------|-------------------|-------------------|-------------------|---------|---------|--------------------|---------|----------------------|
| 1911.... | 10,511 | 61,250 | 42,791            | 301,678           | 305,648           | 45,303  | 38,278  | 32,556             | 32,517  | 870,532              |
| 1912.... | 10,916 | 63,640 | 43,685            | 314,520           | 323,358           | -       | 49,329  | 39,226             | 37,384  | 882,058              |
| 1913.... | 11,003 | 65,686 | 44,375            | 324,447           | 340,223           | 48,163  | 56,005  | 45,888             | 43,072  | 978,862              |
| 1914.... | 11,170 | 66,599 | 44,534            | 344,657           | 357,519           | 58,778  | 65,009  | 54,582             | 49,090  | 1,051,938            |
| 1915.... | 11,694 | 70,361 | 47,889            | 360,897           | 367,959           | 68,250  | 72,113  | 61,112             | 52,494  | 1,112,769            |
| 1916.... | 11,347 | 69,227 | 48,069            | 373,754           | 366,891           | 66,561  | 71,522  | 60,271             | 50,880  | 1,118,522            |
| 1917.... | 11,319 | 70,118 | 46,860            | 367,868           | 371,129           | 69,209  | 88,758  | 65,374             | 52,577  | 1,143,212            |
| 1918.... | 11,334 | 67,923 | 46,515            | 269,426           | 382,506           | 69,968  | 91,010  | 68,489             | 54,748  | 1,061,919            |
| 1919.... | 10,908 | 65,906 | 45,797            | 370,710           | 391,539           | 72,072  | 98,791  | 74,776             | 56,692  | 1,187,191            |
| 1920.... | 10,991 | 66,442 | 46,950            | 379,319           | 398,264           | 88,563  | 101,355 | 82,417             | 59,791  | 1,234,092            |
| 1921.... | 11,446 | 78,238 | 49,714            | 401,655           | 450,656           | 86,137  | 113,412 | 89,401             | 68,597  | 1,349,256            |
| 1922.... | 12,338 | 79,410 | 51,668            | 426,466           | 475,591           | 95,433  | 119,041 | 100,515            | 75,528  | 1,435,990            |
| 1923.... | 11,763 | 83,472 | 53,745            | 426,935           | 482,068           | 98,787  | 130,499 | 103,612            | 77,752  | 1,468,633            |
| 1924.... | 11,783 | 79,509 | 58,366            | 430,185           | 496,673           | 103,775 | 139,782 | 104,003            | 79,262  | 1,503,338            |
| 1925.... | 12,259 | 80,318 | 58,397            | 443,741           | 508,044           | 104,312 | 144,650 | 105,978            | 82,721  | 1,540,420            |
| 1926.... | 11,823 | 80,446 | 58,731            | 448,252           | 512,175           | 106,809 | 152,430 | 108,881            | 85,293  | 1,546,830            |
| 1927.... | 11,777 | 81,426 | 61,070            | 452,757           | 528,485           | 106,793 | 157,392 | 112,401            | 88,306  | 1,600,407            |
| 1928.... | 12,123 | 82,591 | 62,205            | 461,228           | 535,691           | 114,270 | 157,207 | 116,245            | 91,760  | 1,633,320            |
| 1929.... | 12,144 | 84,275 | 63,312            | 468,537           | 583,334           | 116,766 | 161,658 | 120,229            | 94,410  | 1,704,665            |
| 1930.... | 12,201 | 85,080 | 65,726            | 478,682           | 592,265           | 117,037 | 169,893 | 129,371            | 96,196  | 1,746,451            |
| 1931.... | 12,721 | 87,418 | 70,856            | 502,890           | 597,164           | 120,703 | 176,716 | 134,112            | 99,375  | 1,801,955            |
| 1932.... | 13,119 | 89,513 | 71,423            | 518,921           | 606,867           | 122,843 | 176,916 | 136,711            | 103,510 | 1,839,823            |
| 1933.... | 13,810 | 93,866 | 72,204            | "                 | "                 | 121,190 | 175,002 | 137,558            | 104,978 | "                    |

<sup>1</sup>Figures revised since publication of the 1933 Year Book. <sup>2</sup>Half-year only. <sup>3</sup>Figures for Quebec and Ontario for 1933 not available at time of going to press.

### 4.—Numbers of Pupils Enrolled and in Average Attendance in All General Schools, and in High School Grades, in Cities of 10,000 or over, by Sex, 1933, or Latest Year Reported.

NOTE.—The high school enrolment in Quebec cities is not given because it would not be complete without including the high school pupils of the classical colleges and independent classical schools and of the normal schools. The figures for secondary grades for Ontario cities represent high schools, vocational schools, and collegiate institutes only; they do not include pupils in fifth classes.

| City.                      | General Schools. |        |        |                             | High School Grades<br>(included in<br>General Schools figures). |        |        |
|----------------------------|------------------|--------|--------|-----------------------------|-----------------------------------------------------------------|--------|--------|
|                            | Enrolment.       |        |        | Average<br>Attend-<br>ance. | Enrolment.                                                      |        |        |
|                            | Boys.            | Girls. | Total. |                             | Boys.                                                           | Girls. | Total. |
|                            | No.              | No.    | No.    | No.                         | No.                                                             | No.    | No.    |
| Belleville, Ont. ....      | 1,939            | 1,863  | 3,802  | 2,946                       | 448                                                             | 448    | 896    |
| Brandon, Man. ....         | 1,933            | 1,874  | 3,807  | 3,428                       | 405                                                             | 393    | 798    |
| Brantford, Ont. ....       | 3,687            | 3,509  | 7,196  | 5,922                       | 720                                                             | 628    | 1,348  |
| Calgary, Alta. ....        | 8,838            | 8,826  | 17,664 | 15,558                      | 2,117                                                           | 2,313  | 4,430  |
| Charlottetown, P.E.I. .... | 1,232            | 613    | 1,845  | 1,659                       | 187                                                             | 97     | 284    |
| Chatham, Ont. ....         | 2,037            | 1,949  | 3,986  | 3,186                       | 468                                                             | 480    | 948    |
| Chicoutimi, Que. ....      | 1,698            | 1,660  | 3,358  | 2,897                       | —                                                               | —      | —      |
| Cornwall, Ont. ....        | 1,995            | 1,933  | 3,928  | 3,278                       | 291                                                             | 289    | 580    |
| East Windsor, Ont. ....    | 2,206            | 2,171  | 4,377  | 3,436                       | —                                                               | —      | —      |
| Edmonton, Alta. ....       | 9,458            | 9,814  | 19,272 | 16,640                      | 2,306                                                           | 2,505  | 4,811  |
| Fort William, Ont. ....    | 3,538            | 3,710  | 7,248  | 6,178                       | 653                                                             | 659    | 1,312  |
| Galt, Ont. ....            | 1,611            | 1,614  | 3,225  | 2,721                       | 404                                                             | 389    | 793    |
| Glace Bay, N.S. ....       | 2,620            | 2,640  | 5,260  | 4,269                       | 171                                                             | 260    | 431    |
| Granby, Que. ....          | 1,270            | 1,069  | 2,339  | 2,018                       | —                                                               | —      | —      |
| Guelph, Ont. ....          | 2,528            | 2,356  | 4,884  | 3,975                       | 456                                                             | 420    | 876    |
| Halifax, N.S. ....         | 6,443            | 6,355  | 12,798 | 10,568                      | 654                                                             | 853    | 1,507  |
| Hamilton, Ont. ....        | 18,545           | 17,631 | 36,176 | 30,143                      | 3,283                                                           | 2,649  | 5,932  |
| Hull, Que. ....            | 3,470            | 3,449  | 6,919  | 5,877                       | —                                                               | —      | —      |

**4.—Numbers of Pupils Enrolled and in Average Attendance in All General Schools, and in High School Grades, in Cities of 10,000 or over, by Sex, 1933, or Latest Year Reported—concluded.**

| City.                      | General Schools. |        |         |                     | High School Grades (included in General Schools figures). |        |        |
|----------------------------|------------------|--------|---------|---------------------|-----------------------------------------------------------|--------|--------|
|                            | Enrolment.       |        |         | Average Attendance. | Enrolment.                                                |        |        |
|                            | Boys.            | Girls. | Total.  |                     | Boys.                                                     | Girls. | Total. |
|                            | No.              | No.    | No.     | No.                 | No.                                                       | No.    | No.    |
| Joliette, Que.....         | 1,376            | 1,273  | 2,649   | 2,195               | —                                                         | —      | —      |
| Kingston, Ont.....         | 2,719            | 2,747  | 5,466   | 4,346               | 589                                                       | 537    | 1,126  |
| Kitchener, Ont.....        | 3,004            | 3,679  | 7,583   | 6,370               | 676                                                       | 595    | 1,271  |
| Lachine, Que.....          | 2,386            | 2,305  | 4,691   | 4,140               | —                                                         | —      | —      |
| Lethbridge, Alta.....      | 1,626            | 1,560  | 3,186   | 2,743               | 387                                                       | 442    | 829    |
| Lévis, Que.....            | 713              | 906    | 1,619   | 1,431               | —                                                         | —      | —      |
| London, Ont.....           | 8,665            | 7,862  | 16,527  | 13,472              | 2,051                                                     | 1,865  | 3,916  |
| Medicine Hat, Alta.....    | 1,260            | 1,268  | 2,528   | 2,205               | 359                                                       | 357    | 716    |
| Moncton, N.B.....          | 2,546            | 2,508  | 5,054   | 4,357               | 353                                                       | 398    | 751    |
| Montreal, Que.....         | 83,185           | 80,460 | 163,645 | 139,511             | —                                                         | —      | —      |
| Moose Jaw, Sask.....       | 3,152            | 2,810  | 5,962   | 4,882               | 1,008                                                     | 788    | 1,796  |
| New Westminster, B.C.....  | 1,869            | 1,834  | 3,703   | 3,308               | 534                                                       | 466    | 1,000  |
| Niagara Falls, Ont.....    | 2,134            | 1,978  | 4,162   | 3,589               | 392                                                       | 282    | 674    |
| North Bay, Ont.....        | 2,304            | 2,122  | 4,426   | 3,693               | 438                                                       | 351    | 789    |
| Oshawa, Ont.....           | 2,820            | 2,693  | 5,513   | 4,691               | 507                                                       | 455    | 962    |
| Ottawa, Ont.....           | 15,051           | 13,826 | 28,877  | 23,330              | 2,423                                                     | 2,105  | 4,528  |
| Outremont, Que.....        | 1,944            | 2,012  | 3,956   | 3,475               | —                                                         | —      | —      |
| Owen Sound, Ont.....       | 1,566            | 1,445  | 3,011   | 2,553               | 306                                                       | 319    | 625    |
| Peterborough, Ont.....     | 2,813            | 2,677  | 5,490   | 4,464               | 480                                                       | 472    | 952    |
| Port Arthur, Ont.....      | 2,582            | 2,444  | 5,026   | 4,128               | 649                                                       | 618    | 1,267  |
| Quebec, Que.....           | 13,192           | 13,934 | 27,126  | 23,657              | —                                                         | —      | —      |
| Regina, Sask.....          | 6,163            | 6,025  | 12,188  | 10,648              | 1,351                                                     | 1,403  | 2,754  |
| St. Boniface, Man.....     | 1,011            | 1,161  | 2,172   | 1,844               | 132                                                       | 185    | 317    |
| St. Catharines, Ont.....   | 3,289            | 3,370  | 6,659   | 5,605               | 709                                                       | 765    | 1,474  |
| St. Hyacinthe, Que.....    | 1,306            | 1,705  | 3,011   | 2,735               | —                                                         | —      | —      |
| St. Jean, Que.....         | 1,189            | 1,174  | 2,363   | 2,063               | —                                                         | —      | —      |
| Saint John, N.B.....       | 4,962            | 5,129  | 10,091  | 8,857               | 466                                                       | 751    | 1,217  |
| St. Thomas, Ont.....       | 2,052            | 1,969  | 4,021   | 3,375               | 591                                                       | 558    | 1,149  |
| Sandwich, Ont.....         | 1,532            | 1,397  | 2,929   | 2,433               | 146                                                       | 142    | 288    |
| Sarnia, Ont.....           | 2,368            | 2,231  | 4,599   | 3,721               | 543                                                       | 505    | 1,048  |
| Saskatoon, Sask.....       | 5,478            | 5,382  | 10,860  | 9,551               | 1,424                                                     | 1,522  | 2,946  |
| Sault Ste. Marie, Ont..... | 3,195            | 3,259  | 6,454   | 5,392               | 609                                                       | 650    | 1,259  |
| Shawinigan Falls, Que..... | 2,120            | 1,936  | 4,056   | 3,696               | —                                                         | —      | —      |
| Sherbrooke, Que.....       | 3,081            | 3,217  | 6,298   | 5,443               | —                                                         | —      | —      |
| Sorel, Que.....            | 1,053            | 952    | 2,005   | 1,787               | —                                                         | —      | —      |
| Stratford, Ont.....        | 2,290            | 2,141  | 4,431   | 3,717               | 517                                                       | 475    | 992    |
| Sudbury, Ont.....          | 2,578            | 2,523  | 5,101   | 4,106               | 354                                                       | 376    | 730    |
| Sydney, N.S.....           | 3,003            | 2,958  | 5,961   | 4,959               | 393                                                       | 367    | 760    |
| Thetford Mines, Que.....   | 1,279            | 1,197  | 2,476   | 2,160               | —                                                         | —      | —      |
| Timmins, Ont.....          | 2,283            | 2,132  | 4,415   | 3,620               | 273                                                       | 261    | 534    |
| Toronto, Ont.....          | 69,898           | 66,448 | 136,346 | 104,203             | 13,239                                                    | 11,578 | 24,817 |
| Three Rivers, Que.....     | 4,184            | 4,444  | 8,628   | 7,527               | —                                                         | —      | —      |
| Valleyfield, Que.....      | 1,274            | 1,379  | 2,653   | 2,331               | —                                                         | —      | —      |
| Vancouver, B.C.....        | 21,913           | 20,440 | 42,353  | 30,992              | 5,014                                                     | 4,648  | 9,662  |
| Verdun, Que.....           | 6,310            | 4,983  | 11,293  | 10,370              | —                                                         | —      | —      |
| Victoria, B.C.....         | 2,967            | 2,943  | 5,910   | 5,417               | 636                                                       | 668    | 1,304  |
| Walkerville, Ont.....      | 1,364            | 1,263  | 2,626   | 2,145               | 335                                                       | 307    | 642    |
| Welland, Ont.....          | 1,564            | 1,478  | 3,042   | 2,566               | 376                                                       | 343    | 719    |
| Westmount, Que.....        | 1,774            | 1,614  | 3,388   | 3,080               | —                                                         | —      | —      |
| Windsor, Ont.....          | 8,160            | 7,498  | 15,658  | 13,058              | 2,063                                                     | 1,643  | 3,706  |
| Winnipeg, Man.....         | 20,831           | 19,634 | 40,465  | 35,767              | 4,242                                                     | 3,896  | 8,138  |
| Woodstock, Ont.....        | 1,210            | 1,287  | 2,497   | 2,012               | 340                                                       | 424    | 764    |

**Secondary Education.**—In the past quarter of a century the number of pupils of both sexes doing work of secondary grade has shown a very great absolute increase as well as a large increase relative to the number in elementary grades. The available statistics are given by years in Table 5, and show that in each of the provinces and in every year the number of girls in the secondary grades has exceeded the number of boys. The drop in the Ontario figures between 1915 and 1917 is due in part to the change in the statistical year from the calendar year to the natural school year—September to June.

### 5.—Provincially-Controlled Schools in Canada: Comparative Numbers of Boys and Girls Doing Work of Secondary Grade in each of Seven Provinces, 1911-33.<sup>1</sup>

NOTE.—For corresponding figures for 1901-10, see p. 974 of the 1933 Year Book. B=boys; G=girls.

| Year.     | N.S.  |       | N.B. <sup>2</sup> |       | Ontario. <sup>2</sup> |        | Manitoba. <sup>2</sup> |        | Sask.  |        | Alberta. <sup>2</sup> |        | B.C.   |        |
|-----------|-------|-------|-------------------|-------|-----------------------|--------|------------------------|--------|--------|--------|-----------------------|--------|--------|--------|
|           | B.    | G.    | B.                | G.    | B.                    | G.     | B.                     | G.     | B.     | G.     | B.                    | G.     | B.     | G.     |
| 1911..... | 3,211 | 5,463 | -                 | -     | 17,073                | 20,907 | -                      | -      | 766    | 927    | -                     | -      | 940    | 1,048  |
| 1912..... | 3,132 | 5,536 | -                 | -     | 17,525                | 21,461 | -                      | -      | 885    | 1,129  | -                     | -      | 973    | 1,178  |
| 1913..... | 3,175 | 5,461 | -                 | -     | 17,227                | 23,379 | -                      | -      | 1,028  | 1,326  | -                     | -      | 1,232  | 1,448  |
| 1914..... | 3,216 | 5,687 | -                 | -     | 18,808                | 25,689 | -                      | -      | 1,034  | 1,622  | -                     | -      | 1,414  | 1,593  |
| 1915..... | 3,436 | 6,041 | -                 | -     | -                     | -      | -                      | -      | 1,545  | 2,038  | -                     | -      | 1,844  | 2,068  |
| 1916..... | 3,466 | 6,260 | -                 | -     | 20,135                | 27,448 | -                      | -      | 1,566  | 2,283  | -                     | -      | 2,260  | 2,510  |
| 1917..... | 3,051 | 6,037 | -                 | -     | 16,241                | 21,061 | -                      | -      | 1,445  | 2,441  | -                     | -      | 2,074  | 2,767  |
| 1918..... | 3,082 | 6,115 | -                 | -     | 16,407                | 21,468 | -                      | -      | 1,523  | 2,561  | -                     | -      | 2,151  | 2,999  |
| 1919..... | 3,024 | 6,114 | -                 | -     | 18,107                | 22,370 | -                      | -      | 1,910  | 2,841  | -                     | -      | 2,392  | 3,414  |
| 1920..... | 3,313 | 6,178 | -                 | -     | 19,618                | 23,334 | -                      | -      | 2,492  | 3,425  | -                     | -      | 3,826  | 3,810  |
| 1921..... | 3,425 | 6,280 | -                 | -     | 19,452                | 23,099 | 3,524                  | 5,091  | 2,494  | 3,423  | 3,088                 | 4,421  | 3,093  | 4,166  |
| 1922..... | 4,202 | 6,937 | -                 | -     | 24,475                | 27,779 | 4,389                  | 6,340  | 2,423  | 3,204  | 4,707                 | 6,055  | 3,788  | 4,846  |
| 1923..... | 4,715 | 7,373 | -                 | -     | 28,396                | 31,999 | 5,367                  | 7,242  | 5,519  | 8,028  | 4,851                 | 6,703  | 4,046  | 5,174  |
| 1924..... | 4,415 | 7,217 | 1,492             | 2,174 | 31,129                | 35,655 | 5,449                  | 7,354  | 6,604  | 9,410  | 5,322                 | 7,184  | 4,380  | 5,509  |
| 1925..... | 4,696 | 7,157 | 1,669             | 2,284 | 35,085                | 39,171 | 5,480                  | 7,396  | 7,255  | 10,171 | 5,917                 | 7,851  | 4,711  | 5,886  |
| 1926..... | 4,605 | 7,343 | 1,849             | 2,511 | 36,685                | 41,972 | 5,560                  | 7,991  | 8,140  | 11,361 | 6,144                 | 7,378  | 5,306  | 6,473  |
| 1927..... | 4,498 | 7,472 | 2,185             | 3,076 | 37,595                | 42,788 | 5,499                  | 7,921  | 8,315  | 11,721 | 6,049                 | 8,829  | 6,308  | 7,545  |
| 1928..... | 4,633 | 7,483 | 2,200             | 3,028 | 40,581                | 45,452 | 5,665                  | 8,498  | 8,497  | 12,405 | 6,740                 | 9,716  | 7,494  | 8,865  |
| 1929..... | 4,809 | 7,722 | 2,132             | 3,046 | 42,407                | 47,718 | 6,458                  | 8,628  | 9,197  | 13,397 | 7,128                 | 10,910 | 9,350  | 10,661 |
| 1930..... | 4,931 | 7,984 | 2,678             | 3,714 | 44,000                | 47,430 | 6,576                  | 8,586  | 10,226 | 14,223 | 8,232                 | 11,034 | 9,609  | 10,900 |
| 1931..... | 5,279 | 8,573 | 2,753             | 3,657 | 47,627                | 50,450 | 7,372                  | 9,253  | 12,212 | 16,371 | 9,975                 | 12,691 | 10,893 | 11,848 |
| 1932..... | 6,086 | 9,140 | 3,239             | 4,103 | 54,469                | 55,166 | 8,656                  | 10,039 | 15,196 | 18,774 | 12,076                | 14,641 | 11,930 | 12,736 |
| 1933..... | 6,969 | 9,732 | 3,388             | 4,257 | 57,475                | 57,070 | 9,510                  | 10,119 | 15,877 | 19,227 | 13,191                | 14,998 | 12,843 | 13,053 |

<sup>1</sup>P.E.I. (including Prince of Wales College): 1923—679 boys, 1058 girls; 1924—719-1,113; 1925—669-1,087; 1926—704-1,070; 1927—669-1,132; 1928—620-1,216; 1929—716-1,217; 1930—696-1,152; 1931—836-1,432; 1932—982-1,627; 1933—1,167-1,691.

<sup>2</sup>Figures revised since the publication of the 1933 Year Book.

**Subjects of Instruction in Secondary Grades.**—The subjects taken in the elementary grades of the provincially-controlled schools are settled by the curricula, but in the secondary grades there are usually options appealing to different types of pupils, wishing to follow different callings. Statistics of the subjects taken by pupils in secondary grades in 1930, available for six provinces, were presented in the Canada Year Book, 1932, p. 843, showing, among other things, the small number of pupils taking Greek and German and the high proportion studying French and Latin. The "Annual Survey of Education in Canada, 1933" shows in detail the changes in the subjects chosen in recent years by secondary grade pupils in the different provinces.

**Vocational and Technical Education.**—The introduction of technical and vocational courses into the high school curricula has been stimulated in recent years by the Technical Education Acts of 1919, 1929 and 1931, under the terms of which the Dominion Government undertook to provide subsidies to the provinces to encourage the growth of technical instruction. From the outset evening classes during the winter months have been an important part of the work of the technical schools. The numbers of students in institutions for technical education coming within the scope of the Technical Education Act of 1919 (9-10 Geo. V, c. 73) in the academic years ended June 30, were as follows: 1921, 56,774; 1922, 61,961; 1923, 70,300; 1924, 79,829; 1925, 88,024; 1926, 88,961; 1927, 96,682; 1928, 109,008; 1929, 121,252. In the years since 1929 not all provinces have been receiving grants, but Table 6 provides a record of pupils receiving instruction of a technical character in the provincially-controlled schools in 1933.



**6.—Enrolment in Provincially-Controlled Vocational Schools in Canada, by Provinces, school year ended June 30, 1933.**

| Province.                  | Full-Time Day Students. |                        |               | Part-Time and Short Course Students | Evening Students. |
|----------------------------|-------------------------|------------------------|---------------|-------------------------------------|-------------------|
|                            | Commercial.             | Other than Commercial. | Total.        |                                     |                   |
| Prince Edward Island.....  | 40                      | —                      | 40            | 1,240                               | —                 |
| Nova Scotia.....           | 62                      | 21                     | 83            | 174                                 | 2,236             |
| New Brunswick.....         | 578                     | 745                    | 1,323         | 284                                 | 812               |
| Quebec.....                | —                       | 7,750                  | 7,750         | 204                                 | 15,108            |
| Ontario <sup>2</sup> ..... | 16,467                  | 18,188                 | 34,655        | 2,498                               | 38,314            |
| Manitoba (1932).....       | 2,965                   | 286                    | 3,251         | 120                                 | 2,002             |
| Saskatchewan.....          | 1,644                   | 1,292                  | 2,936         | 202                                 | 1,659             |
| Alberta.....               | 1,463                   | 2,545                  | 4,008         | 173                                 | 1,770             |
| British Columbia.....      | 3,654                   | 8,334                  | 11,988        | —                                   | 4,600             |
| <b>Totals.....</b>         | <b>26,873</b>           | <b>39,161</b>          | <b>66,034</b> | <b>4,895</b>                        | <b>66,501</b>     |

<sup>1</sup>This table does not include students in commercial courses in Quebec who, it will be noted, constitute a numerous group in other provinces. In Quebec statistics they are included with the high schools, classical colleges, etc. Moreover, this table comes far short of demonstrating the full importance of technical or vocational training in Quebec for another reason. All the work in the Catholic schools in advance of the elementary years (i.e., in the five complementary and superior years, including about 25,000 pupils) has a highly vocational character. <sup>2</sup>Apart from certain compulsory general subjects in these years optional subjects are grouped in four vocational sections, in one of which each pupil studies. <sup>3</sup>Enrolment in Ontario schools is not for the full year but for a certain day—the last school day in May.

**Teaching Staffs.**—As shown in Table 1, the teaching staffs of Canadian schools consisted in 1933 of 73,241 teachers, 16,147 males and 57,094 females. The "Annual Survey of Education in Canada, 1933" deals in detail with the classification of these teachers, the rates of salary paid and the teaching experience. Table 7 summarizes statistics regarding rates of salary, as far as these are available.

**7.—Average Annual Salaries of School Teachers, by Provinces, 1932-33, or Latest Year Reported.**

| Province and Class of Certificate.   | Male. | Female. | Province and Class of Certificate.          | Male. | Female. |
|--------------------------------------|-------|---------|---------------------------------------------|-------|---------|
| \$                                   | \$    |         | \$                                          | \$    |         |
| Prince Edward Island, 1933—          |       |         | Ontario—conc.                               |       |         |
| First class.....                     | 754   | 632     | High Schools and Collegiate                 |       |         |
| Second class.....                    | 527   | 477     | Institutes, 1933—                           |       |         |
| Third class.....                     | 436   | 386     | Principals.....                             | 2,918 |         |
| Nova Scotia, 1933—                   |       |         | Assistants.....                             | 2,372 | 1,946   |
| Academic.....                        | 2,326 | 1,460   | Continuation schools, 1933—                 |       |         |
| Class A.....                         | 1,304 | 951     | Principals.....                             | 1,484 |         |
| Class B.....                         | 947   | 765     | Assistants.....                             | 1,105 | 1,103   |
| Class C.....                         | 523   | 547     | Manitoba, 1933 (medians)—                   |       |         |
| Class D.....                         | 502   | 450     | All schools.....                            | 845   | 773     |
| All teachers.....                    | 1,057 | 699     | Ungraded schools.....                       | 581   | 576     |
| New Brunswick, 1933—                 |       |         | Consolidated schools.....                   | 1,150 | 731     |
| First class.....                     | 1,035 | 854     | Other graded schools.....                   | 1,421 | 999     |
| Second class.....                    | 560   | 551     | Saskatchewan, 1932—                         |       |         |
| Third class.....                     | 413   | 410     | Rural schools—                              |       |         |
| Superior schools.....                | 1,187 |         | First class.....                            | 687   | 590     |
| Grammar schools.....                 | 2,047 |         | Second class.....                           | 674   | 603     |
| Quebec, 1932—                        |       |         | All classes.....                            | 686   | 598     |
| Religious teachers.....              | 590   | 387     | Cities, towns and villages—                 |       |         |
| Lay teachers—                        |       |         | First class.....                            | 1,253 | 956     |
| Catholic schools.....                | 1,630 | 394     | Second class.....                           | 1,005 | 903     |
| Protestant schools.....              | 2,601 | 1,140   | All classes.....                            | 1,199 | 929     |
| Catholic and Protestant schools..... | 1,857 | 553     | Collegiate Institutes and High Schools..... | 2,281 | 1,784   |
| Ontario, 1932—                       |       |         | Alberta, 1932—                              |       |         |
| Public schools—                      |       |         | First class.....                            | 1,517 | 1,096   |
| Rural.....                           | 1,048 | 871     | Second class.....                           | 987   | 934     |
| City.....                            | 2,265 | 1,589   | Third class.....                            | 789   | 814     |
| Town.....                            | 1,669 | 913     | Specialist.....                             | 2,328 | 1,880   |
| Village.....                         | 1,355 | 970     | Provisional.....                            | —     | 840     |
| Separate schools—                    |       |         | British Columbia, 1933—                     |       |         |
| Rural.....                           | 897   | 845     | High and Junior High schools                | 1,908 |         |
| City.....                            | 880   | 693     | Elementary and Superior                     |       |         |
| Town.....                            | 1,109 | 759     | schools.....                                | 1,272 |         |
| Village.....                         | —     | 813     | All schools.....                            | 1,416 |         |
| Totals, public and separate.....     | 1,545 | 1,061   |                                             |       |         |

**Teachers in Training.**—Detailed information regarding male and female teachers in training in 1932-33 is given in the Bureau of Statistics' "Annual Survey of Education in Canada, 1933". A summary of the number of teachers in training in each year from 1902 to 1933 is furnished by provinces in Table 8.

### 8.—Provincially-Controlled Schools in Canada: Number of Teachers in Training in Normal Schools and Colleges, by Provinces, 1911-33.

NOTE.—In recent years several universities have added teacher-training departments, in most cases for university graduates who are trained for teaching positions in the secondary schools. These are included in the figures since 1930. The large increase in Quebec in 1932 is due to the recognition of teaching brothers' scholasticates as normal schools for the first time; that in Ontario in 1933 is due to a second year of training being inaugurated. For corresponding figures for 1902-10, see p. 976 of the 1933 Year Book.

| Year.     | P.E.I. | N.S. | N.B. | Que.  | Ont.  | Man. | Sask. | Alta. | B.C. | Total. |
|-----------|--------|------|------|-------|-------|------|-------|-------|------|--------|
| 1911..... | —      | 268  | 370  | 840   | 1,474 | 628  | 241   | 248   | —    | 4,069  |
| 1912..... | —      | 293  | 376  | 836   | 1,513 | —    | 580   | 278   | —    | 3,876  |
| 1913..... | —      | 302  | 358  | 1,088 | 1,436 | 529  | 643   | 292   | —    | 4,648  |
| 1914..... | —      | 318  | 357  | 1,270 | 1,563 | 581  | 886   | 357   | —    | 5,332  |
| 1915..... | —      | 355  | 351  | 1,312 | 1,425 | 672  | 1,222 | 601   | —    | 5,938  |
| 1916..... | —      | 388  | 372  | 1,357 | 1,819 | 737  | 911   | 438   | —    | 6,022  |
| 1917..... | —      | 263  | 372  | 1,361 | 1,438 | 599  | 1,081 | 334   | 335  | 5,783  |
| 1918..... | —      | 260  | 287  | 1,339 | 1,676 | 513  | 621   | 467   | 365  | 5,528  |
| 1919..... | —      | 255  | 263  | 1,223 | 1,659 | 554  | 1,058 | 297   | 425  | 5,734  |
| 1920..... | 220    | 228  | 263  | 1,502 | 1,959 | 593  | 723   | 413   | 404  | 6,305  |
| 1921..... | 241    | 241  | 216  | 1,376 | 2,221 | 642  | 899   | 411   | 377  | 6,624  |
| 1922..... | 341    | 356  | 358  | 1,389 | 2,684 | 790  | 1,462 | 536   | 685  | 8,601  |
| 1923..... | 347    | 353  | 451  | 1,555 | 3,131 | 637  | 1,571 | 1,004 | 672  | 9,721  |
| 1924..... | 338    | 682  | 442  | 1,623 | 3,392 | 695  | 1,621 | 639   | 639  | 10,101 |
| 1925..... | 297    | 760  | 430  | 1,771 | 2,611 | 695  | 1,702 | 613   | 563  | 9,442  |
| 1926..... | 299    | 692  | 376  | 1,854 | 2,786 | 636  | 1,655 | 774   | 453  | 9,525  |
| 1927..... | 243    | 680  | 344  | 1,884 | 2,441 | 626  | 1,514 | 721   | 335  | 8,788  |
| 1928..... | 215    | 600  | 321  | 1,950 | 2,679 | 614  | 1,458 | 692   | 375  | 8,904  |
| 1929..... | 195    | 538  | 345  | 1,921 | 1,734 | 536  | 2,677 | 789   | 339  | 9,074  |
| 1930..... | 219    | 615  | 311  | 2,075 | 1,538 | 549  | 1,317 | 811   | 432  | 8,167  |
| 1931..... | 245    | 734  | 315  | 2,173 | 2,119 | 570  | 1,303 | 981   | 526  | 8,966  |
| 1932..... | 192    | 588  | 386  | 2,881 | 2,813 | 550  | 861   | 663   | 476  | 9,410  |
| 1933..... | 231    | 462  | 381  | 3,131 | 3,706 | 481  | 788   | 704   | 447  | 10,331 |

**Receipts and Expenditures.**—The total receipts and expenditures of the provincially-controlled schools of the different provinces are published for recent years in Table 9. Figures for the receipts in British Columbia and for expenditures in Prince Edward Island, Nova Scotia, New Brunswick and Quebec are not available.

### 9.—Canadian Provincially-Controlled Schools: Receipts and Expenditures, by Provinces, 1920-33.

NOTE.—For other years back to 1901, see the 1921 Year Book, pp. 148-153 and the 1932 Year Book, pp. 845-848.

| Year.     | P.E.ISLAND <sup>1</sup> —RECEIPTS. |                   |                 | NOVA SCOTIA <sup>1</sup> —RECEIPTS. |                  |                   |                 |
|-----------|------------------------------------|-------------------|-----------------|-------------------------------------|------------------|-------------------|-----------------|
|           | Govt. Grants.                      | Local Assessment. | Total Receipts. | Govt. Grants.                       | Municipal Funds. | Local Assessment. | Total Receipts. |
| 1920..... | \$ 211,618                         | \$ 131,030        | \$ 342,648      | \$ 500,405                          | \$ 224,025       | \$ 1,978,242      | \$ 2,702,673    |
| 1925..... | 285,102                            | 167,597           | 452,699         | 658,648                             | 524,037          | 2,522,255         | 3,704,940       |
| 1930..... | 306,390                            | 189,669           | 496,059         | 916,856                             | 523,876          | 2,529,293         | 3,970,025       |
| 1931..... | 321,508                            | 189,444           | 510,952         | 1,012,681                           | 523,534          | 2,657,780         | 4,194,295       |
| 1932..... | 324,831                            | 208,477           | 533,308         | 1,073,642                           | 520,884          | 2,697,691         | 4,292,217       |
| 1933..... | 344,109                            | 182,812           | 526,921         | 1,092,520                           | 516,568          | 2,681,324         | 4,290,412       |

<sup>1</sup>Figures of expenditures not available.

**9.—Canadian Provincially-Controlled Schools: Receipts and Expenditures, by Provinces, 1920-33—continued.**

| Year.     | NEW BRUNSWICK <sup>2</sup> —RECEIPTS. |                  |                   |                 | QUEBEC <sup>1</sup> , <sup>2</sup> —RECEIPTS. |                               |                 |
|-----------|---------------------------------------|------------------|-------------------|-----------------|-----------------------------------------------|-------------------------------|-----------------|
|           | Govt. Grants.                         | Municipal Funds. | Local Assessment. | Total Receipts. | Govt. Grants.                                 | Assessment and Other Sources. | Total Receipts. |
|           | \$                                    | \$               | \$                | \$              | \$                                            | \$                            | \$              |
| 1920..... | 290,028                               | 103,629          | 1,364,915         | 1,758,572       | 2,334,108                                     | 16,867,297                    | 19,201,405      |
| 1925..... | 400,059                               | 211,885          | 2,736,430         | 3,348,374       | 3,771,317                                     | 25,209,251                    | 28,980,568      |
| 1930..... | 495,886                               | 212,172          | 2,405,890         | 3,113,948       | 5,906,164                                     | 23,656,366                    | 34,562,530      |
| 1931..... | 511,850                               | 228,117          | 2,467,510         | 3,207,477       | 5,804,746                                     | 29,350,278                    | 35,155,024      |
| 1932..... | 519,001                               | 214,008          | 2,389,050         | 3,122,059       | 5,816,736                                     | 28,666,762                    | 34,483,498      |
| 1933..... | 517,383                               | 219,909          | 2,249,768         | 2,987,060       | —                                             | —                             | —               |

**ONTARIO—RECEIPTS.<sup>1</sup>**

| Year.     | Elementary Schools. |                   |                                        |            | Secondary Schools. |            | Grand Total. |
|-----------|---------------------|-------------------|----------------------------------------|------------|--------------------|------------|--------------|
|           | Govt. Grants.       | Local Assessment. | Clergy Reserve Fund and Other Sources. | Total.     | Govt. Grants.      | Total.     |              |
|           | \$                  | \$                | \$                                     | \$         | \$                 | \$         | \$           |
| 1920..... | 1,612,837           | 18,766,800        | 9,413,521                              | 29,793,158 | 801,059            | 6,102,956  | 35,896,114   |
| 1925..... | 3,401,863           | 24,690,293        | 12,670,626                             | 40,762,782 | 1,319,737          | 13,261,826 | 54,024,608   |
| 1930..... | 3,753,499           | 29,151,682        | 14,941,612                             | 47,846,793 | 1,845,379          | 23,800,321 | 71,647,114   |
| 1931..... | 4,102,448           | 29,501,759        | 13,019,516                             | 46,623,723 | 2,171,966          | 20,410,724 | 67,034,447   |
| 1932..... | 3,847,696           | 24,061,897        | 13,691,301                             | 41,600,894 | 2,240,350          | 18,818,299 | 60,419,193   |

**ONTARIO—EXPENDITURES.<sup>1</sup>**

| Year.     | Elementary Schools. |             |                 |             |            | Secondary Schools. | Grand Total. |
|-----------|---------------------|-------------|-----------------|-------------|------------|--------------------|--------------|
|           | Teachers' Salaries. | Sites, etc. | Apparatus, etc. | Rents, etc. | Total.     |                    |              |
|           | \$                  | \$          | \$              | \$          | \$         | \$                 | \$           |
| 1920..... | 13,070,038          | 4,792,571   | 333,288         | 7,020,615   | 25,216,512 | 5,409,923          | 30,626,435   |
| 1925..... | 18,569,110          | 4,042,896   | 504,923         | 10,181,188  | 33,298,117 | 12,356,796         | 45,655,613   |
| 1930..... | 20,502,972          | 4,753,237   | —               | 15,051,056  | 40,307,265 | 21,667,826         | 61,975,091   |
| 1931..... | 20,836,250          | 3,486,593   | —               | 14,293,884  | 38,616,727 | 18,818,103         | 57,434,830   |
| 1932..... | 20,440,346          | 1,906,782   | —               | 13,346,347  | 35,693,475 | 14,877,559         | 50,571,034   |

**MANITOBA—RECEIPTS.**

| Year.     | Legislative Grants. | Municipal Taxes. | Debentures. | Promissory Notes. | Sundries. | Balance from Previous Years. | Total.     |
|-----------|---------------------|------------------|-------------|-------------------|-----------|------------------------------|------------|
|           | \$                  | \$               | \$          | \$                | \$        | \$                           | \$         |
| 1920..... | 691,981             | 4,947,186        | 402,181     | 2,208,019         | 432,110   | 436,168                      | 9,117,644  |
| 1925..... | 1,310,067           | 7,283,360        | 677,775     | 1,335,695         | 185,109   | 833,930                      | 11,625,936 |
| 1930..... | 1,285,898           | 7,821,988        | 446,115     | 1,770,920         | 219,540   | 814,368                      | 12,358,829 |
| 1931..... | 1,310,687           | 7,675,879        | 1,071,272   | 1,043,975         | 490,447   | 738,137                      | 12,330,297 |
| 1932..... | 1,299,625           | 6,834,536        | 954,641     | 723,141           | 282,641   | 612,101                      | 10,706,685 |
| 1933..... | 1,207,836           | 6,029,404        | 100,934     | 732,719           | 217,918   | 463,113                      | 8,751,924  |

<sup>1</sup>The latest figures are for 1932.    <sup>2</sup>Figures of expenditures not available.

### 9.—Canadian Provincially-Controlled Schools: Receipts and Expenditures, by Provinces, 1920-33—continued.

#### MANITOBA—EXPENDITURES.

| Year.     | Teachers' Salaries. | Building, etc. | Fuel, etc. | Repairs and Caretaking. | Secretary-Treasurers' Salaries. |
|-----------|---------------------|----------------|------------|-------------------------|---------------------------------|
|           | \$                  | \$             | \$         | \$                      | \$                              |
| 1920..... | 3,296,035           | 958,933        | 354,076    | 479,192                 | 96,088                          |
| 1925..... | 4,838,723           | 269,893        | 318,804    | 769,435                 | 150,783                         |
| 1930..... | 5,329,498           | 1,222,272      | 425,633    | 743,438                 | 167,692                         |
| 1931..... | 5,387,400           | 795,142        | 370,399    | 771,922                 | 164,197                         |
| 1932..... | 5,052,322           | 298,959        | 310,953    | 649,171                 | 216,152                         |
| 1933..... | 4,484,074           | 103,053        | 329,084    | 600,642                 | 241,466                         |

| Year.     | Principal of Debentures. | Interest on Debentures. | Promissory Notes. | Other Expenditures. | Total.     |
|-----------|--------------------------|-------------------------|-------------------|---------------------|------------|
|           | \$                       | \$                      | \$                | \$                  | \$         |
| 1920..... | 347,350                  | 439,946                 | 1,802,294         | 1,053,174           | 8,827,092  |
| 1925..... | 585,796                  | 737,070                 | 2,123,882         | 876,942             | 10,671,328 |
| 1930..... | 651,551                  | 694,929                 | 1,301,332         | 1,091,074           | 11,627,399 |
| 1931..... | 1,306,476                | 693,704                 | 1,251,946         | 974,239             | 11,715,425 |
| 1932..... | 547,085                  | 691,335                 | 962,072           | 763,797             | 9,491,846  |
| 1933..... | 517,794                  | 661,129                 | 745,333           | 667,999             | 8,350,574  |

#### SASKATCHEWAN—RECEIPTS.<sup>1</sup>

| Year.     | Elementary Schools. |                    |             |                |            | Secondary Schools. |           | Grand Total. |
|-----------|---------------------|--------------------|-------------|----------------|------------|--------------------|-----------|--------------|
|           | Govt. Grants.       | Local Assessments. | Debentures. | Other Sources. | Total.     | Govt. Grants.      | Total.    |              |
|           | \$                  | \$                 | \$          | \$             | \$         | \$                 | \$        | \$           |
| 1920..... | 1,229,934           | 8,826,175          | 1,516,765   | 2,341,770      | 13,914,643 | 107,133            | 444,791   | 14,359,434   |
| 1925..... | 1,913,643           | 10,063,559         | 720,272     | 1,927,253      | 14,624,727 | 216,102            | 664,181   | 15,288,908   |
| 1930..... | 2,406,092           | 10,163,293         | 1,410,712   | 1,906,232      | 15,886,329 | 357,812            | 1,305,703 | 17,192,032   |
| 1931..... | 2,161,290           | 7,609,132          | 239,099     | 2,177,756      | 12,187,277 | 587,953            | 1,184,725 | 13,372,002   |
| 1932..... | 1,684,906           | 6,300,054          | 33,045      | 1,782,480      | 9,800,485  | 234,247            | 952,130   | 10,752,615   |

#### SASKATCHEWAN—EXPENDITURES.<sup>1</sup>

| Year.    | Elementary Schools. |             |                                |                            |                    |                    | Secondary Schools.  |                     | Grand Total. |
|----------|---------------------|-------------|--------------------------------|----------------------------|--------------------|--------------------|---------------------|---------------------|--------------|
|          | Teachers' Salaries. | Debentures. | Notes (renewals and interest). | School Bldgs. and Grounds. | Other Expenditure. | Total Expenditure. | Teachers' Salaries. | Total. <sup>2</sup> |              |
|          | \$                  | \$          | \$                             | \$                         | \$                 | \$                 | \$                  | \$                  | \$           |
| 1920.... | 5,940,869           | 813,266     | 2,178,134                      | 2,099,350                  | 3,109,579          | 14,141,198         | 325,497             | 462,515             | 14,603,713   |
| 1925.... | 6,828,428           | 1,481,450   | 1,577,795                      | 1,320,091                  | 3,083,072          | 14,290,836         | 459,630             | 690,247             | 14,981,083   |
| 1930.... | 7,889,070           | 1,578,469   | 1,445,643                      | 2,022,775                  | 3,541,297          | 16,477,254         | 641,551             | 1,928,073           | 18,405,327   |
| 1931.... | 6,695,377           | 1,186,999   | 1,574,418                      | 533,181                    | 2,791,146          | 12,781,121         | 662,646             | 1,413,462           | 14,194,583   |
| 1932.... | 4,910,945           | 904,116     | 1,556,833                      | 252,741                    | 2,408,669          | 10,033,304         | 557,098             | 1,356,301           | 11,389,604   |

<sup>1</sup>The latest figures are for 1932.    <sup>2</sup>Totals do not include promissory notes.



**9.—Canadian Provincially-Controlled Schools: Receipts and Expenditures, by Provinces, 1920-33—concluded.**

**ALBERTA—RECEIPTS.<sup>1</sup>**

| Year.     | Govt.<br>Grants. | Local<br>Assess-<br>ments. | Deben-<br>tures. | Notes.    | Other<br>Sources. | Total.     |
|-----------|------------------|----------------------------|------------------|-----------|-------------------|------------|
|           | \$               | \$                         | \$               | \$        | \$                | \$         |
| 1920..... | 885,524          | 6,894,401                  | 865,195          | 1,048,257 | 279,776           | 10,873,153 |
| 1925..... | 1,084,879        | 8,197,098                  | 357,103          | 1,130,857 | 364,954           | 11,134,391 |
| 1930..... | 1,593,995        | 8,854,951                  | 1,335,699        | 1,491,338 | 420,808           | 13,696,791 |
| 1931..... | 1,511,776        | 8,931,880                  | 34,534           | 1,194,843 | 359,806           | 12,032,839 |
| 1932..... | 1,675,229        | 8,366,781                  | 121,054          | 864,720   | 201,212           | 11,428,996 |

**ALBERTA—EXPENDITURES.<sup>1</sup>**

| Year.     | Teachers'<br>Salaries. | Officials'<br>Salaries. | Debentures. | Notes.    | Buildings. | Other<br>Expendi-<br>tures. | Total<br>Expendi-<br>tures. |
|-----------|------------------------|-------------------------|-------------|-----------|------------|-----------------------------|-----------------------------|
|           | \$                     | \$                      | \$          | \$        | \$         | \$                          | \$                          |
| 1920..... | 4,371,508              | 258,249                 | 1,053,328   | 1,785,432 | 1,092,863  | 2,082,949                   | 10,644,329                  |
| 1925..... | 5,477,156              | 276,519                 | 1,225,741   | 1,269,913 | 630,377    | 1,947,084                   | 10,826,790                  |
| 1930..... | 6,847,412              | 338,977                 | 1,305,609   | 1,495,459 | 1,565,341  | 2,497,726                   | 14,050,524                  |
| 1931..... | 6,741,826              | 323,882                 | 1,357,191   | 1,160,095 | 477,657    | 2,061,695                   | 12,122,346                  |
| 1932..... | 6,406,997              | 305,660                 | 1,331,628   | 1,151,291 | 336,513    | 1,963,031                   | 11,495,120                  |

**BRITISH COLUMBIA<sup>2</sup>—EXPENDITURES.**

| Year.     | Local Assessments. |                                 |                 |           | Provincial<br>Govern-<br>ment. | Grand<br>Total.         |
|-----------|--------------------|---------------------------------|-----------------|-----------|--------------------------------|-------------------------|
|           | Cities.            | Rural<br>Municipi-<br>palities. | Other<br>Rural. | Total.    |                                |                         |
|           | \$                 | \$                              | \$              | \$        | \$                             | \$                      |
| 1920..... | 1,988,966          | 1,045,632                       | 279,648         | 3,314,246 | 2,155,935                      | 5,470,180               |
| 1925..... | 2,959,649          | 1,694,553                       | 451,216         | 5,105,418 | 3,223,671 <sup>3</sup>         | 8,329,089 <sup>3</sup>  |
| 1930..... | 4,549,067          | 1,120,718                       | 595,154         | 6,264,939 | 3,743,317 <sup>3</sup>         | 10,008,256 <sup>3</sup> |
| 1931..... | 4,551,940          | 1,035,843                       | 638,878         | 6,226,661 | 3,834,727 <sup>3</sup>         | 10,061,388 <sup>3</sup> |
| 1932..... | 4,130,127          | 1,000,768                       | 573,364         | 5,704,260 | 4,015,074 <sup>3</sup>         | 9,719,334 <sup>3</sup>  |
| 1933..... | 4,533,034          | 926,394                         | 632,097         | 6,091,525 | 2,849,972 <sup>3</sup>         | 8,941,497 <sup>3</sup>  |

<sup>1</sup>The latest figures are for 1932.

<sup>2</sup>Figures do not include receipts.

<sup>3</sup>Including grants to provincial university as follows: 1925, \$466,000; 1930, \$606,825; 1931, \$547,450; 1932, \$408,175; 1933, \$250,000.

### Subsection 2.—Higher Education.

The tables of this subsection are intended to include all institutions in the Dominion offering instruction in courses that are the equivalent of at least two years in advance of matriculation. The affiliated colleges of each university are shown along with it, except where they are situated in another province. In the tables following, the name of each institution is given in the language (French or English) used therein as the main language of instruction. Table 10 gives a summary of the degrees and diplomas granted by the different universities and colleges of Canada, and Table 11 shows the students attending the faculties and courses of instruction offered in each institution.

**Students of University Grade.**—The aggregate number of students in attendance was reported as 85,133. Of these 41,175 were of university grade (*i.e.*, following courses for which matriculation was prerequisite) and 34,033 were in attendance at the regular sessions. They were enrolled in 153 different colleges or universities. Of those attending the full sessions 32,217 were undergraduates, while 1,779 were graduate students, *i.e.*, working toward a higher degree in a subject in which they already held a bachelor degree. Many of the large numbers classed as undergraduates actually held degrees, but not in the subject or faculty in which they were studying during the session under consideration.

More than half of all undergraduate students, or 17,179, are in arts and pure science or what are termed "academic" courses as distinguished from "professional" courses. One or two years of arts is prerequisite to many of the professional courses—in French-language Quebec the full four years. Next to arts and science come engineering and applied science with 3,703 students; medicine, 3,009; theology, 1,832; agriculture, 1,406; education, 975; law, 902; commerce and accounting, 680; household science, 647; pharmacy, 475; dentistry, 367; public health and nursing, 280; veterinary science, 177; music, 120; forestry, 112; architecture, 157; etc.

As shown in Table 10, there were 3,954 bachelor degrees granted to men and 1,435 to women, 602 diplomas to men and 647 to women. Some of the latter represent completion of courses similar to those for bachelor degrees; after making due allowance for these and for duplication in cases where the same person may be receiving a second bachelor degree in a different branch of study, it may be concluded that there are, each year, about 3,700 new male and 1,400 new female university graduates with a bachelor degree or higher. The graduate degrees granted included 480 master degrees or licences to men and 116 to women, the term "licentiate" being used by the universities of Laval and Montreal in place of the term "master". Those completing the doctorate were 85 men and 8 women; while honorary doctor degrees were conferred on 85 men.

### 10.—Universities and Colleges of Canada: Summary of Degrees and Diplomas Granted, 1932-33.

| University or College.              | Diplomas and Certificates. |            | Bachelor. <sup>3</sup> |              | Master and Licence. <sup>4</sup> |            | Doctor. <sup>3, 5</sup> |          | Totals.      |              |              |
|-------------------------------------|----------------------------|------------|------------------------|--------------|----------------------------------|------------|-------------------------|----------|--------------|--------------|--------------|
|                                     | Men.                       | Wom-en.    | Men.                   | Wom-en.      | Men.                             | Wom-en.    | Men.                    | Wom-en.  | Men.         | Wom-en.      | Total.       |
|                                     | No.                        | No.        | No.                    | No.          | No.                              | No.        | No.                     | No.      | No.          | No.          | No.          |
| Dalhousie—King's <sup>1</sup> ..... | 13                         | 1          | 140                    | 49           | 12                               | 5          | 3                       | —        | 168          | 55           | 223          |
| Acadia.....                         | 31                         | 19         | 67                     | 41           | 8                                | 2          | 6                       | —        | 112          | 62           | 174          |
| St. Francis Xavier.....             | 15                         | 9          | 27                     | 11           | 2                                | 4          | —                       | —        | 44           | 24           | 68           |
| New Brunswick.....                  | —                          | —          | 70                     | 14           | 4                                | —          | 3                       | —        | 77           | 14           | 91           |
| Mount Allison.....                  | 28                         | 17         | 58                     | 30           | —                                | —          | —                       | —        | 86           | 47           | 133          |
| Bishop's.....                       | 16                         | —          | 26                     | —            | 1                                | 2          | 6                       | —        | 49           | 2            | 51           |
| McGill.....                         | 2                          | 45         | 334                    | 102          | 62                               | 19         | 40                      | 3        | 438          | 169          | 607          |
| Laval.....                          | 10                         | 39         | 376                    | 7            | 49                               | —          | 12                      | —        | 447          | 46           | 493          |
| Montreal.....                       | 116                        | 24         | 517                    | 31           | 97                               | —          | 3                       | —        | 733          | 55           | 788          |
| Toronto.....                        | 13                         | 149        | 882                    | 429          | 107                              | 41         | 49                      | 5        | 1,051        | 624          | 1,675        |
| Victoria <sup>2</sup> .....         | —                          | —          | 7                      | —            | —                                | —          | 5                       | —        | 12           | —            | 12           |
| Trinity <sup>2</sup> .....          | —                          | —          | 2                      | —            | 1                                | —          | 1                       | —        | 4            | —            | 4            |
| Western.....                        | 4                          | 16         | 173                    | 88           | 11                               | 4          | 5                       | —        | 193          | 108          | 301          |
| Queen's.....                        | —                          | —          | 259                    | 92           | 16                               | 7          | —                       | —        | 275          | 99           | 374          |
| Ottawa.....                         | 2                          | 4          | 36                     | 13           | 3                                | 1          | 6                       | —        | 47           | 18           | 65           |
| McMaster.....                       | 1                          | —          | 55                     | 50           | 8                                | 4          | 4                       | —        | 68           | 54           | 122          |
| Manitoba.....                       | 24                         | 9          | 264                    | 169          | 24                               | 8          | —                       | —        | 312          | 186          | 498          |
| Saskatchewan.....                   | 89                         | 74         | 158                    | 82           | 14                               | 3          | 1                       | —        | 262          | 159          | 421          |
| Alberta.....                        | 21                         | 40         | 135                    | 76           | 20                               | 5          | 5                       | —        | 181          | 121          | 302          |
| British Columbia.....               | 21                         | 66         | 201                    | 142          | 26                               | 11         | —                       | —        | 248          | 219          | 467          |
| Other Institutions.....             | 196                        | 135        | 167                    | 9            | 15                               | —          | 21                      | —        | 399          | 144          | 543          |
| <b>Totals.....</b>                  | <b>602</b>                 | <b>647</b> | <b>3,954</b>           | <b>1,411</b> | <b>400</b>                       | <b>116</b> | <b>170</b>              | <b>8</b> | <b>5,206</b> | <b>2,206</b> | <b>7,412</b> |

<sup>1</sup> All degrees except those in theology granted by Dalhousie.

<sup>2</sup> All degrees except those in theology entered opposite Toronto.

<sup>3</sup> Medical, dental and veterinary doctors included in "bachelor" column.

<sup>4</sup> The licence in the French-speaking universities is the next degree in advance of bachelor, as the master degree is in the English-speaking.

<sup>5</sup> Eighty-five of the doctor degrees were honorary.

**Students not of University Grade.**—The 41,175 students of post-matriculation standard represent little more than half of the total enrolment in universities and colleges. Many of the arts colleges, especially the classical colleges of Quebec, offer preparatory courses in which instruction is given in the high school grades, or even elementary grades. These accounted for 21,701 students, practically all of whom were in regular attendance at the full session.

The remaining 22,263 of the enrolment, 12,884 men and 9,379 women, were not following high school courses, but could not be classed as university-grade students as they had not necessarily matriculated. A minority of them attended the full session, generally studying music, household science or agriculture. The remainder were the students of summer courses in teaching methods, series of evening extension lectures, correspondence and other extra-mural courses, agricultural and other short courses.

Apart from the reported enrolment many thousands of people were reached by extension lectures that were not grouped in series and reported as courses, and still larger numbers reached by university radio broadcasts, travelling libraries, agricultural assistance and various other forms of extension service. These activities were reviewed in the "Annual Survey of Education in Canada, 1929".

**Teaching Staff.**—At pp. 858 to 861 of the 1932 Year Book there was published an analysis of the teaching staffs of universities and colleges as in 1929-30, by sex and by full time or part time. A corresponding table for 1932-33 will be found at p. 106 of the "Annual Survey of Education in Canada, 1933".

## 11.—Universities and Colleges of Canada: Full-Time Students

| No. | University or College.                         | Undergraduate. |               |              |               |           |            |                                                   |
|-----|------------------------------------------------|----------------|---------------|--------------|---------------|-----------|------------|---------------------------------------------------|
|     |                                                | Arts.          | Pure Science. | Agriculture. | Architecture. | Commerce. | Dentistry. | Education.<br>Engineering and<br>Applied Science. |
| 1   | Prince of Wales College.....                   | 57             | -             | -            | -             | -         | -          | -                                                 |
| 2   | St. Dunstan's University.....                  | 86             | -             | -            | -             | -         | -          | -                                                 |
| 3   | Acadia University.....                         | 241            | 4             | -            | -             | -         | 30         | 58                                                |
| 4   | Dalhousie University.....                      | 336            | 121           | -            | -             | 66        | 21         | 56                                                |
| 5   | University of King's College.....              | 58             | 9             | -            | -             | -         | -          | -                                                 |
| 6   | St. Francis Xavier University.....             | 157            | 4             | -            | -             | -         | 4          | 71                                                |
| 7   | St. Mary's College.....                        | 142            | 5             | -            | -             | 20        | -          | 25                                                |
| 8   | Collège Ste-Anne.....                          | 40             | -             | -            | -             | -         | -          | -                                                 |
| 9   | Mt. St. Vincent College.....                   | 120            | -             | -            | -             | -         | -          | -                                                 |
| 10  | Holy Heart Seminary.....                       | -              | -             | -            | -             | -         | -          | -                                                 |
| 11  | Pine Hill Divinity Hall.....                   | -              | -             | -            | -             | -         | -          | -                                                 |
| 12  | Nova Scotia Agricultural College.....          | -              | -             | 34           | -             | -         | -          | 95                                                |
| 13  | Nova Scotia Technical College.....             | -              | -             | -            | -             | -         | -          | -                                                 |
| 14  | Maritime College of Pharmacy.....              | -              | -             | -            | -             | -         | -          | -                                                 |
| 15  | Collège Sacré-Cœur.....                        | 59             | -             | -            | -             | 4         | -          | -                                                 |
| 16  | Université St-Joseph.....                      | 122            | -             | -            | -             | -         | -          | -                                                 |
| 17  | Mt. Allison University.....                    | 180            | 99            | -            | -             | 12        | -          | 59                                                |
| 18  | University of New Brunswick.....               | 175            | 47            | -            | -             | -         | -          | 112                                               |
| 19  | Sir George Williams College.....               | 15             | 52            | -            | -             | 9         | -          | -                                                 |
| 20  | Bishop's University.....                       | 121            | -             | -            | -             | -         | 21         | -                                                 |
| 21  | McGill University and Macdonald College.....   | 650            | 304           | 73           | 50            | 118       | 40         | 340                                               |
| 22  | Presbyterian Theological College.....          | 23             | -             | -            | -             | -         | -          | -                                                 |
| 23  | Diocesan Theological College.....              | 25             | -             | -            | -             | -         | -          | -                                                 |
| 24  | United Theological College, (1932).....        | 33             | -             | -            | -             | -         | -          | -                                                 |
| 25  | Montreal (facultés de l'université).....       | -              | -             | -            | -             | -         | 76         | -                                                 |
| 26  | Ecole Polytechnique.....                       | -              | -             | -            | -             | -         | -          | 271                                               |
| 27  | Ecole des Hautes Etudes Commerciales.....      | -              | -             | -            | -             | 122       | -          | -                                                 |
| 28  | Institut Agricole d'Oka.....                   | -              | -             | 143          | -             | -         | -          | -                                                 |
| 29  | Instituts pédagogiques.....                    | -              | -             | -            | -             | -         | -          | 156                                               |
| 30  | 15 collèges classiques.....                    | 1,898          | -             | -            | -             | -         | -          | -                                                 |
| 31  | Collège Marguerite Bourgeoys.....              | 128            | -             | -            | -             | -         | -          | -                                                 |
| 32  | Ecoles annexées.....                           | -              | -             | -            | -             | -         | -          | -                                                 |
| 33  | Laval (facultés de l'université).....          | -              | -             | -            | -             | -         | 30         | -                                                 |
| 34  | 7 grands séminaires.....                       | -              | -             | -            | -             | 21        | -          | -                                                 |
| 35  | Académie Commerciale.....                      | -              | -             | 173          | -             | -         | -          | -                                                 |
| 36  | Ste-Anne de la Pocatière.....                  | -              | -             | -            | -             | -         | -          | -                                                 |
| 37  | 13 collèges classiques.....                    | 1,423          | -             | -            | -             | -         | -          | -                                                 |
| 38  | Collège de Jésus-Marie.....                    | 10             | -             | -            | -             | -         | -          | -                                                 |
| 39  | Couvents affiliés.....                         | -              | -             | -            | -             | -         | -          | -                                                 |
| 40  | Institutions classiques non-affiliées.....     | 391            | -             | -            | -             | -         | -          | -                                                 |
| 41  | Institutions supérieures non-affiliées.....    | 41             | -             | -            | -             | -         | -          | -                                                 |
| 42  | Université d'Ottawa.....                       | 337            | -             | -            | -             | -         | -          | -                                                 |
| 43  | Collège Sacré-Cœur.....                        | 34             | -             | -            | -             | -         | -          | -                                                 |
| 44  | University of Western Ontario.....             | 971            | 4             | -            | -             | -         | -          | -                                                 |
| 45  | Assumption College.....                        | 231            | -             | -            | -             | -         | -          | -                                                 |
| 46  | Alma College.....                              | 2              | -             | -            | -             | -         | -          | -                                                 |
| 47  | Huron College.....                             | -              | -             | -            | -             | -         | -          | -                                                 |
| 48  | Ursuline College.....                          | 85             | -             | -            | -             | -         | -          | -                                                 |
| 49  | Waterloo College.....                          | 53             | -             | -            | -             | -         | -          | -                                                 |
| 50  | Queen's University.....                        | 731            | 4             | -            | -             | 158       | -          | 408                                               |
| 51  | McMaster University.....                       | 561            | -             | -            | -             | -         | -          | -                                                 |
| 52  | Royal Military College.....                    | -              | -             | -            | -             | -         | -          | 196                                               |
| 53  | Osgoode Hall Law School.....                   | -              | -             | -            | -             | -         | -          | -                                                 |
| 54  | Margaret Eaton (Physical Training) School..... | -              | -             | -            | -             | -         | -          | -                                                 |
| 55  | St. Augustine's Seminary.....                  | -              | -             | -            | -             | -         | -          | -                                                 |
| 56  | Mount Carmel College.....                      | 35             | -             | -            | -             | -         | -          | -                                                 |
| 57  | Studendat des Rédemptoristes.....              | -              | -             | -            | -             | -         | -          | -                                                 |
| 58  | St. Jerome's College.....                      | 26             | -             | -            | -             | -         | -          | -                                                 |
| 59  | St. Patrick's College.....                     | 70             | -             | -            | -             | -         | -          | -                                                 |
| 60  | St. Mary's College.....                        | 25             | -             | -            | -             | -         | -          | -                                                 |
| 61  | St. Alphonsus Seminary.....                    | -              | -             | -            | -             | -         | -          | -                                                 |
| 62  | Scolasticat, Eastview.....                     | -              | -             | -            | -             | -         | -          | -                                                 |
| 63  | Collège des Dominicains.....                   | -              | -             | -            | -             | -         | -          | -                                                 |
| 64  | St. Peter's Seminary.....                      | -              | -             | -            | -             | -         | -          | -                                                 |

For footnotes see end of table, pp. 1058-1059.



## of the Regular Session, by Faculties, 1932-33.

| Undergraduate—concluded. |                    |      |           |        |                            |                 |                 |                          |                     |         | Graduate.                     |                   |           | Others. |                    | No.    |    |
|--------------------------|--------------------|------|-----------|--------|----------------------------|-----------------|-----------------|--------------------------|---------------------|---------|-------------------------------|-------------------|-----------|---------|--------------------|--------|----|
| Forestry.                | Household Science. | Law. | Medicine. | Music. | Public Health and Nursing. | Pharmacy.       | Social Service. | Theology and Philosophy. | Veterinary Science. | Others. | Total (Excluding Duplicates). | Arts and Science. | Theology. | Total.  | Pre-matriculation. | Total. |    |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 66                            | -                 | -         | -       | 499                | 499    | 1  |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 86                            | -                 | -         | -       | 58                 | 66     | 2  |
| -                        | 56                 | -    | -         | 26     | -                          | -               | -               | 31                       | -                   | 19      | 479                           | 15                | 3         | 18      | -                  | 78     | 3  |
| -                        | 16                 | 70   | 164       | 4      | -                          | 15              | -               | -                        | -                   | -       | 869                           | 21                | -         | 21      | -                  | -      | 4  |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | 7                        | -                   | -       | 74                            | -                 | 6         | 6       | 4                  | -      | 5  |
| -                        | 6                  | -    | -         | -      | 2                          | -               | -               | -                        | -                   | -       | 236                           | 11                | -         | 12      | 21                 | 21     | 6  |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 192                           | 3                 | -         | 3       | 112                | 112    | 7  |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 40                            | -                 | -         | -       | 75                 | 75     | 8  |
| -                        | 13                 | -    | -         | 7      | 2                          | -               | -               | -                        | -                   | 15      | 157                           | -                 | 1         | 1       | -                  | -      | 9  |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | 70                       | -                   | -       | 70                            | -                 | -         | -       | -                  | -      | 10 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | 53                       | -                   | -       | 53                            | -                 | -         | -       | -                  | 1      | 11 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | 34                       | -                   | -       | 34                            | -                 | -         | -       | -                  | -      | 12 |
| -                        | -                  | -    | -         | -      | -                          | 15 <sup>s</sup> | -               | 95                       | -                   | -       | 95                            | -                 | -         | -       | -                  | -      | 13 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | 15 <sup>s</sup>          | -                   | -       | 15 <sup>s</sup>               | -                 | -         | -       | -                  | -      | 14 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | 63                       | -                   | -       | 63                            | -                 | -         | -       | 149                | 149    | 15 |
| -                        | -                  | -    | -         | -      | -                          | -               | 2               | 124                      | -                   | -       | 124                           | -                 | -         | -       | 231                | 231    | 16 |
| -                        | 37                 | -    | -         | 3      | -                          | -               | -               | 390                      | -                   | -       | 390                           | 6                 | -         | 6       | -                  | -      | 17 |
| 24                       | -                  | 19   | -         | -      | -                          | -               | -               | 377                      | -                   | -       | 377                           | -                 | -         | 5       | -                  | -      | 18 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | 76                       | -                   | -       | 76                            | -                 | -         | -       | -                  | -      | 19 |
| -                        | 71                 | 89   | 481       | 15     | 41                         | -               | -               | 18                       | -                   | -       | 160                           | -                 | -         | -       | -                  | -      | 20 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | 23                       | -                   | 38      | 2,400                         | 182               | -         | 289     | -                  | 74     | 21 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | 9                        | -                   | -       | 23                            | -                 | -         | -       | -                  | -      | 22 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | 15                       | -                   | -       | 25                            | 5                 | 5         | 5       | 10                 | 10     | 23 |
| -                        | -                  | 218  | 246       | -      | 102                        | -               | -               | 300                      | -                   | -       | 48                            | 37                | 37        | 37      | 15                 | 17     | 24 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 942                           | 288               | -         | 288     | -                  | -      | 25 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 271                           | -                 | -         | -       | -                  | -      | 26 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | 43                  | -       | 122                           | -                 | -         | -       | 35                 | 35     | 27 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 186                           | -                 | -         | -       | -                  | 52     | 28 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 156                           | -                 | -         | -       | -                  | 483    | 29 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 1,898                         | -                 | -         | -       | 3,906              | 3,906  | 30 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 128                           | -                 | -         | -       | 455                | 455    | 31 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 11                            | -                 | -         | -       | 1,158              | 1,792  | 32 |
| 20                       | 108                | 253  | 11        | -      | -                          | 11              | -               | 165                      | -                   | -       | 422                           | 68                | -         | 68      | -                  | -      | 33 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 165                           | -                 | -         | -       | -                  | -      | 34 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 21                            | -                 | -         | -       | 222                | 222    | 35 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 123                           | -                 | -         | -       | -                  | 63     | 36 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 1,423                         | -                 | -         | -       | 3,637              | 3,637  | 37 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 10                            | -                 | -         | -       | 110                | 110    | 38 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 391                           | -                 | -         | -       | 6,051              | 6,051  | 39 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | 115     | 358                           | -                 | -         | -       | 390                | 390    | 40 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 363                           | -                 | -         | -       | -                  | -      | 41 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 34                            | 10                | -         | 10      | -                  | 1,072  | 42 |
| -                        | -                  | -    | 231       | -      | 22                         | -               | -               | -                        | -                   | -       | 1,224                         | 7                 | -         | 11      | 127                | 127    | 43 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 231                           | 3                 | -         | 3       | 350                | 350    | 44 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 2                             | -                 | -         | -       | 70                 | 70     | 45 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 24                            | -                 | -         | -       | -                  | 3      | 47 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 85                            | -                 | -         | -       | -                  | 7      | 48 |
| -                        | -                  | -    | 301       | -      | -                          | -               | -               | 5                        | -                   | -       | 58                            | 6                 | -         | 6       | 17                 | 28     | 49 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | 12                       | -                   | 18      | 1,628                         | 18                | -         | 35      | -                  | -      | 50 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | 45                       | -                   | -       | 606                           | -                 | 4         | 4       | -                  | -      | 51 |
| -                        | -                  | 254  | -         | -      | -                          | -               | -               | -                        | -                   | -       | 196                           | -                 | -         | -       | -                  | -      | 52 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 254                           | -                 | -         | -       | -                  | -      | 53 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | 26      | 26                            | -                 | -         | -       | -                  | -      | 54 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 223                           | -                 | -         | -       | -                  | -      | 55 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 35                            | -                 | -         | -       | 120                | 120    | 56 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 38                            | -                 | -         | -       | -                  | -      | 57 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 28                            | -                 | -         | -       | 122                | 141    | 58 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 70                            | 1                 | -         | 1       | 400                | 400    | 59 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 25                            | -                 | -         | -       | 37                 | 37     | 60 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 44                            | -                 | -         | -       | -                  | -      | 61 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 40                            | -                 | -         | -       | -                  | -      | 62 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 74                            | -                 | -         | -       | -                  | -      | 63 |
| -                        | -                  | -    | -         | -      | -                          | -               | -               | -                        | -                   | -       | 88                            | 1                 | -         | 1       | -                  | -      | 64 |

## 11.—Universities and Colleges of Canada: Full-Time Students

| No.                               | University or College.                          | Undergraduate. |               |              |                  |           |            |                                                   |
|-----------------------------------|-------------------------------------------------|----------------|---------------|--------------|------------------|-----------|------------|---------------------------------------------------|
|                                   |                                                 | Arts.          | Pure Science. | Agriculture. | Architecture.    | Commerce. | Dentistry. | Education.<br>Engineering and<br>Applied Science. |
| 1                                 | University of Toronto <sup>1</sup> .....        | 3,093          | 4             | —            | 7                | 4         | 206        | 595                                               |
| 2                                 | Emmanuel and Victoria Colleges.....             | 1,059          | —             | —            | —                | —         | —          | —                                                 |
| 3                                 | Trinity College.....                            | 325            | —             | —            | —                | —         | —          | —                                                 |
| 4                                 | St. Michael's College.....                      | 333            | —             | —            | —                | —         | —          | —                                                 |
| 5                                 | Knox College.....                               | —              | —             | —            | —                | —         | —          | —                                                 |
| 6                                 | Wycliffe College.....                           | —              | —             | 774          | —                | —         | —          | —                                                 |
| 7                                 | Ontario Agricultural College <sup>2</sup> ..... | —              | —             | —            | —                | —         | —          | —                                                 |
| 8                                 | Ontario Veterinary College.....                 | —              | —             | —            | —                | —         | —          | —                                                 |
| 9                                 | Brandon College, (1932).....                    | 182            | —             | —            | —                | —         | —          | —                                                 |
| 10                                | University of Manitoba <sup>3</sup> .....       | 1,594          | 4             | 78           | 42               | —         | —          | 324                                               |
| 11                                | Manitoba College.....                           | —              | —             | —            | —                | —         | —          | —                                                 |
| 12                                | Wesley College.....                             | 599            | —             | —            | —                | —         | —          | —                                                 |
| 13                                | St. John's College.....                         | 104            | —             | —            | —                | —         | —          | —                                                 |
| 14                                | Collège St-Boniface.....                        | 33             | —             | —            | —                | —         | —          | —                                                 |
| 15                                | University of Saskatchewan.....                 | 853            | 4             | 62           | —                | 50        | —          | 48                                                |
| 16                                | Emmanuel College.....                           | —              | —             | —            | —                | —         | —          | 248                                               |
| 17                                | St. Andrew's College.....                       | —              | —             | —            | —                | —         | —          | —                                                 |
| 18                                | Lutheran Seminary.....                          | —              | —             | —            | —                | —         | —          | —                                                 |
| 19                                | St. Chad's College, (1932).....                 | —              | —             | —            | —                | —         | —          | —                                                 |
| 20                                | Regina College.....                             | 121            | —             | —            | —                | —         | —          | —                                                 |
| 21                                | Campion College.....                            | 80             | —             | —            | —                | —         | —          | —                                                 |
| 22                                | Outlook College.....                            | 22             | —             | —            | —                | —         | —          | —                                                 |
| 23                                | St. Peter's College.....                        | 20             | —             | —            | —                | —         | —          | —                                                 |
| 24                                | Luther College <sup>4</sup> .....               | —              | —             | —            | —                | —         | —          | —                                                 |
| 25                                | Collège Mathieu.....                            | 26             | —             | —            | —                | —         | —          | —                                                 |
| 26                                | Canadian Junior College.....                    | 32             | —             | —            | —                | 4         | —          | —                                                 |
| 27                                | Concordia College.....                          | 10             | —             | —            | —                | —         | —          | —                                                 |
| 28                                | Collège des Jésuites.....                       | 24             | —             | —            | —                | —         | —          | —                                                 |
| 29                                | Juniorat St-Jean.....                           | 10             | —             | —            | —                | —         | —          | —                                                 |
| 30                                | University of Alberta.....                      | 391            | 125           | 60           | 15               | 87        | 24         | 31                                                |
| 31                                | St. Stephen's College.....                      | —              | —             | —            | —                | —         | —          | 261                                               |
| 32                                | Mt. Royal College.....                          | 98             | —             | —            | —                | —         | —          | —                                                 |
| 33                                | University of British Columbia.....             | 1,175          | 4             | 59           | —                | 4         | —          | 64                                                |
| 34                                | Victoria College.....                           | 238            | —             | —            | —                | —         | —          | 265                                               |
| 35                                | Anglican Theological College <sup>5</sup> ..... | —              | —             | —            | —                | —         | —          | —                                                 |
| 36                                | Union College of B.C.....                       | —              | —             | —            | —                | —         | —          | —                                                 |
| 37                                | Western Pharmacy School.....                    | —              | —             | —            | —                | —         | —          | —                                                 |
| Totals, Canada <sup>6</sup> ..... |                                                 | 16,417         | 762           | 1,406        | 197 <sup>5</sup> | 680       | 367        | 975                                               |
|                                   |                                                 | —              | —             | —            | —                | —         | —          | 3,703                                             |

<sup>1</sup> Includes the arts students of Victoria, Trinity, St. Michael's, and students of the College of Pharmacy.

<sup>2</sup> The complete full-time enrolment in agriculture, including diploma and degree courses, is 793, household science, 381.

<sup>3</sup> Includes students of Manitoba Law School, and 710 in arts also registered in affiliated arts colleges.

<sup>4</sup> Included in Arts.

<sup>5</sup> To this figure should be added 50 students in the architecture section of the Ecoles des beaux Arts in Montreal and Quebec.

**Financial Statistics.**—Current expenditures were reported at \$17,722,000 in 1933, while they were \$18,743,000 in 1932, and \$20,079,000 in 1931. Capital expenditure, which had averaged nearly \$4,000,000 per year in the preceding three years, was reported at \$830,000 in 1933.

From the standpoint of financial support, there are at least three classes of institutions. First, there are those that rely on grants from provincial treasuries for their upkeep; six of the provinces have such universities and the remaining three have colleges in this class. Secondly, there are the institutions such as Dalhousie, McGill and McMaster Universities, to cite a few, that rely for their support on

of the Regular Session, by Faculties, 1932-33—concluded.

| Undergraduate—concluded. |                    |      |           |        |                            |           |                 |                          |                     |         |                               | Graduate.         |           |        | Others.            |        | No. |
|--------------------------|--------------------|------|-----------|--------|----------------------------|-----------|-----------------|--------------------------|---------------------|---------|-------------------------------|-------------------|-----------|--------|--------------------|--------|-----|
| Forestry.                | Household Science. | Law. | Medicine. | Music. | Public Health and Nursing. | Pharmacy. | Social Service. | Theology and Philosophy. | Veterinary Science. | Others. | Total (Excluding Duplicates). | Arts and Science. | Theology. | Total. | Pre-matriculation. | Total. |     |
| 68                       | 123                | 4    | 834       | -      | 46                         | 198       | 68              | -                        | -                   | -       | 6,087                         | 407               | -         | 547    | -                  | 58     | 1   |
| -                        | -                  | -    | -         | -      | -                          | -         | 65              | 23                       | -                   | -       | 1,124                         | -                 | 4         | 4      | -                  | -      | 2   |
| -                        | -                  | -    | -         | -      | -                          | -         | 348             | -                        | -                   | -       | 333                           | -                 | 2         | 2      | -                  | -      | 3   |
| -                        | -                  | -    | -         | -      | -                          | -         | 26              | 19                       | -                   | -       | 26                            | -                 | 12        | 12     | -                  | 570    | 4   |
| -                        | -                  | -    | -         | -      | -                          | -         | 19              | -                        | -                   | -       | 19                            | -                 | -         | -      | 7                  | 52     | 5   |
| -                        | -                  | -    | -         | -      | -                          | -         | 774             | -                        | -                   | -       | 774                           | -                 | -         | 7      | -                  | 7      | 6   |
| -                        | -                  | -    | -         | -      | -                          | -         | 134             | -                        | 134                 | -       | 134                           | -                 | -         | -      | -                  | 394    | 7   |
| -                        | -                  | -    | -         | -      | -                          | -         | 223             | -                        | -                   | -       | 223                           | -                 | -         | -      | -                  | -      | 8   |
| -                        | 187                | 67   | 283       | 41     | -                          | 43        | -               | 30                       | -                   | -       | 2,615                         | 38                | -         | 38     | -                  | 54     | 9   |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | 5                        | -                   | -       | 30                            | -                 | -         | -      | -                  | -      | 10  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | -                        | -                   | -       | 599                           | 2                 | -         | 2      | 64                 | 64     | 11  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | -                        | -                   | -       | 109                           | -                 | 2         | 2      | 78                 | 78     | 12  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | -                        | -                   | -       | 33                            | 9                 | -         | 9      | 125                | 167    | 13  |
| -                        | 68                 | 33   | 53        | 13     | -                          | 42        | -               | -                        | -                   | -       | 1,470                         | 45                | -         | 54     | -                  | 19     | 14  |
| -                        | -                  | -    | -         | -      | -                          | -         | 37              | -                        | -                   | -       | 37                            | -                 | -         | -      | 10                 | 10     | 15  |
| -                        | -                  | -    | -         | -      | -                          | -         | 41              | -                        | -                   | -       | 41                            | -                 | -         | -      | -                  | -      | 16  |
| -                        | -                  | -    | -         | -      | -                          | -         | 3               | -                        | -                   | -       | 3                             | -                 | -         | -      | 14                 | 25     | 17  |
| -                        | -                  | -    | -         | -      | -                          | -         | 16              | -                        | -                   | -       | 16                            | -                 | -         | -      | -                  | -      | 18  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | -                        | -                   | -       | 121                           | -                 | -         | -      | 29                 | 29     | 19  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | -                        | -                   | -       | 80                            | -                 | -         | -      | 142                | 142    | 20  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | -                        | -                   | -       | 22                            | -                 | -         | -      | 17                 | 17     | 21  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | -                        | -                   | -       | 20                            | -                 | -         | -      | 26                 | 26     | 22  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | -                        | -                   | -       | -                             | -                 | -         | -      | -                  | -      | 23  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | 2                        | -                   | -       | 26                            | -                 | -         | -      | 78                 | 82     | 24  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | -                        | -                   | -       | 38                            | -                 | -         | -      | 51                 | 51     | 25  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | -                        | -                   | -       | 10                            | -                 | -         | -      | 36                 | 36     | 26  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | -                        | -                   | -       | 24                            | -                 | -         | -      | 60                 | 60     | 27  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | -                        | -                   | -       | 10                            | -                 | -         | -      | 86                 | 86     | 28  |
| -                        | 70                 | 44   | 163       | -      | 120                        | 43        | -               | 12                       | -                   | -       | 1,378                         | 70                | -         | 107    | -                  | -      | 29  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | 23                       | -                   | -       | 23                            | -                 | -         | -      | -                  | -      | 30  |
| -                        | -                  | -    | -         | -      | 47                         | -         | -               | -                        | -                   | -       | 98                            | -                 | -         | -      | 63                 | 63     | 31  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | -                        | -                   | -       | 1,611                         | 93                | 12        | 128    | -                  | -      | 32  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | -                        | -                   | -       | 238                           | -                 | -         | -      | -                  | -      | 33  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | -                        | -                   | -       | -                             | -                 | -         | -      | -                  | -      | 34  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | 16                       | -                   | -       | 16                            | -                 | -         | -      | -                  | -      | 35  |
| -                        | -                  | -    | -         | -      | -                          | 21        | -               | -                        | -                   | -       | 21                            | -                 | -         | -      | -                  | -      | 36  |
| -                        | -                  | -    | -         | -      | -                          | -         | -               | -                        | -                   | -       | -                             | -                 | -         | -      | -                  | -      | 37  |
| 112                      | 647                | 902  | 3,009     | 120    | 280                        | 475       | 68              | 1,832                    | 177                 | 231     | 32,217                        | 1,321             | 76        | 1,779  | 20,133             | 22,978 |     |

<sup>6</sup> Excluding 3,698 duplicates in undergraduate arts.<sup>7</sup> Included with Engineering.<sup>8</sup> These students were reported by Dalhousie with which university the Maritime College of Pharmacy is affiliated.<sup>9</sup> No reports received, although the main statistics will be included with the university to which the college is affiliated.

endowments, and do not receive provincial grants. Thirdly, there are colleges either operated or controlled by religious denominations and not receiving provincial assistance; these may not have a financial endowment sufficient to carry them. These may have another type of endowment—in men, so to speak, like the University of Ottawa and other Roman Catholic colleges conducted by religious orders. Since salaries are commonly only nominal in these schools, expenses are comparatively low per pupil accommodated. The other section of the third group—mainly Protestant theological and arts colleges—commonly rely on church contributions where their financial endowments are inadequate.

## 12.—Universities and Colleges of Canada:

NOTE.—When using the bold face provincial and grand totals, the foot-

| No. | University or College.                         | Assets.                                     |                                               |                      |                   |
|-----|------------------------------------------------|---------------------------------------------|-----------------------------------------------|----------------------|-------------------|
|     |                                                | Endow-<br>ments<br>and<br>Invest-<br>ments. | Land,<br>Buildings,<br>and<br>Equip-<br>ment. | Other<br>Property.   | Total<br>Assets.  |
|     |                                                | \$                                          | \$                                            | \$                   | \$                |
| 1   | Prince of Wales.....                           | —                                           | 385,000                                       | —                    | 385,000           |
| 2   | St. Dunstan's.....                             | 35,000                                      | 315,000                                       | 26,000               | 376,000           |
| 3   | <b>Totals, Prince Edward Island.....</b>       | <b>35,000</b>                               | <b>700,000</b>                                | <b>26,000</b>        | <b>761,000</b>    |
| 4   | Acadia.....                                    | 1,245,897                                   | 1,643,679                                     | 29,338               | 2,918,914         |
| 5   | Dalhousie.....                                 | 2,717,098                                   | 2,476,644                                     | —                    | 5,193,742         |
| 6   | King's.....                                    | 162,046                                     | 491,363                                       | 32,103               | 685,512           |
| 7   | St. Francis Xavier.....                        | 452,696                                     | 528,191                                       | 427,000 <sup>1</sup> | 1,407,887         |
| 8   | St. Mary's.....                                | —                                           | 175,000                                       | —                    | 175,000           |
| 9   | Ste-Anne.....                                  | —                                           | 225,000                                       | 3,000                | 228,000           |
| 10  | Pine Hill.....                                 | 300,652                                     | 157,608                                       | 11,561               | 469,821           |
| 11  | Nova Scotia Agricultural.....                  | —                                           | 300,000                                       | —                    | 300,000           |
| 12  | Nova Scotia Technical.....                     | —                                           | 525,000                                       | —                    | 525,000           |
| 13  | Maritime Pharmacy.....                         | 8,029                                       | 4,074                                         | —                    | 12,103            |
| 14  | Holy Heart.....                                | —                                           | 300,000                                       | —                    | 300,000           |
| 15  | <b>Totals, Nova Scotia<sup>2</sup>.....</b>    | <b>4,886,418</b>                            | <b>6,826,559</b>                              | <b>503,002</b>       | <b>12,215,979</b> |
| 16  | Sacré-Cœur.....                                | —                                           | 150,000                                       | —                    | 150,000           |
| 17  | St-Joseph.....                                 | —                                           | 658,200                                       | 41,800               | 700,000           |
| 18  | Mt. Allison.....                               | 587,487                                     | 920,428                                       | —                    | 1,507,915         |
| 19  | New Brunswick.....                             | 68,742                                      | 1,250,358                                     | 3,053                | 1,322,153         |
| 20  | <b>Totals, New Brunswick.....</b>              | <b>656,229</b>                              | <b>2,978,986</b>                              | <b>44,853</b>        | <b>3,680,068</b>  |
| 21  | Sir George Williams.....                       | —                                           | 289,939                                       | —                    | 289,939           |
| 22  | Bishop's.....                                  | 810,672                                     | 273,094                                       | 67,950               | 1,151,716         |
| 23  | McGill and Macdonald.....                      | 18,738,787                                  | 13,173,758                                    | 137,149              | 32,049,694        |
| 24  | Presbyterian.....                              | 285,000                                     | 170,000                                       | —                    | 455,000           |
| 25  | Diocesan.....                                  | 396,147                                     | 109,229                                       | —                    | 505,376           |
| 26  | United, (1932).....                            | 468,292                                     | 429,500                                       | 482,000              | 1,379,792         |
| 27  | Montreal, (1932).....                          | 220,412                                     | 9,090,162                                     | 609,685              | 9,920,259         |
| 28  | Ecole Polytechnique.....                       | —                                           | 772,005                                       | —                    | 772,005           |
| 29  | Ecole des Hautes Etudes Commerciales.....      | —                                           | 901,968                                       | —                    | 901,968           |
| 30  | Oka.....                                       | —                                           | 494,190                                       | —                    | 494,190           |
| 31  | Institut péd. et Marguerite Bourgeoys.....     | —                                           | 600,000                                       | 65,000               | 665,000           |
| 32  | 15 collèges classiques.....                    | —                                           | 13,596,856                                    | —                    | 13,596,856        |
| 33  | Ecoles annexées (no report).....               | —                                           | —                                             | —                    | —                 |
| 34  | Laval.....                                     | 2,290,256                                   | 2,222,814                                     | —                    | 4,513,070         |
| 35  | Ste-Anne de la Pocatière.....                  | —                                           | 535,000                                       | —                    | 535,000           |
| 36  | 13 collèges classiques.....                    | —                                           | 9,338,772                                     | —                    | 9,338,772         |
| 37  | Collège de Jésus-Marie, (1932).....            | —                                           | 1,100,000                                     | —                    | 1,100,000         |
| 38  | Autres institutions affiliées (no report)..... | —                                           | —                                             | —                    | —                 |
| 39  | Institutions non-affiliées (no report).....    | —                                           | —                                             | —                    | —                 |
| 40  | <b>Totals, Quebec<sup>3</sup>.....</b>         | <b>23,209,566</b>                           | <b>53,097,287</b>                             | <b>1,361,784</b>     | <b>77,668,637</b> |
| 41  | Ottawa.....                                    | 170,628                                     | 1,542,809                                     | —                    | 1,713,437         |
| 42  | Sacré-Cœur, Sudbury.....                       | 20,000                                      | 200,000                                       | 40,000               | 260,000           |
| 43  | University of Western Ontario.....             | 551,943                                     | 2,218,405                                     | 11,414               | 2,781,762         |
| 44  | Assumption.....                                | —                                           | 600,000                                       | 600                  | 600,600           |
| 45  | Alma.....                                      | 9,161                                       | 252,840                                       | —                    | 261,801           |
| 46  | Huron.....                                     | 4                                           | 174,833                                       | 7,000                | 181,833           |
| 47  | Ursuline.....                                  | —                                           | 400,000                                       | —                    | 400,000           |
| 48  | Waterloo and Evangelical Lutheran.....         | 35,334                                      | 129,106                                       | —                    | 164,440           |
| 49  | Queen's.....                                   | 2,320,167                                   | 4,893,309                                     | —                    | 7,213,476         |
| 50  | McMaster.....                                  | 1,925,254                                   | 1,488,768                                     | —                    | 3,414,022         |
| 51  | Royal Military.....                            | —                                           | —                                             | —                    | —                 |
| 52  | St. Alphonsus.....                             | —                                           | 95,000                                        | —                    | 95,000            |
| 53  | Mount Carmel.....                              | —                                           | 1,250,000                                     | —                    | 1,250,000         |
| 54  | St. Jerome's.....                              | —                                           | 250,000                                       | —                    | 250,000           |
| 55  | St. Mary's.....                                | —                                           | 300,000                                       | —                    | 300,000           |
| 56  | St. Peter's.....                               | 128,016                                     | 1,012,087                                     | 18,000               | 1,158,103         |
| 57  | Four seminaries (no report).....               | —                                           | —                                             | —                    | —                 |

For footnotes see end of table, pp. 1062-1063.





## 12.—Universities and Colleges of Canada:

NOTE.—When using the bold face provincial and grand totals, the foot-

| No. | University or College.                    | Assets.                     |                                  |                  |                    |
|-----|-------------------------------------------|-----------------------------|----------------------------------|------------------|--------------------|
|     |                                           | Endowments and Investments. | Lands, Buildings, and Equipment. | Other Property.  | Total Assets.      |
|     |                                           | \$                          | \$                               | \$               | \$                 |
| 1   | University of Toronto <sup>1</sup> .....  | 4                           | 19,265,896                       | —                | 19,265,896         |
| 2   | Victoria University.....                  | 3,103,871                   | 2,463,649                        | —                | 5,567,520          |
| 3   | Trinity.....                              | 826,004                     | 1,077,336                        | 77,604           | 1,980,944          |
| 4   | St. Michael's.....                        | —                           | —                                | —                | —                  |
| 5   | Knox.....                                 | 353,223                     | 921,021                          | —                | 1,274,244          |
| 6   | Wycliffe.....                             | —                           | —                                | —                | —                  |
| 7   | Pharmacy.....                             | 7,600                       | 62,905                           | 29,500           | 100,005            |
| 8   | Ontario Agricultural.....                 | —                           | —                                | —                | —                  |
| 9   | Ontario Veterinary.....                   | —                           | 275,000                          | 10,000           | 285,000            |
| 10  | <b>Totals, Ontario<sup>2</sup></b> .....  | <b>9,451,201</b>            | <b>38,872,764</b>                | <b>194,118</b>   | <b>48,518,083</b>  |
| 11  | Brandon College, (1932).....              | 110,321                     | 255,708                          | —                | 366,029            |
| 12  | University of Manitoba.....               | 6                           | 7,603,368                        | —                | 7,603,368          |
| 13  | Manitoba Law School.....                  | —                           | 5,000                            | —                | 5,000              |
| 14  | Manitoba College.....                     | 200,000                     | —                                | —                | 200,000            |
| 15  | Wesley.....                               | 292,940                     | 744,912                          | —                | 1,037,852          |
| 16  | St. John's.....                           | 6                           | 301,000                          | 82,250           | 383,250            |
| 17  | St-Boniface.....                          | —                           | 520,000                          | —                | 520,000            |
| 18  | <b>Totals, Manitoba<sup>3</sup></b> ..... | <b>603,261</b>              | <b>9,429,988</b>                 | <b>82,250</b>    | <b>10,115,499</b>  |
| 19  | University of Saskatchewan.....           | 29,856                      | 4,193,495                        | 192,288          | 4,415,639          |
| 20  | Emmanuel.....                             | 13,319                      | 100,000                          | —                | 113,319            |
| 21  | St. Andrew's.....                         | 5,300                       | 189,470                          | 700              | 195,370            |
| 22  | Lutheran Seminary.....                    | —                           | 67,457                           | —                | 67,457             |
| 23  | St. Chad's, (1932).....                   | 16,122                      | 30,000                           | —                | 46,122             |
| 24  | Regina.....                               | —                           | 821,615                          | 1,000            | 822,615            |
| 25  | Campion.....                              | —                           | 270,000                          | —                | 270,000            |
| 26  | Outlook.....                              | 1,227                       | 69,563                           | 12,833           | 83,623             |
| 27  | St. Peter's.....                          | 17,491                      | 104,000                          | —                | 117,491            |
| 28  | Collège Mathieu.....                      | —                           | 150,000                          | 10,000           | 160,000            |
| 29  | <b>Totals, Saskatchewan</b> .....         | <b>83,315</b>               | <b>5,991,500</b>                 | <b>216,821</b>   | <b>6,291,636</b>   |
| 30  | Canadian Junior.....                      | —                           | 199,371                          | —                | 199,371            |
| 31  | Concordia College.....                    | —                           | 190,000                          | —                | 190,000            |
| 32  | Collège des Jésuites.....                 | —                           | 250,000                          | 5,000            | 255,000            |
| 33  | Juniorat St-Jean.....                     | 5,000                       | 225,000                          | —                | 230,000            |
| 34  | University of Alberta.....                | 500,000                     | 4,582,474                        | 21,915           | 5,104,389          |
| 35  | St. Stephen's.....                        | 78,000                      | 142,000                          | 22,000           | 242,000            |
| 36  | Mt. Royal.....                            | 500                         | 110,969                          | —                | 111,469            |
| 37  | <b>Totals, Alberta</b> .....              | <b>583,500</b>              | <b>5,699,814</b>                 | <b>48,915</b>    | <b>6,332,229</b>   |
| 38  | Western Pharmacy.....                     | —                           | 20,000                           | 3,000            | 23,000             |
| 39  | University of British Columbia.....       | 48,500                      | 3,853,774                        | 265,823          | 4,168,097          |
| 40  | Victoria.....                             | —                           | 90,550                           | —                | 90,550             |
| 41  | Anglican.....                             | —                           | —                                | —                | —                  |
| 42  | Union.....                                | 17,000                      | 130,000                          | —                | 147,000            |
| 43  | <b>Totals, British Columbia</b> .....     | <b>65,500</b>               | <b>4,094,324</b>                 | <b>268,823</b>   | <b>4,428,647</b>   |
| 44  | <b>Totals, Canada<sup>4</sup></b> .....   | <b>39,573,990</b>           | <b>127,691,222</b>               | <b>2,746,566</b> | <b>170,011,778</b> |

<sup>1</sup>Property in the United States.<sup>2</sup>Exclusive of figures for Mt. St. Vincent College.<sup>3</sup>The source of capital expenditure is not shown under "Receipts".<sup>4</sup>Included with lands, etc.

## Financial Statistics, 1932-33—concluded.

notes to the items which influence them should be taken into consideration.

| Receipts.          |                                        |                         |                                  |               | Expenditures. |          |            | No. |
|--------------------|----------------------------------------|-------------------------|----------------------------------|---------------|---------------|----------|------------|-----|
| From Invest-ments. | From Govern-ments and Munici-palities. | From Fees. <sup>7</sup> | From Other Sources. <sup>8</sup> | Total Income. | Current.      | Capital. | Total.     |     |
| \$                 | \$                                     | \$                      | \$                               | \$            | \$            | \$       | \$         |     |
| 152,781            | 1,517,000                              | 698,489                 | 262,012                          | 2,630,282     | 2,668,251     | 346,477  | 3,014,728  | 1   |
| 161,590            | —                                      | 87,675                  | 181,095                          | 430,360       | 427,469       | 1,156    | 428,625    | 2   |
| 25,504             | —                                      | 33,106                  | 134,928                          | 193,539       | 193,539       | —        | 193,539    | 3   |
| 13,649             | —                                      | —                       | 16,759                           | 30,408        | 26,998        | —        | 26,998     | 4   |
| 8,589              | —                                      | —                       | —                                | —             | —             | —        | —          | 5   |
| —                  | —                                      | 57,865                  | —                                | 66,454        | 60,713        | —        | 60,713     | 6   |
| —                  | 516,222                                | 49,974                  | 158,907                          | 725,103       | 725,127       | —        | 725,127    | 7   |
| —                  | 52,050                                 | 12,189                  | 1,902                            | 66,140        | 50,000        | —        | 50,000     | 8   |
| 635,120            | 3,102,259                              | 1,726,706               | 1,186,316                        | 6,650,401     | 6,560,015     | 434,411  | 6,994,426  | 9   |
| 1,844              | —                                      | 15,949                  | 27,969                           | 45,762        | 60,650        | —        | 60,650     | 10  |
| —                  | 400,000                                | 338,193                 | 18,542                           | 756,735       | 732,789       | —        | 732,789    | 11  |
| —                  | —                                      | 8,991                   | 4,140                            | 13,131        | 12,612        | —        | 12,612     | 12  |
| 4,482              | —                                      | 200                     | 4,682                            | 9,364         | 19,276        | —        | 19,276     | 13  |
| 18,352             | —                                      | 44,037                  | 47,560                           | 109,949       | 110,144       | —        | 110,144    | 14  |
| 311                | —                                      | 12,200                  | 8,231                            | 20,842        | 20,053        | —        | 20,053     | 15  |
| —                  | —                                      | —                       | 30,461                           | 30,461        | 34,473        | —        | 34,473     | 16  |
| 24,989             | 400,000                                | 419,570                 | 141,685                          | 986,244       | 989,997       | —        | 989,997    | 17  |
| 1,624              | 490,364                                | 138,702                 | 104,961                          | 735,651       | 713,207       | —        | 713,207    | 18  |
| 1,000              | —                                      | —                       | 50,000                           | 51,000        | 51,000        | —        | 51,000     | 19  |
| 215                | —                                      | 109                     | 36,216                           | 36,540        | 33,500        | 3,000    | 36,500     | 20  |
| —                  | —                                      | 84                      | 8,718                            | 8,802         | 7,996         | 705      | 8,701      | 21  |
| 881                | —                                      | 800                     | 6,530                            | 8,211         | 8,354         | —        | 8,354      | 22  |
| —                  | —                                      | 32,835                  | 30,077                           | 62,912        | 89,795        | —        | 89,795     | 23  |
| —                  | —                                      | 3,000                   | 12,635                           | 15,635        | 15,128        | 1,003    | 16,131     | 24  |
| —                  | —                                      | 2,500                   | 7,224                            | 9,664         | 9,664         | 60       | 9,724      | 25  |
| 500                | —                                      | 637                     | 10,987                           | 12,124        | 9,021         | —        | 9,021      | 26  |
| —                  | —                                      | —                       | 21,260                           | 21,260        | 22,368        | 6,000    | 28,368     | 27  |
| 4,220              | 490,364                                | 178,667                 | 288,608                          | 961,859       | 960,033       | 10,768   | 970,801    | 28  |
| —                  | —                                      | 32,905                  | 27,103                           | 60,008        | 61,335        | 3,975    | 65,310     | 29  |
| —                  | —                                      | —                       | 13,020                           | 13,020        | 13,020        | —        | 13,020     | 30  |
| —                  | —                                      | 4,900                   | 22,160                           | 27,060        | 30,610        | —        | 30,610     | 31  |
| 307                | —                                      | —                       | 14,614                           | 14,921        | 15,295        | —        | 15,295     | 32  |
| 25,000             | 540,388                                | 158,174                 | 38,433                           | 761,995       | 760,964       | —        | 760,964    | 33  |
| 3,900              | —                                      | —                       | 34,355                           | 38,255        | 40,655        | —        | 40,655     | 34  |
| —                  | —                                      | 27,317                  | 27,121                           | 54,438        | 51,482        | —        | 51,482     | 35  |
| 29,207             | 540,388                                | 233,296                 | 176,806                          | 969,697       | 973,356       | 3,975    | 977,331    | 36  |
| —                  | —                                      | —                       | —                                | —             | —             | —        | —          | 37  |
| 4,406              | 250,000                                | 234,065                 | 65,520                           | 553,991       | 568,127       | 25,485   | 593,612    | 38  |
| —                  | 10,898                                 | 23,344                  | —                                | 34,242        | 34,242        | —        | 34,242     | 39  |
| —                  | —                                      | —                       | —                                | —             | —             | —        | —          | 40  |
| 387                | —                                      | —                       | 23,334                           | 23,721        | 26,621        | —        | 26,621     | 41  |
| 4,793              | 260,898                                | 257,409                 | 88,854                           | 611,954       | 628,990       | 25,485   | 654,475    | 42  |
| 1,961,678          | 5,980,654                              | 4,268,943               | 5,229,683                        | 17,440,958    | 17,721,662    | 830,336  | 18,551,998 | 43  |
|                    |                                        |                         |                                  |               |               |          |            | 44  |

<sup>6</sup>Not evaluated.<sup>7</sup>Uncertain.<sup>8</sup>Other than board and lodging.<sup>9</sup>Including board and lodging.<sup>10</sup>See headnote to table.

## Section 2.—Scientific and Industrial Research in Canada.

This section has, in past years, dealt with the history of scientific and industrial research in Canada and has included subsections outlining the organization and work of the National Research Council and of those provincial councils and private institutions which are primarily interested in research work. During the past year, the operations of these organizations continued to be conducted along the lines described in previous issues of the Year Book, and to conserve space the section is not reprinted in this edition. The reader is referred in this connection to pp. 866 to 872 of the 1932 Year Book.

An important event in the history of scientific research in Canada was the opening of the new building of the National Research Council on Aug. 10, 1932.

## Section 3.—The Libraries of Canada.\*

It is more than three and a quarter centuries since the first known library came to what is now the Dominion of Canada—the library brought by Marc Lescarbot to Port Royal in 1606. A library was connected with Laval College at its establishment in 1663, although it was many years later before this institution became important. During the next century record is found of several libraries in Quebec city; one of these, a Jesuit library mentioned by Peter Kalm, the Swedish traveller (its existence is recorded again in 1789), was afterwards sold to the *Quebec Gazette* and again sold in 1851 to the Library of Parliament. The volumes, which have survived the ravages of time and two fires, may still be found on Parliament Hill at Ottawa. Two other libraries founded in Quebec in the 18th century were a subscription library established in 1779 and the Quebec Legislative Library established in 1792. Four years later a public library was opened in Montreal. The Legislative Library of Upper Canada was established in 1791. The Legislative Library of Prince Edward Island is somewhat older, as it was founded in 1773. The King's College Library, located until recently at Windsor, Nova Scotia, and now at Halifax, dates from 1800, the year of the founding of the oldest existing public library in the Dominion, the library at Niagara. During the first quarter of the 19th century there were several libraries founded in Nova Scotia, several in Montreal, and at least one in Western Canada.

In the first quarter of the 20th century there was much activity in the establishment of libraries for public use. Of the 1,110 existing Canadian libraries for which statistics have been secured, 256 are known to have been established during that period, without regard to the fact that the dates of founding have not been secured for all libraries and the certainty that for one reason or another some libraries have not survived.

**Public Libraries.**—Public libraries, to the number of 637 in 1933, report a circulation of 22,126,000 books, exclusive of the loans for reading-room or reference-room use. These figures do not include "travelling libraries", "open-shelf libraries", the Carnegie district demonstrations in the Fraser Valley of British Columbia and in Prince Edward Island, or the county libraries of the Nova Scotia Department of Education. The public libraries as at present conducted are primarily urban institutions; the total urban population of Canada in 1931 was 5,572,058, while the population in centres served by the 637 libraries was about 4,424,000. Only in

\*The latest biennial Survey of Libraries in Canada is for 1933 and may be obtained on application to the Dominion Statistician.



Ontario and British Columbia do the numbers served approximate the total urban populations. The number of borrowers registered at the end of 1933 was 1,101,000, about 25 p.c. of the population in communities served, just over 10 p.c. of the total Canadian population in 1931, or 13.5 p.c. of those over ten years of age.

**13.—Summary Statistics of Public Libraries, by Provinces, 1933, with totals for 1931.**

| Province.                 | Libraries. | Volumes.         | Circulation.      | Borrowers registered at end of year. | Expenditure on Books and Periodicals. |
|---------------------------|------------|------------------|-------------------|--------------------------------------|---------------------------------------|
|                           | No.        | No.              | No.               | No.                                  | \$                                    |
| Prince Edward Island..... | 2          | 9,000            | 62,471            | 4,271                                | 327                                   |
| Nova Scotia.....          | 15         | 108,321          | 193,996           | 14,468                               | 3,014                                 |
| New Brunswick.....        | 9          | 91,535           | 293,323           | 22,999                               | 3,535                                 |
| Quebec.....               | 25         | 600,811          | 693,123           | 24,189                               | 29,680                                |
| Ontario.....              | 468        | 3,192,075        | 15,137,418        | 761,592                              | 285,955                               |
| Manitoba.....             | 21         | 102,306          | 763,241           | 50,841                               | 13,121                                |
| Saskatchewan.....         | 41         | 175,678          | 1,497,167         | 63,206                               | 25,446                                |
| Alberta.....              | 22         | 216,519          | 1,666,955         | 64,995                               | 27,014                                |
| British Columbia.....     | 31         | 240,808          | 1,807,757         | 94,103                               | 32,239                                |
| Yukon.....                | 3          | 13,928           | 10,889            | 259                                  | 811                                   |
| <b>Canada, 1933.....</b>  | <b>637</b> | <b>4,759,981</b> | <b>22,126,340</b> | <b>1,100,923</b>                     | <b>421,142</b>                        |
| <b>Canada, 1931.....</b>  | <b>622</b> | <b>4,499,712</b> | <b>20,904,924</b> | <b>-</b>                             | <b>509,322</b>                        |

**University, College and Professional School Libraries.**—In 1933 this group included 232 libraries in advanced educational institutions having a full-time enrolment of 64,500 students and a teaching staff of about 7,000. The total contents of these libraries were 3,856,713 volumes and 398,000 pamphlets. The two largest of these libraries were those of McGill University with 455,000 volumes and the University of Toronto with 290,000 volumes.

**Business, Technical Society and Government Libraries.**—These included 149 libraries with about 2,210,000 volumes and 497,000 pamphlets. Nine of the ten largest (over 50,000 volumes) were Dominion or Provincial Government libraries. The largest was the Library of Parliament in Ottawa, reporting 365,000 volumes and 65,000 pamphlets. British Columbia reported the largest legislative library among the provinces, with 200,000 volumes and 100,000 pamphlets.

**Library Schools.**—Schools for the training of librarians exist at McGill University and at the University of Toronto. The former gives a short six weeks course of training as well as a degree course giving the degree of Bachelor of Library Science after a one-year course to those who have already a bachelor degree. The latter offers a one-year course in library training, the minimum requirement for admission to the course being honour matriculation. Acadia University and the University of Western Ontario give two courses in library science which may be taken for the degree of Bachelor of Arts. In the latter, one of the courses is prescribed for all first-year students.

#### Section 4.—Art in Canada.

An article entitled "The Development of the Fine Arts in Canada", contributed by Newton MacTavish, M.A., D. Litt., appeared at pp. 995-1009 of the 1931 Year Book and a shorter article, dealing more particularly with the National Art Gallery at pp. 886-888 of the 1924 Year Book.

## CHAPTER XXVI.—PUBLIC HEALTH AND BENEVOLENCE.

The rapid increase in the numbers committed to our various institutions, such as mental hospitals for the insane, feeble-minded and epileptic; the alleged increase in juvenile crime and the extension of social work in this field; the increasing number of institutions caring for the aged and incurable, as well as for dependent, neglected and handicapped children, have been marked features of the twentieth century. In this new and important field statistical data are collected and results analysed and published in leading countries. Although the difficulties encountered in building up statistics with a uniform application have been many, these statistics are now being collected on a Dominion-wide basis either at the decennial census or by annual returns.

In any comprehensive study of the situation it is essential that, besides health and hospitalization records, social statistics should also receive attention. Statistics regarding the number of children placed in foster homes, free family homes, number of children adopted, number of children cared for in day nurseries, institutional care of juvenile delinquents, numbers of dependent, neglected and handicapped children receiving institutional care, as well as fuller and more accurate data concerning inmates in our mental institutions, institutions for the feeble-minded, county asylums, county almshouses, poorhouses, etc., are becoming absolutely necessary to the proper drafting of social legislation and in order to deal with the problems of civilization, growing more complex day by day.

As public and private charity work together for the amelioration of conditions among the dependent and neglected, the proper treatment of defectives and the reclamation of the delinquent, the problem is made more difficult of statistical measurement, although the tendency to-day in most parts of Canada is to remove the responsibility of social work from the shoulders of individuals and private agencies and to regard it as more in the nature of a public responsibility. The growth in recent years of cordial relationships between governmental bodies and social welfare workers in the fields of school care and child welfare movements is manifested in the number of child welfare Acts in force in the various provinces of Canada.

### Section 1.—Administration.

In Canada, speaking generally, the administration of public health activities and the establishment and maintenance of institutions is in the hands of the Provincial Governments, under the powers given them in Sec. 92 of the B.N.A. Act, 1867. Under their control, municipalities, societies and individuals generally initiate charitable and humane efforts, depending on the Government to some extent for financial aid and for competent uniform inspection of methods and standards. Apart, however, from the actual organization of provincial health departments and of the administrative bodies charged with the management of hospitals and other such institutions, particular attention is given to the same branches of public health work in all the provinces. Important, and reflecting most clearly the benefits accruing from such work, are the provisions for medical inspection of school children. These are carried out in some cases by the district or sub-district medical health officers, and in others by public health nurses whose activities are confined to this

work alone. In addition to the continual supervision exercised over the health of the children, expert advice and assistance are supplied freely to children, teachers and parents. In many cases dental inspection is provided for. While this work has been carried on upon a considerable scale for only a few years, great benefits have already resulted from it, notably general improvement in health and sanitary conditions and in the control and prevention of epidemics.

Exercising particular jurisdiction over some phases of the general health of the people of the Dominion is the Department of Health of the Dominion Government, while the Dominion Council of Health acts as a clearing house on many important questions related to the health of the people. This Council consists of the Deputy Minister of the Dominion Department of Pensions and National Health as chairman, the chief executive officer of the provincial department or board of health of each province, together with such other persons, not exceeding five, as may be appointed by the Governor in Council to hold office for three years. Of these appointed members, four have in the past represented agriculture, labour, rural women's work and social service, and child welfare, while the fifth member is a scientific adviser on public health matters. (A fuller description of this Council will be found at pp. 908-909 of the 1926 Year Book.)

The public health activities of the Dominion Government were described at pp. 876-879 of the 1932 Year Book, and those of the various Provincial Governments at pp. 879-883 of the same volume. For a brief description of the organization and activities of the Red Cross Society and of the Victorian Order of Nurses, readers may refer to p. 923 of the Year Book for 1922-23. Finally, a statement regarding Mothers' Allowances showing the scales of payments and the methods of administration was published at pp. 935-936 of the 1925 Year Book.

## Section 2.—Institutional Statistics.\*

The most familiar of all the public institutions established to administer and foster the general health of the community is the general hospital common to all cities and towns of any considerable population, and found also in the more prosperous rural districts. Such hospitals are generally erected and supported by the municipality, their actual administration being in the hands of a board of trustees; their revenue, in addition to that provided by the municipality, is derived in the main from grants from the Provincial Governments, from donations of individuals and societies, and from patients fees. Admission and treatment are free to all deserving persons who apply for them and whose resources are so limited as to prevent their otherwise receiving proper medical attention, while it is more or less generally expected of others that payments for services shall be made in proportion to costs and the ability of patients to defray them. Second in importance are the houses of refuge and orphanages—homes where destitute adults and homeless children are taken in, fed and clothed until they can support themselves or until homes are found for them elsewhere. Orphans' homes are found in practically every urban and rural community of any size, while refuges or homes for the aged are supported by the larger centres and by county municipalities. Asylums for the insane, also found in all the provinces, differ from the foregoing types in that they are in general owned, supported and administered entirely by the provinces. In Nova Scotia, however, the insane of each county, together with the inmates of the refuges and orphanages, are in most instances cared for in one institution.

\*This section has been revised by J. C. Brady, Official in Charge of Census of Institutions, Dominion Bureau of Statistics.



Other institutions supported by the public include: isolation hospitals, maternity hospitals, homes for the deaf, dumb and blind, homes for incurables, infirmaries, homes for epileptics, lazarettos for lepers and tuberculosis sanatoria.

Throughout the Dominion many other more or less similar institutions exist whose nature is more independent than that of the types mentioned above. These institutions do not receive Provincial Government grants and are not in all cases subject to inspection.

Under authority granted by the Dominion Government in 1930, the Dominion Bureau of Statistics, through its newly created branch of Census of Institutions, now collects annual statistics for all hospitals in Canada, including mental institutions and homes for incurables.

### Subsection 1.—Hospitals, other than Mental.

The great majority of hospitals are public hospitals which are either under municipal control or under private boards of management. These hospitals are assisted in their care of indigent patients by municipal and provincial grants. In addition there are: private hospitals which do not receive public grants; hospitals conducted by various religious orders; convalescent hospitals; hospitals for incurables; tuberculosis sanatoria; Red Cross hospitals and out-posts; special hospitals; lazarettos for the segregation and treatment of persons afflicted with leprosy; and hospitals for the treatment of mental and nervous diseases which are, generally speaking, maintained by the provinces. The care of persons suffering from communicable diseases is the responsibility of the various municipalities.

There are also a limited number of hospitals under Dominion Government administration, *e.g.*, those in connection with ex-service men, military forces, marine, quarantine and immigration.

The modern hospital is at once a battlefield between life and death, an institution for the practice of medicine and surgery and, viewed broadly, a financial enterprise which exceeds in magnitude many nation-wide industries. There has been a remarkable growth of public interest in the work of our hospitals in recent years, and hospital statistics have become a necessity to the study of certain branches of present-day social economics.

The total number of various hospitals, other than mental hospitals, in operation in Canada during 1932 was 860, divided into three main groups, namely: public, private and those operated by the Dominion Government. The public hospitals numbered 611, made up of 460 general, 21 women's, 10 pædiatric, 3 orthopædic, 14 isolation, 6 convalescent, 34 Red Cross, 40 tuberculosis, 22 incurable\* and 1 special. Private hospitals numbered 214. The 35 hospitals operated by the Dominion Government were made up of: 8 for war veterans, 7 quarantine and immigration, 2 marine and 2 leper hospitals under the direction of the Department of Pensions and National Health; 9 military hospitals under the Department of National Defence; and 7 hospitals for Indians under the Department of Indian Affairs.†

During the year 1933, the total number of operating hospitals was 874, an increase of 14, classified as follows: public hospitals 605, a decrease of 6, (457 were general, 20 women's, 10 pædiatric, 3 orthopædic, 14 isolation, 6 convalescent, 34 tuberculosis, 36 Red Cross, 23 incurable,\* and 2 special); private hospitals numbered 238, an increase of 24; Dominion hospitals, 31 in number, (8 for war veterans, 4 quarantine and immigration, 1 marine and 2 leper under the Department of Pensions

\*Figures for hospitals for incurables for 1932, are shown separately in Table 7, but are included among other public hospitals for the year 1933 in Tables 1, 2 and 3.

†A complete list of all hospitals in Canada giving name, location, type, bed accommodation, etc., will be found in the new Hospital Directory for Canada, 1932, issued by the Dominion Bureau of Statistics.



and National Health; 9 military under the Department of National Defence and 7 under the Department of Indian Affairs). There were 3 quarantine and immigration and 1 marine hospitals closed during the year.\*

Summary statistics of the hospitals of the Dominion, other than mental hospitals, are presented for the years 1932 and 1933 in Table 1, while bed capacities of the hospitals in each province are given in Table 2, and detailed statistics of staff and patients, receipts and expenditures are shown by provinces in Table 3.

1.—Summary Statistics of Hospitals in Canada, Excluding Mental Hospitals, calendar years 1932 and 1933.

| Item.                            | 1932.     |                     |               |                |                     | 1933. <sup>1</sup> |                     |               |                |                     |
|----------------------------------|-----------|---------------------|---------------|----------------|---------------------|--------------------|---------------------|---------------|----------------|---------------------|
|                                  | Public.   |                     | Pri-<br>vate. | Domi-<br>nion. | Total. <sup>2</sup> | Public.            |                     | Pri-<br>vate. | Domi-<br>nion. | Total. <sup>3</sup> |
|                                  | General.  | Other. <sup>2</sup> |               |                |                     | General.           | Other. <sup>3</sup> |               |                |                     |
|                                  | No.       | No.                 | No.           | No.            | No.                 | No.                | No.                 | No.           | No.            | No.                 |
| Number of hospitals...           | 460       | 129                 | 214           | 35             | 838                 | 457                | 148                 | 238           | 31             | 874                 |
| Bed capacities.....              | 33,548    | 12,287              | 2,315         | 3,427          | 51,577              | 36,709             | 16,676              | 2,740         | 2,438          | 58,563              |
| Patients admitted..              | 494,535   | 62,065              | 18,249        | 13,912         | 588,761             | 504,247            | 58,060              | 19,926        | 13,745         | 595,978             |
| Live births.....                 | 55,803    | 7,858               | 3,424         | 209            | 67,294              | 55,042             | 8,042               | 3,669         | 223            | 66,976              |
| Infant collect-<br>ive stay*.... | 637,461   | 223,012             | 42,093        | 2,573          | 905,139             | 629,567            | 237,767             | 43,065        | 2,593          | 912,992             |
| Adult collect-<br>ive stay*....  | 7,793,980 | 3,214,155           | 309,394       | 731,394        | 12,048,923          | 7,897,635          | 4,771,929           | 317,950       | 421,453        | 13,408,967          |
| All deaths.....                  | 22,980    | 3,472               | 583           | 307            | 27,342              | 22,915             | 4,100               | 584           | 271            | 27,870              |

<sup>1</sup> 1933 figures subject to revision. <sup>2</sup> Exclusive of hospitals for incurables. <sup>3</sup> Including hospitals for incurables. \*In days.

The total hospital receipts for 1932, of the hospitals included in the above table were \$39,534,801, of which \$35,063,238 was classified as maintenance receipts, including government and municipal grants amounting to \$16,659,550, patients fees amounting to \$14,994,930 and receipts from other sources, \$3,408,758.

Expenditures for these hospitals, including those for maintenance and improvement, amounted to \$45,297,312 in 1932, of which \$37,228,757 was classified as expenditures for maintenance. These figures included salaries and wages \$15,650,912, provisions \$6,959,098, fuel, power, light and water \$3,556,535, and other expenditures for maintenance \$11,062,212.†

\*See footnote†, page 1068.

†Financial statistics for hospitals were not collected for 1933 pending the report of the financial committee on hospital accounting.

2.—Bed Capacities of Hospitals by Provinces, Excluding Mental Hospitals, calendar years 1932 and 1933.

| Province.            | 1932.         |                     |               |                |               | 1933. <sup>1</sup> |                     |               |                |               |
|----------------------|---------------|---------------------|---------------|----------------|---------------|--------------------|---------------------|---------------|----------------|---------------|
|                      | Public.       |                     | Pri-<br>vate. | Domi-<br>nion. | Total.        | Public.            |                     | Pri-<br>vate. | Domi-<br>nion. | Total.        |
|                      | General.      | Other. <sup>2</sup> |               |                |               | General.           | Other. <sup>2</sup> |               |                |               |
|                      | No.           | No.                 | No.           | No.            | No.           | No.                | No.                 | No.           | No.            | No.           |
| P.E. Island..        | 180           | 50                  | -             | -              | 230           | 232                | 54                  | -             | -              | 286           |
| Nova Scotia..        | 1,357         | 628                 | 127           | 454            | 2,566         | 1,359              | 621                 | 224           | 394            | 2,598         |
| N. Brunswick         | 1,288         | 424                 | 44            | 153            | 1,909         | 1,273              | 471                 | 44            | 159            | 1,947         |
| Quebec.....          | 6,562         | 3,234               | 528           | 802            | 11,126        | 9,254              | 5,731               | 542           | 348            | 15,875        |
| Ontario.....         | 11,128        | 4,770               | 798           | 1,248          | 17,944        | 11,265             | 5,746               | 1,029         | 756            | 18,796        |
| Manitoba....         | 2,228         | 1,280               | 80            | 254            | 3,842         | 2,271              | 1,531               | 53            | 256            | 4,111         |
| Saskatchewan         | 2,958         | 880                 | 131           | 27             | 3,996         | 3,068              | 1,082               | 238           | 33             | 4,421         |
| Alberta.....         | 3,511         | 503                 | 236           | 222            | 4,472         | 3,455              | 738                 | 271           | 228            | 4,692         |
| British Columbia.    | 4,177         | 518                 | 371           | 267            | 5,333         | 4,322              | 702                 | 339           | 264            | 5,627         |
| N.W.T. and Yukon.... | 159           | -                   | -             | -              | 159           | 210                | -                   | -             | -              | 210           |
| <b>Canada.....</b>   | <b>33,548</b> | <b>12,287</b>       | <b>2,315</b>  | <b>3,427</b>   | <b>51,577</b> | <b>36,709</b>      | <b>16,676</b>       | <b>2,740</b>  | <b>2,438</b>   | <b>58,563</b> |

<sup>1</sup> 1933 figures subject to revision. <sup>2</sup> See notes 2 and 3 of Table 1.

### 3.—Hospital Statistics, by Provinces, with Personnel, Hospital Facilities, Movement of Hospital Population, and Financial Statistics, calendar years 1932 and 1933.

| Province and Item.                      | Public General. |                    | Province and Item.             | Public.    |           | Totals.    |            |
|-----------------------------------------|-----------------|--------------------|--------------------------------|------------|-----------|------------|------------|
|                                         | 1932.           | 1933. <sup>1</sup> |                                | 1932.      |           | 1933.      |            |
|                                         |                 |                    |                                | General.   | Other.    | General.   | Other.     |
| <b>Northwest Territories and Yukon.</b> |                 |                    |                                |            |           |            |            |
| Numbers of hospitals.....               | 10              | 7                  | <b>Prince Edward Island.</b>   |            |           |            |            |
| Schools of nursing.....                 | -               | -                  | Numbers of hospitals.....      | 3          | 1         | 3          | 4          |
| <b>Personnel—</b>                       |                 |                    | Schools of nursing.....        | 3          | -         | 3          | 3          |
| Salaried physicians.....                | 2               | 1                  | <b>Personnel—</b>              |            |           |            |            |
| Internes.....                           | 13              | 14                 | Salaried physicians.....       | 1          | 1         | 1          | 2          |
| Graduate nurses.....                    | -               | -                  | Internes.....                  | 2          | 0         | 1          | 2          |
| Student nurses.....                     | 17              | 35                 | Graduate nurses.....           | 14         | 6         | 16         | 20         |
| All others.....                         |                 |                    | Student nurses.....            | 35         | 16        | 53         | 53         |
| <b>Totals, Personnel.....</b>           | <b>32</b>       | <b>50</b>          | All others.....                |            |           | 50         | 65         |
| Attending doctors.....                  | 4               | 6                  | <b>Totals, Personnel.....</b>  | <b>114</b> | <b>23</b> | <b>121</b> | <b>144</b> |
| <b>Hospital Facilities—</b>             |                 |                    | Attending doctors.....         | 37         | -         | 25         | 27         |
| X-Ray.....                              | 4               | 4                  | <b>Hospital Facilities—</b>    |            |           |            |            |
| Clinical laboratory.....                | 1               | 3                  | X-Ray.....                     | 3          | 1         | 3          | 4          |
| Physio-therapy.....                     | 1               | 2                  | Clinical laboratory.....       | 3          | 1         | 3          | 4          |
| <b>Movement of Population—</b>          |                 |                    | Physio-therapy.....            | 1          | -         | 2          | 1          |
| Admissions.....                         | 1,049           | 927                | <b>Movement of Population—</b> |            |           |            |            |
| Live births.....                        | 28              | 42                 | Admissions.....                | 3,183      | 91        | 3,387      | 3,489      |
| Totals under treatment.....             | 1,107           | 1,090              | Live births.....               |            | -         | 315        | 315        |
| Discharges.....                         | 955             | 955                | Totals under treatment.....    | 3,600      | 139       | 3,809      | 3,961      |
| Deaths.....                             | 54              | 50                 | Discharges.....                | 3,550      | 73        | 3,541      | 3,629      |
| Collective days stay—                   |                 |                    | Deaths.....                    | 114        | 16        | 133        | 146        |
| Totals.....                             | 21,178          | 20,408             | Collective days stay—          |            |           |            |            |
| Infants born in hospital.....           | 395             | 485                | Totals.....                    | 40,319     | 3         | 36,995     | 53,378     |
| All others.....                         | 20,783          | 20,923             | Infants born in hospital.....  | 3,421      | -         | 3,691      | 3,691      |
| Numbers of still births.....            | 2               | 1                  | All others.....                | 36,898     | -         | 33,304     | 49,687     |
| <b>Financial Statistics—</b>            |                 |                    | Numbers of still births.....   | 17         | -         | 15         | 15         |
| Maintenance receipts.....               | 63,889          | 2                  | <b>Financial Statistics—</b>   |            |           |            |            |
| Maintenance expenditures.....           | 70,897          | 2                  | Maintenance receipts.....      | 92,126     | 33,458    | 2          | 125,584    |
| Gross receipts.....                     | 63,889          | 2                  | Maintenance expenditures.....  | 100,260    | 33,373    | 2          | 133,633    |
| Gross expenditures.....                 | 74,523          | 2                  | Gross receipts.....            | 94,625     | 33,923    | 2          | 128,548    |
|                                         |                 |                    | Gross expenditures.....        | 101,173    | 37,288    | 2          | 138,461    |

<sup>1</sup> Three hospitals did not report and are not included. <sup>2</sup> No financial figures collected. <sup>3</sup> Did not report patient days.

## 3.—Hospital Statistics, by Provinces, with Personnel, Hospital Facilities, Movement of Hospital Population, and Financial Statistics, calendar years 1932 and 1933—continued.

| Province and Item.                  | Public.    |            |            | Private.   |           | Dominion.  |            | Totals.    |            |
|-------------------------------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|
|                                     | 1932.      |            | 1933.      | 1932.      |           | 1932.      | 1933.      | 1932.      | 1933.      |
|                                     | General.   | Other.     | General.   | Other.     | 1933.     | 1932.      | 1933.      | 1932.      | 1933.      |
| <b>Nova Scotia.</b>                 |            |            |            |            |           |            |            |            |            |
| Numbers of hospitals.....           | 22         | 6          | 23         | 6          | 3         | 3          | 4          | 37         | 36         |
| Schools of nursing.....             | 13         | 2          | 12         | 3          | 2         | 2          | —          | 17         | 17         |
| <b>Personnel—</b>                   |            |            |            |            |           |            |            |            |            |
| Salaried physicians.....            | 7          | 7          | 5          | —          | —         | —          | —          | —          | —          |
| Internes.....                       | 17         | 8          | 13         | 3          | —         | —          | 18         | 34         | 30         |
| Graduate nurses.....                | 131        | 40         | 159        | 20         | 34        | 3          | 2          | 31         | 23         |
| Student nurses.....                 | 344        | 41         | 255        | 43         | 39        | 52         | 15         | 206        | 248        |
| All others.....                     | 325        | 186        | 382        | 223        | 24        | 61         | 89         | 424        | 350        |
| <b>Totals, Personnel.....</b>       | <b>824</b> | <b>282</b> | <b>814</b> | <b>321</b> | <b>86</b> | <b>147</b> | <b>124</b> | <b>621</b> | <b>755</b> |
| Attending doctors.....              | 348        | 127        | 245        | 50         | 67        | 56         | 20         | 569        | 371        |
| <b>Hospital Facilities—</b>         |            |            |            |            |           |            |            |            |            |
| X-Ray.....                          | 20         | 2          | 20         | 3          | 2         | 2          | 1          | 25         | 26         |
| Clinical laboratory.....            | 15         | 1          | 15         | 2          | 2         | 2          | 2          | 20         | 20         |
| Physio-therapy.....                 | 7          | 1          | 6          | 1          | —         | 2          | 1          | 9          | 10         |
| <b>Movement of Population—</b>      |            |            |            |            |           |            |            |            |            |
| Admissions.....                     | 22,686     | 2,486      | 23,223     | 2,265      | 2,306     | 2,838      | 2,362      | 29,687     | 30,688     |
| Live births.....                    | 1,507      | 739        | 1,539      | 608        | 331       | 422        | —          | 2,577      | 2,569      |
| Totals under treatment.....         | 25,242     | 3,665      | 25,643     | 3,242      | 2,720     | 3,320      | 2,501      | 33,582     | 34,706     |
| Discharges.....                     | 23,868     | 3,036      | 23,949     | 2,725      | 2,473     | 3,137      | 2,366      | 31,721     | 32,177     |
| Deaths.....                         | 871        | 143        | 839        | 152        | 82        | 79         | 17         | 1,109      | 1,087      |
| Collective days stay—               |            |            |            |            |           |            |            |            |            |
| Totals.....                         | 337,754    | 143,224    | 334,420    | 141,323    | 32,841    | 40,427     | 49,650     | 563,836    | 565,820    |
| Infants born in hospital.....       | 18,040     | 8,953      | 17,078     | 7,990      | 4,051     | 4,593      | —          | 31,044     | 29,761     |
| All others.....                     | 319,714    | 134,271    | 317,342    | 133,333    | 28,790    | 35,734     | 49,650     | 552,792    | 536,059    |
| <b>Numbers of still births.....</b> | <b>83</b>  | <b>40</b>  | <b>92</b>  | <b>32</b>  | <b>22</b> | <b>28</b>  | <b>—</b>   | <b>145</b> | <b>152</b> |
| <b>Financial Statistics!—</b>       |            |            |            |            |           |            |            |            |            |
| Maintenance receipts.....           | 860,789    | 350,783    | 3          | 3          | 65,018    | 3          | 2          | 1,277,386  | 3          |
| Maintenance expenditures.....       | 855,361    | 427,674    | 3          | 3          | 77,328    | 3          | 3          | 1,517,062  | 3          |
| Gross receipts.....                 | 902,250    | 388,663    | 3          | 3          | 79,436    | 3          | 3          | 1,371,145  | 3          |
| Gross expenditures.....             | 901,774    | 590,991    | 3          | 3          | 78,266    | 3          | 3          | 1,727,730  | 3          |

<sup>1</sup> Twenty-two general public; 6 other public (2 women's, 1 isolation, 3 tuberculosis); 3 private; 5 Dominion (1 under Dept. of Pensions and National Health, 2 quarantine and 2 marine) furnished financial reports. <sup>2</sup> Operating costs borne by Dominion Government. <sup>3</sup> No financial statistics collected in 1933.

### 3.—Hospital Statistics, by Provinces, with Personnel, Hospital Facilities, Movement of Hospital Population, and Financial Statistics, calendar years 1932 and 1933—continued.

| Province and Item.                  | Public.    |            |            |            | Private.  |           | Dominion. |           | Totals.      |              |
|-------------------------------------|------------|------------|------------|------------|-----------|-----------|-----------|-----------|--------------|--------------|
|                                     | 1932.      |            | 1933.      |            | 1932.     | 1933.     | 1932.     | 1933.     | 1932.        | 1933.        |
|                                     | General.   | Other.     | General.   | Other.     |           |           |           |           |              |              |
| <b>New Brunswick.</b>               |            |            |            |            |           |           |           |           |              |              |
| Numbers of hospitals.....           | 17         | 4          | 17         | 4          | 4         | 4         | 4         | 3         | 29           | 28           |
| Schools of nursing.....             | 13         | 2          | 12         | 1          | —         | —         | —         | —         | 15           | 13           |
| <b>Personnel—</b>                   |            |            |            |            |           |           |           |           |              |              |
| Salaries.....                       | 6          | 9          | 8          | 8          | —         | —         | —         | —         | 22           | 23           |
| Internes.....                       | 10         | 1          | 9          | —          | —         | —         | 7         | —         | 11           | 9            |
| Graduate nurses.....                | 105        | 36         | 120        | 43         | 9         | 11        | 9         | 8         | 159          | 182          |
| Student nurses.....                 | 355        | 8          | 362        | 17         | —         | —         | —         | —         | 363          | 319          |
| All others.....                     | 321        | 162        | 357        | 150        | 8         | 8         | 23        | 28        | 514          | 543          |
| <b>Totals, Personnel.....</b>       | <b>797</b> | <b>216</b> | <b>796</b> | <b>218</b> | <b>17</b> | <b>19</b> | <b>39</b> | <b>43</b> | <b>1,069</b> | <b>1,076</b> |
| Attending doctors.....              | 278        | 45         | 245        | 27         | 25        | 20        | 5         | 7         | 354          | 299          |
| <b>Hospital Facilities—</b>         |            |            |            |            |           |           |           |           |              |              |
| X-Ray.....                          | 15         | 3          | 15         | 3          | 1         | 1         | —         | —         | 19           | 20           |
| Chemical laboratory.....            | 14         | 3          | 13         | 3          | —         | —         | 2         | —         | 19           | 16           |
| Physio-therapy.....                 | 7          | 2          | 12         | 2          | —         | —         | 1         | —         | 10           | 15           |
| <b>Movement of Population—</b>      |            |            |            |            |           |           |           |           |              |              |
| Admissions.....                     | 15,412     | 532        | 16,094     | 540        | 418       | 364       | 769       | 759       | 17,131       | 17,757       |
| Live births.....                    | 1,412      | 123        | 1,348      | 81         | 13        | 14        | —         | —         | 1,548        | 1,443        |
| Totals under treatment.....         | 17,276     | 1,007      | 18,034     | 1,000      | 448       | 389       | 836       | 814       | 19,567       | 20,237       |
| Discharges.....                     | 16,795     | 644        | 16,614     | 501        | 420       | 351       | 774       | 754       | 18,633       | 18,220       |
| Deaths.....                         | 748        | 65         | 767        | 91         | 20        | 15        | 7         | 9         | 840          | 882          |
| Collective days stay—               |            |            |            |            |           |           |           |           |              |              |
| Totals.....                         | 212,448    | 127,222    | 240,731    | 146,039    | 7,146     | 7,637     | 19,428    | 19,165    | 366,244      | 413,572      |
| Infants born in hospital.....       | 16,963     | 1,580      | 16,418     | 1,243      | 162       | 169       | —         | —         | 18,705       | 17,830       |
| All others.....                     | 195,485    | 125,642    | 224,313    | 144,796    | 6,984     | 7,468     | 19,428    | 19,165    | 347,539      | 395,742      |
| <b>Numbers of still births.....</b> | <b>91</b>  | <b>4</b>   | <b>77</b>  | <b>2</b>   | <b>—</b>  | <b>—</b>  | <b>—</b>  | <b>—</b>  | <b>95</b>    | <b>79</b>    |
| <b>Financial Statistics—</b>        |            |            |            |            |           |           |           |           |              |              |
| Maintenance receipts.....           | \$ 717,100 | \$ 358,097 | \$ 3       | \$ 3       | \$ 13,713 | \$ 3      | \$ 2      | \$ 2      | \$ 1,089,000 | \$ 3         |
| Maintenance expenditures.....       | \$ 731,460 | \$ 360,882 | \$ 3       | \$ 3       | \$ 13,770 | \$ 3      | \$ 68,177 | \$ 3      | \$ 1,174,089 | \$ 4         |
| Gross receipts.....                 | \$ 773,253 | \$ 360,623 | \$ 3       | \$ 3       | \$ 13,713 | \$ 3      | \$ —      | \$ 3      | \$ 1,147,589 | \$ 3         |
| Gross expenditures.....             | \$ 826,606 | \$ 727,667 | \$ 3       | \$ 3       | \$ 13,841 | \$ 3      | \$ 68,177 | \$ 3      | \$ 1,636,291 | \$ 3         |

<sup>1</sup> Seventeen general public; 4 other public (1 women's, 3 tuberculosis); 3 private; and 4 Dominion (1 under Dept. of Pensions and National Health, 2 quarantine and 1 leper) furnished financial reports for 1932. <sup>2</sup> Operating costs borne by Dominion Government. <sup>3</sup> No financial statistics collected in 1933.



3.—Hospital Statistics, by Provinces, with Personnel, Hospital Facilities, Movement of Hospital Population, and Financial Statistics, calendar years 1932 and 1933—continued.

| Province and Item.                  | Public.      |              |              |              | Private.   |            | Dominion.  |            | Totals.      |              |
|-------------------------------------|--------------|--------------|--------------|--------------|------------|------------|------------|------------|--------------|--------------|
|                                     | 1932.        |              | 1933.        |              | 1932.      | 1933.      | 1932.      | 1933.      | 1932.        | 1933.        |
|                                     | General.     | Other.       | General.     | Other.       |            |            |            |            |              |              |
| <b>Quebec.</b>                      |              |              |              |              |            |            |            |            |              |              |
| Numbers of hospitals.....           | 57           | 23           | 55           | 33           | 23         | 23         |            |            | 108          | 115          |
| Schools of nursing.....             | 36           | 8            | 26           | 5            | 4          | 2          |            |            | 48           | 33           |
| <b>Personnel—</b>                   |              |              |              |              |            |            |            |            |              |              |
| Salaried physicians.....            | 137          | 57           | 110          | 75           | 17         | 15         | 14         | 10         | 225          | 210          |
| Internes.....                       | 219          | 39           | 184          | 47           | 6          | —          |            |            | 264          | 231          |
| Graduate nurses.....                | 886          | 219          | 876          | 289          | 49         | 49         | 36         | 22         | 1,190        | 1,236        |
| Student nurses.....                 | 1,629        | 417          | 1,446        | 331          | 42         | 28         |            |            | 1,808        | 1,805        |
| All others.....                     | 3,975        | 859          | 4,151        | 1,733        | 87         | 105        | 189        | 93         | 5,110        | 6,072        |
| <b>Totals, Personnel.....</b>       | <b>6,846</b> | <b>1,591</b> | <b>6,767</b> | <b>2,465</b> | <b>201</b> | <b>197</b> | <b>239</b> | <b>125</b> | <b>8,877</b> | <b>9,554</b> |
| Attending doctors.....              | 1,387        | 343          | 1,173        | 345          | 100        | 200        | 14         | 12         | 1,844        | 1,730        |
| <b>Hospital Facilities—</b>         |              |              |              |              |            |            |            |            |              |              |
| X-Ray.....                          | 52           | 14           | 50           | 15           | 10         | 8          | 3          | 3          | 79           | 76           |
| Clinical laboratory.....            | 40           | 14           | 38           | 12           | 12         | 6          | 2          | 1          | 68           | 59           |
| Physiotherapy.....                  | 36           | 10           | 33           | 10           | 10         | 7          | 2          | 2          | 58           | 52           |
| <b>Movement of Population—</b>      |              |              |              |              |            |            |            |            |              |              |
| Admissions.....                     | 96,645       | 14,498       | 100,095      | 16,584       | 3,376      | 2,923      | 922        | 968        | 115,441      | 120,470      |
| Live births.....                    | 6,556        | 1,594        | 6,503        | 2,313        | 438        | 3,434      |            |            | 8,733        | 9,272        |
| Totals under treatment.....         | 108,003      | 18,139       | 112,190      | 23,947       | 4,019      | 3,404      | 1,443      | 1,088      | 131,004      | 140,699      |
| Discharges.....                     | 98,751       | 14,178       | 101,248      | 17,820       | 3,566      | 3,226      | 928        | 923        | 117,452      | 123,015      |
| Deaths.....                         | 4,760        | 1,128        | 5,099        | 1,440        | 32         | 92         | 40         | 27         | 6,010        | 6,658        |
| Collective days stay—               |              |              |              |              |            |            |            |            |              |              |
| Totals.....                         | 2,165,439    | 972,033      | 2,266,622    | 1,857,872    | 65,218     | 59,630     | 170,759    | 52,955     | 3,373,449    | 4,237,149    |
| Infants born in hospital.....       | 80,991       | 128,433      | 77,818       | 114,250      | 7,037      | 6,706      |            |            | 217,061      | 228,774      |
| All others.....                     | 2,084,448    | 843,600      | 2,188,874    | 1,713,622    | 57,581     | 52,924     | 170,759    | 52,955     | 3,156,388    | 4,008,375    |
| <b>Numbers of still births.....</b> | <b>395</b>   | <b>74</b>    | <b>328</b>   | <b>66</b>    | <b>27</b>  | <b>16</b>  | <b>—</b>   | <b>—</b>   | <b>496</b>   | <b>410</b>   |
| <b>Financial Statistics!—</b>       |              |              |              |              |            |            |            |            |              |              |
| Maintenance receipts.....           | 5,837,321    | 1,616,296    | —            | —            | 189,072    | —          | 4,036      | —          | 7,646,755    | —            |
| Maintenance expenditures.....       | 5,941,764    | 1,791,860    | —            | —            | 183,366    | —          | 426,346    | —          | 8,328,336    | —            |
| Gross receipts.....                 | 7,936,320    | 1,034,289    | —            | —            | 199,990    | —          | 4,036      | —          | 10,074,735   | —            |
| Gross expenditures.....             | 8,989,188    | 2,064,206    | —            | —            | 157,326    | —          | 426,346    | —          | 11,667,066   | —            |

<sup>1</sup> Fifty-four general public; 21 other public (2 women's, 4 pediatric, 1 orthopedic, 4 convalescent, 2 isolation, 7 tuberculosis and 1 special); 15 private and 3 Dominion (1 under Dept. of Pensions and National Health and 2 quarantine) furnished financial reports for 1932. \* Operating costs borne by Dominion Government. \* No financial statistics collected in 1933.

3.—Hospital Statistics, by Provinces, with Personnel, Hospital Facilities, Movement of Hospital Population, and Financial Statistics, calendar years 1932 and 1933—continued.

| Province and Item.             | Public.      |              |              | Private.   |            | Dominion.  |            | Totals.       |               |
|--------------------------------|--------------|--------------|--------------|------------|------------|------------|------------|---------------|---------------|
|                                | 1932.        |              | 1933.        | 1932.      | 1933.      | 1932.      | 1933.      | 1932.         | 1933.         |
|                                | General.     | Other.       | General.     |            |            |            |            |               |               |
| <b>Ontario.</b>                |              |              |              |            |            |            |            |               |               |
| Numbers of hospitals.....      | 110          | 50           | 111          | 78         | 83         | 7          | 7          | 245           | 256           |
| Schools of nursing.....        | 79           | 10           | 63           | 3          | 1          | —          | —          | 92            | 71            |
| <b>Personnel—</b>              |              |              |              |            |            |            |            |               |               |
| Salaried physicians.....       | 79           | 66           | 84           | 26         | 23         | 47         | 42         | 218           | 218           |
| Internes.....                  | 209          | 38           | 196          | 2          | —          | 2          | 3          | 251           | 228           |
| Graduate nurses.....           | 1,089        | 373          | 1,199        | 120        | 137        | 79         | 64         | 1,661         | 1,867         |
| Student nurses.....            | 3,285        | 506          | 2,647        | 28         | 13         | —          | —          | 3,819         | 2,915         |
| All others.....                | 3,445        | 1,569        | 4,328        | 266        | 328        | 306        | 230        | 5,586         | 6,828         |
| <b>Totals, Personnel.....</b>  | <b>8,107</b> | <b>2,552</b> | <b>8,454</b> | <b>442</b> | <b>501</b> | <b>434</b> | <b>339</b> | <b>11,535</b> | <b>12,056</b> |
| Attending doctors.....         | 3,156        | 506          | 2,771        | 879        | 476        | 51         | 53         | 4,592         | 3,741         |
| <b>Hospital Facilities—</b>    |              |              |              |            |            |            |            |               |               |
| X-ray.....                     | 97           | 15           | 90           | 14         | 14         | 3          | 3          | 129           | 133           |
| Clinical laboratory.....       | 63           | 19           | 58           | 12         | 11         | 2          | 2          | 96            | 83            |
| Physio-therapy.....            | 42           | 8            | 54           | 12         | 14         | 2          | 2          | 64            | 73            |
| <b>Movement of Population—</b> |              |              |              |            |            |            |            |               |               |
| Admissions.....                | 167,134      | 23,623       | 171,154      | 6,547      | 7,460      | 4,742      | 4,580      | 202,046       | 206,134       |
| Live births.....               | 21,484       | 2,064        | 21,700       | 1,102      | 1,312      | 89         | 85         | 25,729        | 25,202        |
| Totals under treatment.....    | 135,921      | 23,878       | 139,934      | 7,996      | 9,113      | 5,654      | 5,053      | 239,449       | 244,201       |
| Discharges.....                | 181,961      | 24,823       | 184,435      | 7,475      | 8,579      | 4,718      | 4,613      | 218,977       | 221,320       |
| Deaths.....                    | 8,684        | 1,469        | 8,422        | 160        | 207        | 100        | 104        | 10,413        | 10,431        |
| Collective days stay—          |              |              |              |            |            |            |            |               |               |
| Totals.....                    | 2,685,146    | 1,240,195    | 2,793,036    | 117,985    | 130,936    | 324,648    | 141,530    | 4,367,974     | 4,630,370     |
| Infants born in hospital.....  | 247,811      | 36,063       | 237,324      | 15,038     | 15,811     | 1,176      | 909        | 300,088       | 299,064       |
| All others.....                | 2,437,335    | 1,204,132    | 2,456,712    | 102,947    | 115,125    | 323,472    | 140,621    | 4,067,886     | 4,331,246     |
| Numbers of still births.....   | 1,034        | 106          | 954          | 46         | 68         | 3          | 5          | 1,189         | 1,149         |
| <b>Financial Statistics—</b>   |              |              |              |            |            |            |            |               |               |
| Maintenance receipts.....      | 8,969,783    | 3,447,074    | 9,969,783    | 466,782    | 500,000    | 740,547    | 740,547    | 12,883,639    | 13,447,042    |
| Maintenance expenditures.....  | 8,949,780    | 3,268,693    | 9,949,780    | 488,022    | 500,000    | 741,084    | 741,084    | 14,178,907    | 15,219,999    |
| Gross receipts.....            | 9,660,620    | 4,045,326    | 10,444,275   | 472,061    | 500,000    | —          | —          | 14,178,907    | 15,219,999    |
| Gross expenditures.....        | 10,444,275   | 4,526,497    | 10,444,275   | 508,143    | 500,000    | —          | —          | 16,219,999    | 17,219,999    |

<sup>1</sup> One hundred and eight general public; 50 other public (3 women's, 2 paediatric, 1 convalescent, 4 isolation, 23 Red Cross and 12 tuberculosis); 59 private (5 reported receipts only); and 3 Dominion (2 under Dept. of Pensions and National Health and 1 under Dept. of Indian Affairs) furnished financial reports. <sup>2</sup> Operating costs borne by Dominion Government. \* No financial statistics collected in 1933.

3.—Hospital Statistics, by Provinces, with Personnel, Hospital Facilities, Movement of Hospital Population, and Financial Statistics, calendar years 1932 and 1933—continued.

| Province and Item.                  | Public.      |            |              |            | Private.  |           | Dominion.  |           | Totals.      |              |
|-------------------------------------|--------------|------------|--------------|------------|-----------|-----------|------------|-----------|--------------|--------------|
|                                     | 1932.        |            | 1933.        |            | 1932.     | 1933.     | 1932.      | 1933.     | 1932.        | 1933.        |
|                                     | General.     | Other.     | General.     | Other.     |           |           |            |           |              |              |
| <b>Manitoba.</b>                    |              |            |              |            |           |           |            |           |              |              |
| Numbers of hospitals.....           | 28           | 14         | 28           | 10         | 7         | 7         | 3          | 3         | 52           | 48           |
| Schools of nursing.....             | 16           | 4          | 14           | 4          | —         | —         | —          | —         | 20           | 13           |
| <b>Personnel—</b>                   |              |            |              |            |           |           |            |           |              |              |
| Salaried physicians.....            | 35           | 20         | 36           | 18         | 4         | 3         | 16         | 17        | 75           | 74           |
| Internes.....                       | 57           | 16         | 48           | 14         | 1         | 1         | 1          | 1         | 75           | 63           |
| Graduate nurses.....                | 183          | 98         | 206          | 98         | 15        | 13        | 19         | 19        | 313          | 335          |
| Student nurses.....                 | 705          | 152        | 572          | 125        | —         | —         | —          | —         | 857          | 697          |
| All others.....                     | 559          | 384        | 774          | 482        | 16        | 14        | 51         | 61        | 1,010        | 1,331        |
| <b>Totals, Personnel.....</b>       | <b>1,539</b> | <b>670</b> | <b>1,636</b> | <b>737</b> | <b>36</b> | <b>30</b> | <b>87</b>  | <b>98</b> | <b>2,332</b> | <b>2,501</b> |
| Attending doctors.....              | 739          | 314        | 323          | 165        | 27        | 18        | 13         | 17        | 1,093        | 523          |
| <b>Hospital Facilities—</b>         |              |            |              |            |           |           |            |           |              |              |
| X-Ray.....                          | 22           | 6          | 23           | 5          | 2         | 1         | 2          | 2         | 32           | 31           |
| Clinical laboratory.....            | 15           | 7          | 10           | 5          | 1         | 1         | 1          | 1         | 24           | 17           |
| Physio-therapy.....                 | 8            | 4          | 6            | 3          | 1         | —         | 2          | 1         | 15           | 10           |
| <b>Movement of Population—</b>      |              |            |              |            |           |           |            |           |              |              |
| Admissions.....                     | 41,615       | 12,511     | 39,415       | 6,882      | 973       | 1,008     | 1,568      | 1,483     | 56,667       | 48,758       |
| Live births.....                    | 5,203        | 717        | 4,888        | 709        | 241       | 272       | 7          | 12        | 6,168        | 5,881        |
| Totals under treatment.....         | 48,603       | 14,115     | 43,886       | 8,804      | 1,262     | 1,302     | 1,730      | 1,655     | 65,710       | 57,447       |
| Discharges.....                     | 45,470       | 7,431      | 42,845       | 7,241      | 1,219     | 1,260     | 1,486      | 1,448     | 55,606       | 52,794       |
| Deaths.....                         | 1,473        | 316        | 1,404        | 302        | 11        | 19        | 30         | 21        | 1,830        | 1,746        |
| Collective days stay—               |              |            |              |            |           |           |            |           |              |              |
| Totals.....                         | 572,300      | 332,840    | 529,291      | 437,382    | 19,847    | 11,037    | 53,455     | 53,240    | 978,442      | 1,030,950    |
| Infants born in hospital.....       | 56,023       | 13,613     | 49,449       | 7,065      | 2,580     | 2,558     | 125        | 153       | 72,341       | 59,825       |
| All others.....                     | 516,277      | 319,227    | 479,842      | 429,717    | 17,267    | 8,479     | 53,330     | 53,087    | 906,101      | 971,125      |
| <b>Numbers of still births.....</b> | <b>155</b>   | <b>24</b>  | <b>187</b>   | <b>26</b>  | <b>5</b>  | <b>4</b>  | <b>—</b>   | <b>—</b>  | <b>184</b>   | <b>217</b>   |
| <b>Financial Statistics—</b>        |              |            |              |            |           |           |            |           |              |              |
| Maintenance receipts.....           | \$ 1,563,615 | \$ 730,075 | \$ 1,491,219 | \$ 845,243 | \$ 49,539 | \$ 3      | \$ 2       | \$ 2      | \$ 2,343,229 | \$ 3         |
| Maintenance expenditures.....       | \$ 1,491,219 | \$ 845,243 | \$ 1,491,219 | \$ 845,243 | \$ 68,173 | \$ 3      | \$ 114,395 | \$ 3      | \$ 2,514,030 | \$ 3         |
| Gross receipts.....                 | \$ 1,608,877 | \$ 833,331 | \$ 1,608,877 | \$ 833,331 | \$ 53,473 | \$ 3      | \$ 114,438 | \$ 3      | \$ 2,495,681 | \$ 3         |
| Gross expenditures.....             | \$ 1,608,877 | \$ 833,331 | \$ 1,608,877 | \$ 833,331 | \$ 68,173 | \$ 3      | \$ 114,438 | \$ 3      | \$ 2,514,030 | \$ 3         |

<sup>1</sup> Twenty-eight general public; 14 other public (1 women's, 1 paediatric, 1 convalescent, 2 isolation, 5 Red Cross and 4 tuberculosis); 5 private and 2 Dominion (1 under Dept. of Pensions and National Health and 1 under Dept. of Indian Affairs) furnished financial reports for 1932. <sup>2</sup> Operating costs borne by Dominion Government. <sup>3</sup> No financial statistics collected in 1933.

### 3.—Hospital Statistics, by Provinces, with Personnel, Hospital Facilities, Movement of Hospital Population, and Financial Statistics, calendar years 1932 and 1933—continued.

| Province and Item.             | Public.      |            |              |            | Private.  |            | Dominion. |          | Totals.      |              |
|--------------------------------|--------------|------------|--------------|------------|-----------|------------|-----------|----------|--------------|--------------|
|                                | 1932.        |            | 1933.        |            | 1932.     | 1933.      | 1932.     | 1933.    | 1932.        | 1933.        |
|                                | General.     | Other.     | General.     | Other.     |           |            |           |          |              |              |
| <b>Saskatchewan.</b>           |              |            |              |            |           |            |           |          |              |              |
| Numbers of hospitals.....      | 67           | 16         | 71           | 19         | 26        | 49         | 1         | 1        | 110          | 140          |
| Schools of nursing.....        | 16           | 2          | 14           | 3          | —         | —          | —         | —        | 13           | 17           |
| <b>Personnel—</b>              |              |            |              |            |           |            |           |          |              |              |
| Salaries.....                  | 7            | 14         | 9            | 14         | —         | —          | 1         | 1        | 22           | 24           |
| Internes.....                  | 17           | 5          | 19           | 1          | —         | —          | —         | —        | 22           | 20           |
| Graduate nurses.....           | 328          | 73         | 368          | 73         | 16        | 39         | 3         | 3        | 420          | 483          |
| Student nurses.....            | 518          | 31         | 446          | —          | —         | —          | —         | —        | 549          | 446          |
| All others.....                | 764          | 260        | 780          | 307        | 41        | 68         | 4         | 4        | 1,069        | 1,159        |
| <b>Totals, Personnel.....</b>  | <b>1,634</b> | <b>383</b> | <b>1,622</b> | <b>395</b> | <b>57</b> | <b>107</b> | <b>8</b>  | <b>8</b> | <b>2,032</b> | <b>2,132</b> |
| Attending doctors.....         | 572          | 63         | 517          | 71         | 62        | 104        | 1         | 1        | 698          | 693          |
| <b>Hospital Facilities—</b>    |              |            |              |            |           |            |           |          |              |              |
| X-Ray.....                     | 48           | 4          | 50           | 4          | —         | 2          | 1         | —        | 53           | 55           |
| Clinical laboratory.....       | 39           | 3          | 27           | 3          | —         | 3          | —         | —        | 42           | 33           |
| Physio-therapy.....            | 17           | 3          | 19           | 3          | —         | 2          | 1         | —        | 21           | 24           |
| <b>Movement of Population—</b> |              |            |              |            |           |            |           |          |              |              |
| Admissions.....                | 41,311       | 6,006      | 43,594       | 6,674      | 1,176     | 2,170      | 160       | 143      | 48,653       | 52,581       |
| Live births.....               | 5,278        | 644        | 5,450        | 657        | 408       | 547        | 25        | 25       | 6,355        | 6,659        |
| Totals under treatment.....    | 48,069       | 7,521      | 50,476       | 8,341      | 1,632     | 2,749      | 185       | 197      | 57,407       | 61,763       |
| Discharges.....                | 45,926       | 6,470      | 47,303       | 7,086      | 1,487     | 2,642      | 156       | 159      | 54,039       | 57,190       |
| Deaths.....                    | 1,706        | 180        | 1,738        | 202        | 31        | 57         | 10        | 9        | 1,927        | 1,996        |
| Collective days stay—          |              |            |              |            |           |            |           |          |              |              |
| Totals.....                    | 625,908      | 337,952    | 647,147      | 384,765    | 15,414    | 22,900     | 9,945     | 10,059   | 989,209      | 1,064,871    |
| Infants born in hospital.....  | 57,755       | 17,691     | 59,910       | 14,302     | 4,309     | 5,679      | 307       | 365      | 80,062       | 80,256       |
| All others.....                | 568,143      | 320,261    | 587,237      | 370,463    | 11,105    | 17,221     | 9,638     | 9,694    | 909,147      | 984,615      |
| Numbers of still births.....   | 230          | 23         | 166          | 193        | 17        | 17         | —         | —        | 270          | 376          |
| <b>Financial Statistics!—</b>  |              |            |              |            |           |            |           |          |              |              |
| Maintenance receipts.....      | \$ 1,709,864 | 783,730    | \$ 1,901,969 | \$ 738,213 | \$ 15,440 | \$ 17,012  | \$ 8,156  | \$ 8,156 | \$ 2,509,034 | \$ 2,509,034 |
| Maintenance expenditures.....  | \$ 1,792,314 | 785,384    | \$ 1,933,415 | \$ 738,893 | \$ 15,825 | \$ 17,162  | \$ 8,340  | \$ 8,340 | \$ 2,593,523 | \$ 2,593,523 |
| Gross receipts.....            | \$ 1,792,314 | 785,384    | \$ 1,933,415 | \$ 738,893 | \$ 15,825 | \$ 17,162  | \$ 8,340  | \$ 8,340 | \$ 2,593,523 | \$ 2,593,523 |
| Gross expenditures.....        | \$ 1,792,314 | 785,384    | \$ 1,933,415 | \$ 738,893 | \$ 15,825 | \$ 17,162  | \$ 8,340  | \$ 8,340 | \$ 2,593,523 | \$ 2,593,523 |

<sup>1</sup> Sixty-five general public; 15 other public (1 women's, 1 paediatric, 3 tuberculous and 10 Red Cross); 15 private and 1 under Dept. of Indian Affairs furnished financial reports for 1932. <sup>2</sup> Operating costs borne by Dominion Government. <sup>3</sup> No financial statistics collected in 1933.



### 3.—Hospital Statistics, by Provinces, with Personnel, Hospital Facilities, Movement of Hospital Population, and Financial Statistics, calendar years 1932 and 1933—continued.

| Province and Item.             | Public.      |            |              |            | Private.   |            | Dominion.  |           | Totals.      |              |
|--------------------------------|--------------|------------|--------------|------------|------------|------------|------------|-----------|--------------|--------------|
|                                | 1932.        |            | 1933.        |            | 1932.      | 1933.      | 1932.      | 1933.     | 1932.        | 1933.        |
|                                | General.     | Other.     | General.     | Other.     |            |            |            |           |              |              |
| <b>Alberta.</b>                |              |            |              |            |            |            |            |           |              |              |
| Numbers of hospitals.....      | 77           | 9          | 74           | 13         | 44         | 43         | 5          | 5         | 135          | 135          |
| Schools of nursing.....        | 12           | -          | 11           | -          | -          | -          | -          | -         | 12           | 11           |
| <b>Personnel—</b>              |              |            |              |            |            |            |            |           |              |              |
| Salaries physicians.....       | 21           | 5          | 15           | 5          | 4          | 6          | 11         | 7         | 41           | 33           |
| Internes.....                  | 32           | 2          | 15           | 1          | -          | -          | -          | -         | 34           | 16           |
| Graduate nurses.....           | 437          | 42         | 304          | 44         | 24         | 33         | 19         | 18        | 522          | 459          |
| Student nurses.....            | 619          | -          | 464          | -          | -          | -          | -          | -         | 619          | 464          |
| All others.....                | 1,054        | 111        | 802          | 155        | 73         | 68         | 39         | 38        | 1,277        | 1,063        |
| <b>Totals, Personnel.....</b>  | <b>2,163</b> | <b>160</b> | <b>1,660</b> | <b>205</b> | <b>101</b> | <b>107</b> | <b>69</b>  | <b>63</b> | <b>2,493</b> | <b>2,035</b> |
| Attending doctors.....         | 814          | 258        | 720          | 157        | 103        | 136        | -          | 7         | 1,175        | 1,020        |
| <b>Hospital Facilities—</b>    |              |            |              |            |            |            |            |           |              |              |
| X-Ray.....                     | 62           | 1          | 58           | 1          | 7          | 9          | 1          | 2         | 71           | 70           |
| Clinical laboratory.....       | 36           | -          | 30           | 1          | 4          | 5          | 1          | -         | 42           | 36           |
| Physio-therapy.....            | 13           | 1          | 15           | 1          | 2          | 4          | 2          | 2         | 18           | 22           |
| <b>Movement of Population—</b> |              |            |              |            |            |            |            |           |              |              |
| Admissions.....                | 53,173       | 1,034      | 52,985       | 1,013      | 1,108      | 1,356      | 2,147      | 2,209     | 57,462       | 57,563       |
| Live births.....               | 7,557        | 472        | 7,007        | 474        | 411        | 436        | 88         | 101       | 8,528        | 8,018        |
| Totals under treatment.....    | 62,663       | 1,947      | 61,904       | 2,067      | 1,063      | 1,872      | 2,347      | 2,444     | 68,560       | 68,287       |
| Discharges.....                | 59,044       | 1,419      | 58,172       | 1,465      | 1,474      | 1,707      | 2,206      | 2,279     | 64,143       | 63,613       |
| Deaths.....                    | 1,990        | 68         | 1,920        | 79         | 45         | 45         | 68         | 34        | 2,171        | 2,078        |
| Collective days stay—          |              |            |              |            |            |            |            |           |              |              |
| Totals.....                    | 769,880      | 119,469    | 715,838      | 182,606    | 33,504     | 37,356     | 49,504     | 45,399    | 972,357      | 981,189      |
| Infants born in hospital.....  | 77,890       | 8,678      | 77,392       | 21,952     | 4,445      | 4,581      | 965        | 1,166     | 91,978       | 105,091      |
| All others.....                | 691,990      | 110,791    | 638,436      | 160,654    | 29,059     | 32,775     | 48,539     | 44,233    | 880,379      | 876,098      |
| Numbers of still births.....   | 249          | 14         | 232          | 9          | 12         | 16         | 1          | 5         | 276          | 262          |
| <b>Financial Statistics!—</b>  |              |            |              |            |            |            |            |           |              |              |
| Maintenance receipts.....      | \$ 2,370,926 | \$ 144,964 | \$ 3         | \$ 3       | \$ 41,272  | \$ 3       | \$ 2       | \$ 2      | \$ 2,557,162 | \$ 3         |
| Maintenance expenditures.....  | \$ 2,182,446 | \$ 219,480 | \$ 3         | \$ 3       | \$ 43,831  | \$ 3       | \$ 118,664 | \$ 3      | \$ 2,564,421 | \$ 3         |
| Gross receipts.....            | \$ 2,562,448 | \$ 185,029 | \$ 3         | \$ 3       | \$ 41,299  | \$ 3       | -          | \$ 3      | \$ 2,788,776 | \$ 3         |
| Gross expenditures.....        | \$ 2,066,472 | \$ 221,994 | \$ 3         | \$ 3       | \$ 53,177  | \$ 3       | \$ 120,058 | \$ 3      | \$ 3,001,701 | \$ 3         |

<sup>1</sup> Seventy-seven general public; 7 other public (3 women's, 1 pediatric, 2 isolation and 1 tuberculosis); 22 private and 5 Dominion (1 under Dept. of Pensions and National Health, 4 under Dept. of Indian Affairs) furnished financial reports for 1932. <sup>2</sup> Operating costs borne by Dominion Government. <sup>3</sup> No financial statistics collected in 1933.

### 3.—Hospital Statistics, by Provinces, with Personnel, Hospital Facilities, Movement of Hospital Population, and Financial Statistics, calendar years 1932 and 1933—continued.

| Province and Item.             | Public.      |            |              |            | Private.   |            | Dominion.      |            | Totals.      |              |
|--------------------------------|--------------|------------|--------------|------------|------------|------------|----------------|------------|--------------|--------------|
|                                | 1932.        |            | 1933.        |            | 1932.      |            | 1933.          |            | 1932.        |              |
|                                | General.     | Other.     | General.     | Other.     | 1932.      | 1933.      | 1932.          | 1933.      | 1932.        | 1933.        |
| <b>British Columbia.</b>       |              |            |              |            |            |            |                |            |              |              |
| Numbers of hospitals.....      | 69           | 6          | 68           | 7          | 29         | 26         | 4              | 4          | 108          | 105          |
| Schools of nursing.....        | 15           | 1          | 9            | 1          | —          | —          | —              | —          | 16           | 10           |
| <b>Personnel—</b>              |              |            |              |            |            |            |                |            |              |              |
| Salaried physicians.....       | 58           | 6          | 53           | 6          | 6          | 4          | 15             | 16         | 85           | 79           |
| Internes.....                  | 41           | —          | 40           | —          | —          | —          | —              | —          | 41           | 41           |
| Graduate nurses.....           | 596          | 46         | 612          | 56         | 41         | 43         | 21             | 21         | 704          | 732          |
| Student nurses.....            | 774          | 60         | 633          | 11         | —          | —          | —              | —          | 834          | 644          |
| All others.....                | 1,201        | 166        | 1,346        | 230        | 76         | 61         | 73             | 81         | 1,516        | 1,718        |
| <b>Totals, Personnel.....</b>  | <b>2,670</b> | <b>278</b> | <b>2,684</b> | <b>303</b> | <b>123</b> | <b>108</b> | <b>109</b>     | <b>119</b> | <b>3,180</b> | <b>3,214</b> |
| Attending doctors.....         | 699          | 149        | 364          | 40         | 268        | 309        | 17             | 16         | 1,133        | 729          |
| <b>Hospital Facilities—</b>    |              |            |              |            |            |            |                |            |              |              |
| X-Ray.....                     | 60           | 2          | 61           | 2          | 3          | 1          | 1              | 1          | 66           | 65           |
| Clinical laboratory.....       | 24           | 2          | 27           | 4          | 2          | 2          | 3              | 1          | 33           | 30           |
| Physio-therapy.....            | 13           | 1          | 19           | 1          | 3          | 2          | 1              | 1          | 18           | 23           |
| <b>Movement of Population—</b> |              |            |              |            |            |            |                |            |              |              |
| Admissions.....                | 52,317       | 1,354      | 53,373       | 1,088      | 2,345      | 1,907      | 1,335          | 13,745     | 57,351       | 70,113       |
| Live births.....               | 6,339        | 605        | 6,268        | 411        | 345        | 235        | —              | 223        | 7,289        | 7,137        |
| Totals under treatment.....    | 61,616       | 2,334      | 62,116       | 2,096      | 2,780      | 2,280      | 1,491          | 15,160     | 68,221       | 81,652       |
| Discharges.....                | 56,546       | 1,894      | 57,014       | 1,370      | 2,494      | 2,059      | 1,241          | 1,241      | 62,199       | 61,684       |
| Deaths.....                    | 2,580        | 87         | 2,553        | 123        | 152        | 70         | 39             | 271        | 2,858        | 3,017        |
| <b>Collective days stay—</b>   |              |            |              |            |            |            |                |            |              |              |
| Totals.....                    | 1,001,079    | 164,232    | 993,654      | 218,518    | 59,532     | 51,042     | 56,211         | 424,046    | 1,281,054    | 1,687,260    |
| Infants born in hospital.....  | 78,172       | 8,001      | 80,002       | 5,345      | 3,871      | 2,868      | —              | 2,593      | 90,044       | 90,808       |
| All others.....                | 922,907      | 156,231    | 913,652      | 213,173    | 55,661     | 48,174     | 56,211         | 421,453    | 1,191,010    | 1,596,452    |
| Numbers of still births.....   | 185          | 20         | 199          | 8          | 9          | 6          | —              | 10         | 214          | 223          |
| <b>Financial Statistics!—</b>  |              |            |              |            |            |            |                |            |              |              |
| Maintenance receipts.....      | 3,056,746    | 380,949    | 3,056,746    | 3          | 113,437    | 3          | 5 <sup>2</sup> | 3          | 3,551,132    | 3            |
| Maintenance expenditures.....  | 3,285,646    | 398,563    | 3,285,646    | 3          | 116,684    | 3          | 213,769        | 3          | 4,014,662    | 3            |
| Gross receipts.....            | 3,193,659    | 408,312    | 3,193,659    | 3          | 113,699    | 3          | —              | 3          | 3,715,670    | 3            |
| Gross expenditures.....        | 3,458,045    | 419,599    | 3,458,045    | 3          | 121,089    | 3          | 213,769        | 3          | 4,212,502    | 3            |

<sup>1</sup> Sixty-seven general public; 6 other public (1 women's, 2 orthopedic, 1 tuberculosis and 2 Red Cross); 11 private and 3 Dominion (1 under Dept. of Pensions and National Health, 1 quarantine and 1 leper) furnished financial reports for 1932. <sup>2</sup> Operating costs borne by Dominion Government. <sup>3</sup> No financial statistics collected in 1933.

3.—Hospital Statistics, by Provinces, with Personnel, Hospital Facilities, Movement of Hospital Population, and Financial Statistics, calendar years 1932 and 1933—concluded.

| Item.                          | Public.       |              |               |              | Private.     |              | Dominion. |                       | Totals.       |               |
|--------------------------------|---------------|--------------|---------------|--------------|--------------|--------------|-----------|-----------------------|---------------|---------------|
|                                | 1932.         |              | 1933.         |              | 1932.        | 1933.        | 1932.     | 1933.                 | 1932.         | 1933.         |
|                                | General.      | Other.       | General.      | Other.       |              |              |           |                       |               |               |
| <b>Canada.</b>                 |               |              |               |              |              |              |           |                       |               |               |
| Number of hospitals.....       | 460           | 129          | 457           | 148          | 214          | 238          |           | 31                    | 838           | 874           |
| Schools of nursing.....        | 203           | 29           | 164           | 24           | 9            | 5            |           | —                     | 241           | 193           |
| <b>Personnel—</b>              |               |              |               |              |              |              |           |                       |               |               |
| Salaried physicians.....       | 353           | 185          | 322           | 204          | 57           | 51           |           | 131                   | 726           | 695           |
| Internes.....                  | 604           | 109          | 525           | 100          | 12           | 12           |           | 6                     | 731           | 632           |
| Graduate nurses.....           | 3,782         | 933          | 3,884         | 1,116        | 294          | 369          |           | 201                   | 5,210         | 5,579         |
| Student nurses.....            | 8,291         | 1,213        | 6,818         | 83           | 109          | 93           |           | —                     | 7,693         | 7,693         |
| All others.....                | 11,696        | 3,713        | 13,005        | 5,227        | 591          | 713          |           | 771                   | 16,771        | 13,569        |
| <b>Totals, Personnel.....</b>  | <b>24,726</b> | <b>6,155</b> | <b>24,601</b> | <b>7,429</b> | <b>1,063</b> | <b>1,216</b> |           | <b>1,109</b>          | <b>33,053</b> | <b>34,165</b> |
| Attending doctors.....         | 8,034         | 1,806        | 6,389         | 1,298        | 1,531        | 1,319        |           | 128                   | 11,499        | 9,139         |
| <b>Hospital Facilities—</b>    |               |              |               |              |              |              |           |                       |               |               |
| X-Ray.....                     | 383           | 48           | 383           | 52           | 39           | 38           |           | 12                    | 482           | 486           |
| Clinical laboratory.....       | 250           | 51           | 224           | 40           | 35           | 32           |           | 13                    | 349           | 302           |
| Physio-therapy.....            | 145           | 30           | 163           | 24           | 28           | 31           |           | 12                    | 215           | 233           |
| <b>Movement of Population—</b> |               |              |               |              |              |              |           |                       |               |               |
| Admissions.....                | 494,535       | 62,065       | 504,247       | 58,058       | 18,249       | 19,926       |           | 13,912                | 588,761       | 608,480       |
| Live births.....               | 55,803        | 7,845        | 55,042        | 7,358        | 3,424        | 3,692        |           | 209                   | 67,294        | 66,538        |
| Totals under treatment.....    | 572,100       | 78,745       | 580,902       | 79,730       | 22,469       | 24,489       |           | 16,051                | 689,356       | 714,043       |
| Discharges.....                | 532,866       | 59,938       | 536,074       | 61,779       | 20,637       | 22,961       |           | 13,907                | 627,348       | 634,537       |
| Deaths.....                    | 22,980        | 3,472        | 22,915        | 4,100        | 583          | 584          |           | 307                   | 27,342        | 28,091        |
| Collective days stay—          |               |              |               |              |              |              |           |                       |               |               |
| Totals.....                    | 8,431,441     | 3,437,167    | 8,527,202     | 5,009,696    | 351,487      | 360,965      |           | 796,044               | 12,954,062    | 14,693,907    |
| Infants born in hospital.....  | 637,461       | 223,012      | 629,567       | 237,767      | 42,093       | 43,065       |           | 5,186                 | 905,139       | 915,585       |
| All others.....                | 7,793,980     | 3,214,155    | 7,897,635     | 4,771,929    | 309,394      | 317,900      |           | 790,858               | 12,048,923    | 13,778,322    |
| Numbers of still births.....   | 2,441         | 305          | 2,251         | 468          | 138          | 155          |           | 4                     | 2,893         | 2,894         |
| <b>Financial Statistics!—</b>  |               |              |               |              |              |              |           |                       |               |               |
| Maintenance receipts.....      | \$ 25,242,249 | \$ 7,845,456 | \$ 25,242,249 | \$ 4         | \$ 954,273   | \$ 4         |           | \$ 4,832 <sup>2</sup> | \$ 34,046,810 | \$ 4          |
| Maintenance expenditures.....  | \$ 21,925,186 | \$ 7,685,218 | \$ 21,925,186 | \$ 4         | \$ 871,502   | \$ 4         |           | \$ 1,632,984          | \$ 32,114,890 | \$ 4          |
| Gross receipts.....            | \$ 25,394,596 | \$ 8,566,668 | \$ 25,394,596 | \$ 4         | \$ 876,697   | \$ 4         |           | \$ 4,832              | \$ 34,842,793 | \$ 4          |
| Gross expenditures.....        | \$ 27,565,756 | \$ 9,858,008 | \$ 27,565,756 | \$ 4         | \$ 926,699   | \$ 4         |           | \$ 1,635,142          | \$ 39,985,605 | \$ 4          |

<sup>1</sup> See preceding statements for each province, for numbers of hospitals included. <sup>2</sup> Figures given include Dominion hospitals in Nova Scotia and Quebec only. <sup>3</sup> Operating costs borne by Dominion Government. <sup>4</sup> No financial statistics collected in 1933.

**Out-Patient Departments.**—Out-patient departments as here reported include those institutions where medical or surgical treatment may be obtained either gratuitously or for a nominal fee, but which do not receive resident patients.

Out-patient departments, or clinics, are operated independently or in connection with a hospital, medical college, university or other institution. The dispensary or clinic in connection with a hospital is generally the out-patient department of the hospital and treats patients who do not occupy beds in the hospital. Sometimes, however, the out-patient department is distinct from the hospital proper and is a separate institution with its own staff, etc. The extension of out-patient services to patients of modest means has far-reaching and beneficial effects. It may replace admission to a hospital, or may serve to secure necessary and beneficial hospitalization. As a general rule, out-patient departments are subsidized from the funds of the general hospital and separate records are not kept. Until a uniform system of accounting is adopted, it is not possible to give the average cost per patient.

**4.—Patients Treated and Treatments Given in Out-Patient Departments of Hospitals in Canada, Excluding Mental Hospitals, calendar year 1933.**

| Province or Territory.                  | O. P. Depts. |                      | Patients. |         |                      | Treatments. |           |                        |
|-----------------------------------------|--------------|----------------------|-----------|---------|----------------------|-------------|-----------|------------------------|
|                                         | Total        | Re-<br>port-<br>ing. | Pay.      | Free.   | Total.               | Pay.        | Free.     | Total.                 |
|                                         | No.          | No.                  | No.       | No.     | No.                  | No.         | No.       | No.                    |
| Prince Edward Island <sup>1</sup> ..... | 8            | 4                    | 134       | 4,135   | 4,269                | 578         | 15,486    | 16,064                 |
| Nova Scotia.....                        | 7            | 2                    | 43        | 8,173   | 8,216                | 667         | 24,995    | 25,662                 |
| New Brunswick.....                      | 41           | 37                   | 23,142    | 234,875 | 258,119 <sup>4</sup> | 166,699     | 1,179,307 | 1,563,938 <sup>5</sup> |
| Quebec.....                             | 30           | 28                   | 1,212     | 69,882  | 74,739 <sup>4</sup>  | 19,794      | 530,933   | 820,709 <sup>5</sup>   |
| Ontario.....                            | 13           | 11                   | 2,018     | 48,479  | 50,497               | 3,125       | 104,189   | 107,317                |
| Manitoba.....                           | 12           | 6                    | 1,081     | 4,697   | 5,778                | 1,571       | 2,477     | 4,048                  |
| Saskatchewan.....                       | 21           | 13                   | 2,622     | 5,613   | 8,235                | 844         | 32,460    | 33,304                 |
| Alberta.....                            | 21           | 16                   | 11,667    | 11,705  | 31,039 <sup>4</sup>  | 22,253      | 59,237    | 81,519 <sup>5</sup>    |
| British Columbia.....                   | 2            | 2                    | —         | 541     | 541                  | —           | 1,099     | 1,099                  |
| Northwest Territories and<br>Yukon..... | 155          | 119                  | 41,919    | 387,077 | 441,433 <sup>4</sup> | 215,534     | 1,950,183 | 2,653,660 <sup>5</sup> |
| <b>Canada.....</b>                      |              |                      |           |         |                      |             |           |                        |

<sup>1</sup>Includes 199,105 patients for whom no records of treatments were made.

<sup>2</sup>Includes 1,140,095 treatments for which patients treated were not recorded.

<sup>3</sup>No out-patient departments were reported for Prince Edward Island.

<sup>4</sup>Includes a number of patients not classified as either "pay" or "free".

<sup>5</sup>Includes a number of treatments not classified as "pay" or "free".

**Subsection 2.—Mental Hospitals.**

Census statistics regarding the number of insane and feeble-minded in Canada were first made in connection with the decennial census of 1871, and general data were collected under the heading: "people of unsound mind". The Census of 1911 gave the number of insane and feeble-minded persons in Canada as 13,355, and a report for that year showed 9,671 patients in mental institutions. In 1921 figures concerning the number of patients in mental hospitals gave the number of insane as 21,516. Very little reliance can be placed on the figures before 1921, as the information was collected for patients in provincial mental hospitals only and did not include a large number of insane and feeble-minded in other institutions.

The Census of Mental Institutions of Canada was made a special feature of the Decennial Census of 1931, seven special schedules being used in the survey. Special features of the census were: separate classification of first admissions from re-admissions; classification of resident patients with particular reference to mental diagnosis; collection of data *re* ex-service men; urban and rural data; paroles; administrative personnel; values and acreages of hospital plants, etc.



The total number of institutions caring for the insane in 1933 was 60, including 29 public hospitals for the insane, 6 private hospitals for mental and nervous diseases, 5 public hospitals for feeble-minded children, 16 county asylums, 2 Dominion hospitals and 2 psychiatric hospitals for the insane.

Of the above 60 institutions, 58 reported as to staff and patients, and 55 regarding their finances. Statistics of capacity, staff and finances are presented by provinces in Table 5, and statistics of the movement of patient population in Table 6.

5.—Statistics of Capacity, Staff and Finances of Mental Institutions in Canada, by Provinces, 1933.

| Item.                                                        | Prince<br>Edward<br>Island. | Nova<br>Scotia. | New<br>Brunswick. | Quebec.          | Ontario.         |
|--------------------------------------------------------------|-----------------------------|-----------------|-------------------|------------------|------------------|
|                                                              | No.                         | No.             | No.               | No.              | No.              |
| Numbers of institutions.....                                 | 1                           | 18              | 1                 | 9                | 16               |
| Normal capacities.....                                       | 300                         | 2,110           | 900               | 8,945            | 12,263           |
| <b>Staff—</b>                                                |                             |                 |                   |                  |                  |
| Doctors, full time.....                                      | 2                           | 5               | 2                 | 49               | 109              |
| “ part time.....                                             | —                           | 14              | 1                 | 22               | 15               |
| Graduate nurses.....                                         | 9                           | 25              | 1                 | 179              | 433              |
| Other nurses.....                                            | 8                           | 67              | 51                | 549              | 506              |
| <b>Totals, Staff.....</b>                                    | <b>62</b>                   | <b>317</b>      | <b>91</b>         | <b>1,669</b>     | <b>2,727</b>     |
| Institutions reporting financial standing <sup>1</sup> ..... | —                           | 18              | 1                 | 8                | 15               |
| <b>Receipts—</b>                                             |                             |                 |                   |                  |                  |
| Government and municipal payments.....\$                     | —                           | 463,064         | 171,656           | 1,404,900        | 3,164,780        |
| Fees from paying patients.....\$                             | —                           | 19,286          | 27,885            | 916,136          | 1,066,262        |
| Received from other sources.....\$                           | —                           | 3,944           | 365               | 418,535          | 475,003          |
| <b>Totals, Receipts.....\$</b>                               | <b>—</b>                    | <b>486,294</b>  | <b>199,906</b>    | <b>2,739,571</b> | <b>4,705,985</b> |
| <b>Expenditures—</b>                                         |                             |                 |                   |                  |                  |
| Salaries.....\$                                              | —                           | 199,865         | 50,925            | 538,917          | 2,294,187        |
| Provisions.....\$                                            | —                           | 123,752         | 60,212            | 460,920          | 638,443          |
| All other expenditures for maintenance.....\$                | —                           | 159,512         | 88,769            | 793,074          | 1,638,209        |
| <b>Totals, Expenditures for Maintenance.....\$</b>           | <b>—</b>                    | <b>483,129</b>  | <b>199,906</b>    | <b>1,792,911</b> | <b>4,570,839</b> |
| New buildings and improvements.....\$                        | —                           | 3,438           | —                 | 495,299          | 104,963          |
| Expenditures for other purposes.....\$                       | —                           | 381             | —                 | 407,769          | 3,067            |
| <b>Totals, Expenditures.....\$</b>                           | <b>—</b>                    | <b>486,948</b>  | <b>199,906</b>    | <b>2,695,979</b> | <b>4,678,869</b> |

| Item.                                                        | Manitoba.      | Saskatchewan.  | Alberta.       | British Columbia. | Canada.           |
|--------------------------------------------------------------|----------------|----------------|----------------|-------------------|-------------------|
|                                                              | No.            | No.            | No.            | No.               | No.               |
| Numbers of institutions.....                                 | 4              | 2              | 4              | 5                 | 60                |
| Normal capacities.....                                       | 2,244          | 2,450          | 1,983          | 2,291             | 33,486            |
| <b>Staff—</b>                                                |                |                |                |                   |                   |
| Doctors, full time.....                                      | 18             | 10             | 11             | 10                | 216               |
| “ part time.....                                             | —              | —              | —              | 3                 | 55                |
| Graduate nurses.....                                         | 58             | 8              | 38             | 21                | 772               |
| Other nurses.....                                            | 112            | 91             | 66             | 112               | 1,562             |
| <b>Totals, Staff.....</b>                                    | <b>521</b>     | <b>403</b>     | <b>403</b>     | <b>439</b>        | <b>6,632</b>      |
| Institutions reporting financial standing <sup>2</sup> ..... | 4              | 2              | 3              | 4                 | 55                |
| <b>Receipts—</b>                                             |                |                |                |                   |                   |
| Government and municipal payments.....\$                     | 710,608        | 680,359        | 639,154        | 834,509           | 8,069,032         |
| Fees from paying patients.....\$                             | 70,488         | 80,759         | 68,768         | 144,739           | 2,394,263         |
| Received from other sources.....\$                           | 19,183         | 2,521          | 12,238         | —                 | 931,790           |
| <b>Totals, Receipts.....\$</b>                               | <b>800,279</b> | <b>763,639</b> | <b>720,160</b> | <b>979,248</b>    | <b>11,395,085</b> |
| <b>Expenditures—</b>                                         |                |                |                |                   |                   |
| Salaries.....\$                                              | 355,782        | 384,833        | 415,419        | 417,885           | 4,657,815         |
| Provisions.....\$                                            | 180,778        | 134,034        | 131,910        | 241,080           | 1,971,132         |
| All other expenditures for maintenance.....\$                | 241,822        | 244,772        | 149,003        | 298,945           | 3,614,106         |
| <b>Totals, Expenditures for Maintenance.....\$</b>           | <b>778,382</b> | <b>763,639</b> | <b>696,332</b> | <b>957,910</b>    | <b>10,243,053</b> |
| New buildings and improvements.....\$                        | 7,106          | —              | 13,866         | 21,338            | 646,010           |
| Expenditures for other purposes.....\$                       | 14,791         | —              | —              | —                 | 426,008           |
| <b>Totals, Expenditures.....\$</b>                           | <b>800,279</b> | <b>763,639</b> | <b>710,198</b> | <b>979,248</b>    | <b>11,315,071</b> |

<sup>1</sup>The Hollywood Sanitarium, New Westminster, B.C., and the Provincial Auxiliary Hospital, Claresholm, Alta., did not report regarding staff.

<sup>2</sup>Financial figures for Falconwood Hospital, Charlottetown, P.E.I., Ste. Anne's Hospital, Ste. Anne de Bellevue, Que., Westminster Hospital, London, Ont., Provincial Auxiliary Hospital, Claresholm, Alta., and Hollywood Sanitarium, New Westminster, B.C., are not included in this table.

# 6.—Movement of Patient Population in Mental Hospitals of Canada, by Provinces, calendar year 1933.

| Item.                                     | Prince<br>Edward<br>Island. | Nova<br>Scotia. | New<br>Brunswick. | Quebec. | Ontario. |
|-------------------------------------------|-----------------------------|-----------------|-------------------|---------|----------|
|                                           | No.                         | No.             | No.               | No.     | No.      |
| Institutions reporting.....               | 1                           | 18              | 1                 | 9       | 16       |
| Normal capacities.....                    | 300                         | 2,110           | 900               | 8,945   | 12,263   |
| Patients at Jan. 1, 1933—                 |                             |                 |                   |         |          |
| Insane.....                               | 252                         | 1,487           | 809               | 7,913   | 9,809    |
| Mental deficient (without psychosis)..... | 7                           | 352             | 88                | 2,375   | 2,118    |
| Epileptics (without psychosis).....       | 3                           | 11              | —                 | 156     | 276      |
| Totals, Patients, at Jan. 1, 1933.....    | 262                         | 1,850           | 897               | 10,444  | 12,203   |
| ADMISSIONS—                               |                             |                 |                   |         |          |
| First Admissions—                         |                             |                 |                   |         |          |
| Insane.....                               | 43                          | 320             | 112               | 1,701   | 2,375    |
| Mental deficient (without psychosis)..... | 4                           | 37              | 12                | 432     | 523      |
| Epileptics (without psychosis).....       | 1                           | 1               | —                 | 53      | 57       |
| Totals, First Admissions.....             | 48                          | 358             | 124               | 2,186   | 2,955    |
| Re-admissions—                            |                             |                 |                   |         |          |
| Insane.....                               | 27                          | 85              | 40                | 372     | 618      |
| Mental deficient (without psychosis)..... | 2                           | 7               | 1                 | 15      | 36       |
| Epileptics (without psychosis).....       | —                           | —               | —                 | 3       | 4        |
| Totals, Re-admissions.....                | 29                          | 92              | 41                | 390     | 658      |
| Transfers—                                |                             |                 |                   |         |          |
| Insane.....                               | —                           | 13              | —                 | 12      | 254      |
| Mental deficient (without psychosis)..... | —                           | —               | —                 | 35      | 38       |
| Epileptics (without psychosis).....       | —                           | —               | —                 | —       | 6        |
| Totals, Transfers.....                    | —                           | 13              | —                 | 47      | 298      |
| TOTALS, ADMISSIONS—                       |                             |                 |                   |         |          |
| Insane.....                               | 70                          | 418             | 152               | 2,085   | 3,247    |
| Mental deficient (without psychosis)..... | 6                           | 44              | 13                | 482     | 597      |
| Epileptics (without psychosis).....       | 1                           | 1               | —                 | 56      | 67       |
| Grand Totals, Admissions.....             | 77                          | 463             | 165               | 2,623   | 3,911    |
| SEPARATIONS—                              |                             |                 |                   |         |          |
| Discharges—                               |                             |                 |                   |         |          |
| Insane.....                               | 55                          | 199             | 90                | 1,188   | 1,891    |
| Mental deficient (without psychosis)..... | 5                           | 14              | 2                 | 189     | 284      |
| Epileptics (without psychosis).....       | —                           | —               | —                 | 11      | 16       |
| Totals, Discharges.....                   | 60                          | 213             | 92                | 1,388   | 2,191    |
| Transfers—                                |                             |                 |                   |         |          |
| Insane.....                               | —                           | 13              | —                 | 14      | 249      |
| Mental deficient (without psychosis)..... | —                           | —               | —                 | 33      | 39       |
| Epileptics (without psychosis).....       | —                           | —               | —                 | —       | 14       |
| Totals, Transfers.....                    | —                           | 13              | —                 | 47      | 298      |
| Deaths—                                   |                             |                 |                   |         |          |
| Insane.....                               | 21                          | 121             | 64                | 581     | 676      |
| Mental deficient (without psychosis)..... | 1                           | 14              | 4                 | 94      | 38       |
| Epileptics (without psychosis).....       | —                           | —               | —                 | 9       | 12       |
| Totals, Deaths.....                       | 22                          | 135             | 68                | 684     | 726      |
| TOTALS, SEPARATIONS—                      |                             |                 |                   |         |          |
| Insane.....                               | 76                          | 333             | 154               | 1,783   | 2,816    |
| Mental deficient (without psychosis)..... | 6                           | 28              | 6                 | 316     | 361      |
| Epileptics (without psychosis).....       | —                           | —               | —                 | 20      | 38       |
| Grand Totals, Separations.....            | 82                          | 361             | 160               | 2,119   | 3,215    |
| PATIENTS AT DEC. 31, 1933—                |                             |                 |                   |         |          |
| Insane.....                               | 246                         | 1,572           | 807               | 8,215   | 10,240   |
| Mental deficient (without psychosis)..... | 7                           | 368             | 95                | 2,541   | 2,354    |
| Epileptics (without psychosis).....       | 4                           | 12              | —                 | 192     | 305      |
| Totals, Patients, at Dec. 31, 1933.....   | 257                         | 1,952           | 902               | 10,948  | 12,899   |

**6.—Movement of Patient Population in Mental Hospitals of Canada, by Provinces,  
calendar year 1933—concluded.**

| Item.                                     | Manitoba. | Saskatchewan. | Alberta. | British Columbia. | Canada. |
|-------------------------------------------|-----------|---------------|----------|-------------------|---------|
|                                           | No.       | No.           | No.      | No.               | No.     |
| Institutions reporting.....               | 4         | 2             | 4        | 4 <sup>1</sup>    | 59      |
| Normal capacities.....                    | 2,244     | 2,450         | 1,983    | 2,256             | 33,451  |
| Patients at Jan. 1, 1933—                 |           |               |          |                   |         |
| Insane.....                               | 1,976     | 2,122         | 1,579    | 2,505             | 28,452  |
| Mental deficient (without psychosis)..... | 461       | 438           | 263      | 391               | 6,493   |
| Epileptics (without psychosis).....       | 4         | 1             | 2        | —                 | 453     |
| Totals, Patients, at Jan. 1, 1933.....    | 2,441     | 2,561         | 1,844    | 2,896             | 35,398  |
| ADMISSIONS—                               |           |               |          |                   |         |
| First Admissions—                         |           |               |          |                   |         |
| Insane.....                               | 571       | 424           | 336      | 445               | 6,327   |
| Mental deficient (without psychosis)..... | 34        | 56            | 59       | 56                | 1,213   |
| Epileptics (without psychosis).....       | 2         | 3             | 4        | —                 | 121     |
| Totals, First Admissions.....             | 607       | 483           | 399      | 501               | 7,661   |
| Re-admissions—                            |           |               |          |                   |         |
| Insane.....                               | 109       | 136           | 92       | 104               | 1,583   |
| Mental deficient (without psychosis)..... | 5         | 12            | 8        | 6                 | 92      |
| Epileptics (without psychosis).....       | —         | —             | —        | —                 | 7       |
| Totals, Re-admissions.....                | 114       | 148           | 100      | 110               | 1,682   |
| Transfers—                                |           |               |          |                   |         |
| Insane.....                               | —         | —             | 102      | —                 | 381     |
| Mental deficient (without psychosis)..... | —         | —             | 15       | —                 | 88      |
| Epileptics (without psychosis).....       | —         | —             | —        | —                 | 6       |
| Totals, Transfers.....                    | —         | —             | 117      | —                 | 475     |
| TOTALS, ADMISSIONS—                       |           |               |          |                   |         |
| Insane.....                               | 680       | 560           | 530      | 549               | 8,291   |
| Mental deficient (without psychosis)..... | 39        | 68            | 82       | 62                | 1,393   |
| Epileptics (without psychosis).....       | 2         | 3             | 4        | —                 | 134     |
| Grand Totals, Admissions.....             | 721       | 631           | 616      | 611 <sup>1</sup>  | 9,818   |
| SEPARATIONS—                              |           |               |          |                   |         |
| Discharges—                               |           |               |          |                   |         |
| Insane.....                               | 529       | 335           | 268      | 261               | 4,816   |
| Mental deficient (without psychosis)..... | 15        | 12            | 30       | 16                | 567     |
| Epileptics (without psychosis).....       | 1         | 1             | 6        | —                 | 35      |
| Totals, Discharges.....                   | 545       | 348           | 304      | 277               | 5,418   |
| Transfers—                                |           |               |          |                   |         |
| Insane.....                               | —         | —             | 102      | —                 | 378     |
| Mental deficient (without psychosis)..... | —         | —             | 15       | —                 | 87      |
| Epileptics (without psychosis).....       | —         | —             | —        | —                 | 10      |
| Totals, Transfers.....                    | —         | —             | 117      | —                 | 475     |
| Deaths—                                   |           |               |          |                   |         |
| Insane.....                               | 100       | 137           | 69       | 193               | 1,962   |
| Mental deficient (without psychosis)..... | 10        | 18            | 9        | 17                | 205     |
| Epileptics (without psychosis).....       | —         | —             | —        | —                 | 21      |
| Totals, Deaths.....                       | 110       | 155           | 78       | 210               | 2,188   |
| TOTALS, SEPARATIONS—                      |           |               |          |                   |         |
| Insane.....                               | 629       | 472           | 439      | 454               | 7,156   |
| Mental deficient (without psychosis)..... | 25        | 30            | 54       | 33                | 859     |
| Epileptics (without psychosis).....       | 1         | 1             | 6        | —                 | 66      |
| Grand Totals, Separations.....            | 655       | 503           | 499      | 487 <sup>1</sup>  | 8,081   |
| PATIENTS AT DEC. 31, 1933—                |           |               |          |                   |         |
| Insane.....                               | 2,027     | 2,210         | 1,670    | 2,600             | 29,587  |
| Mental deficient (without psychosis)..... | 475       | 476           | 291      | 420               | 7,027   |
| Epileptics (without psychosis).....       | 6         | 3             | —        | —                 | 521     |
| Totals, Patients, at Dec. 31, 1933.....   | 2,507     | 2,689         | 1,961    | 3,020             | 37,135  |

<sup>1</sup>The Hollywood Sanitarium, New Westminster, B.C., did not report.

### Subsection 3.—Child-Caring Institutions, Refuges for Adults, Homes for Incurables, etc.\*

Although homes for incurables supply maintenance, nursing, medical and surgical aid to persons suffering from chronic and incurable diseases, the nature of the services given is such as to call for a special tabulation. Many hospitals for incurables care not only for those suffering from incurable diseases but also for the aged and indigent, and some even take care of orphans of both sexes.

In the case of general hospitals the service given both on economic and humanitarian grounds is to restore the patient to working efficiency in the community as soon as possible. The hospital or home for incurables looks after the patient whose affliction is of a more or less permanent nature incapacitating him from any possibility of earning a living. The movement of population is necessarily slow, discharges being generally due to death. The class of care given differs from that given in general hospitals, owing to the fact that the inmates tend to become institutionalized and need the care of a physician less frequently.

Summarized statistics of the 22 homes and hospitals for incurables reporting for 1932 will be found in Table 7.

\*For census material on child-caring institutions, day nurseries and refuges for adults, see 1932 Year Book, pp. 893-895.

### 7.—Summary Statistics of Homes and Hospitals for Incurables, calendar year 1932.

NOTE.—Infirmary Home, Montreal; St. Boniface Home, St. Boniface, Man.; and Lacombe Home, Midsnapore, Alta. are connected with other institutions and financial figures cannot be supplied.

| Item.                                                                                   | New Brunswick. | Quebec.        | Ontario.       | Manitoba. | Saskatchewan. | Alberta.      | British Columbia. | Canada.          |
|-----------------------------------------------------------------------------------------|----------------|----------------|----------------|-----------|---------------|---------------|-------------------|------------------|
| Numbers of Institutions...                                                              | 1              | 6              | 7              | 1         | 2             | 4             | 1                 | 22               |
| Bed capacities.....                                                                     | 34             | 988            | 891            | 330       | 192           | 190           | 180               | 2,805            |
| <b>Staff—</b>                                                                           |                |                |                |           |               |               |                   |                  |
| Salaried physicians....                                                                 | —              | 8              | 7              | 1         | 1             | —             | 1                 | 18               |
| Graduate nurses.....                                                                    | 1              | 5              | 82             | 7         | 3             | 2             | 4                 | 104              |
| Totals, Personnel.....                                                                  | 12             | 569            | 442            | 110       | 34            | 54            | 40                | 1,261            |
| Average numbers of patients per day.....                                                | 31             | 781            | 772            | 274       | 158           | 160           | 166               | 2,342            |
| Admissions during 1932....                                                              | 6              | 315            | 402            | 110       | 34            | 64            | 46                | 977              |
| Totals under treatment during 1932.....                                                 | 32             | 940            | 1,145          | 409       | 192           | 234           | 215               | 3,167            |
| Numbers discharged during 1932.....                                                     | 1              | 157            | 111            | 103       | 11            | 48            | 13                | 444              |
| Deaths during 1932.....                                                                 | 8              | 105            | 212            | 50        | 26            | 36            | 42                | 479              |
| Collective days stay during 1932.....                                                   | 11,233         | 284,758        | 281,533        | 100,218   | 56,622        | 58,529        | 60,770            | 853,663          |
| Patients paying in full for treatment.....                                              | 11             | 286            | 142            | 16        | 23            | 12            | 7                 | 497              |
| Patients paying in part for treatment.....                                              | 4              | 141            | 140            | 4         | 12            | 21            | 13                | 335              |
| Patients receiving free care but paid for by provincial, municipal and other funds..... | —              | 335            | 839            | 369       | 100           | 184           | 150               | 1,977            |
| Indigents receiving free treatment.....                                                 | 17             | 178            | 24             | 20        | 57            | 17            | 45                | 358              |
| <b>Receipts—</b>                                                                        |                |                |                |           |               |               |                   |                  |
| Grants and public maintenance receipts.....\$                                           | 375            | 32,113         | 529,644        | 1         | 37,929        | 21,938        | 4,756             | 626,755          |
| Receipts from paying patients.....\$                                                    | 6,207          | 90,542         | 91,242         | 1         | 10,130        | 11,835        | 53,816            | 263,772          |
| All other receipts.....\$                                                               | 13,846         | 39,929         | 59,938         | 1         | —             | 9,572         | 2,616             | 125,901          |
| <b>Totals, Receipts.....\$</b>                                                          | <b>20,428</b>  | <b>162,584</b> | <b>680,824</b> | <b>1</b>  | <b>48,059</b> | <b>43,345</b> | <b>61,188</b>     | <b>1,016,428</b> |
| <b>Expenditures—</b>                                                                    |                |                |                |           |               |               |                   |                  |
| Salaries and wages.....\$                                                               | 5,784          | 31,352         | 235,606        | 1         | 15,948        | 14,943        | 24,352            | 327,985          |
| Provisions, (food, etc.) \$                                                             | 3,175          | 48,593         | 107,365        | 1         | 14,038        | 13,499        | 17,517            | 204,187          |
| Fuel, power, light and water.....\$                                                     | 365            | 24,135         | 44,612         | 1         | 3,954         | 4,066         | 5,275             | 82,407           |
| All other expenditures.....\$                                                           | 8,226          | 96,545         | 350,339        | 1         | 4,738         | 10,734        | 14,044            | 484,626          |
| <b>Totals, Expenditures.....\$</b>                                                      | <b>17,550</b>  | <b>200,625</b> | <b>737,922</b> | <b>1</b>  | <b>38,678</b> | <b>43,242</b> | <b>61,188</b>     | <b>1,099,205</b> |

<sup>1</sup>No financial statistics available.



## CHAPTER XXVII.—JUDICIAL AND PENITENTIARY STATISTICS.\*

**Canadian Criminal Law and Procedure.**—The system under which justice is administered in a State is never rigid. This is neither expedient nor indeed possible. The judicial system must grow and adapt itself to the requirements of the people, and the exact limits of the powers of the Dominion and provincial legislative bodies have required and will still require added definition by the courts.

The exclusive legislative authority of the Parliament of Canada extends to criminal law throughout the Dominion. This law is based on the common law of England, built up through the ages and consisting first of customs and usages and later of principles enunciated by generations of judges and introduced into Canada, as regards criminal law, by Royal Proclamation, 1763.

The judicial systems of the provinces as they exist to-day are based upon the British North America Act of 1867. Section 91 provides that "the exclusive legislative authority of the Parliament of Canada extends to...the criminal law, except the constitution of courts of criminal jurisdiction, but including the procedure in criminal matters". In each province (Sec. 92, ss. 14), the Legislature may exclusively make laws in relation to "the administration of justice in the province, including the constitution, maintenance and organization of provincial courts, both of civil and of criminal jurisdiction and including procedure in civil matters in those courts". The Parliament of Canada, may, however, (Sec. 101) establish any additional courts for the better administration of the laws of Canada.

It is frequently difficult to distinguish between "Law" and "Procedure". Procedure may be interpreted to relate simply to the organic working of the courts, but in a wider sense it may also affect the rights or alter the legal relations arising out of any given set of facts.

The mass of statutes resulting from the fact that, prior to Confederation, each province had its own criminal jurisprudence, caused great and increasing inconvenience. This led to the adoption of various consolidation Acts, the chief of which are the Criminal Law and Amendment Acts of 1869 and the Criminal Procedure Act of 1886. These Acts dealt exhaustively with procedure in respect of indictable and non-indictable offences, jurisdiction of justices of the peace, juvenile offenders, speedy trials, criminal law, schedules and forms, etc.

In the meantime various efforts had been made in England for the reduction of the criminal law of that country into the form of a code, culminating in a draft code, submitted to the Imperial House of Commons in 1880. The question then arose as to the desirability of codifying the Canadian law. Objections were raised that codification would arrest the development of the law and its gradual adaptation to the habits and wants of the community, and would substitute a fixed, inelastic system for one which possessed the power of adjustment to circumstances. But the advantages of a codification of the law of crimes were finally so manifest that

\*Revised by H. M. Boyd, Acting Chief Statistician on Criminal Statistics, Dominion Bureau of Statistics. The fifty-eighth Annual Report of Statistics of Criminal and Other Offences, for the year ended Sept. 30, 1933, is obtainable on application, from the Dominion Bureau of Statistics.

a bill founded on the English draft code of 1880, Stephen's Digest of Criminal Law, Burbidge's Digest of the Canadian Criminal Law, and on the Canadian statutory law, and introduced by the then Minister of Justice, Sir John Thompson, passed both Houses and became law July 1, 1893.

Crimes were formerly divided into two main classes: felonies, and misdemeanours. A felony was a crime involving forfeiture of property and of civil rights. The code has abolished this distinction and has classified offences as indictable and non-indictable. The term "indictable" means an offence which is triable on an indictment, that is to say the legal process by which a bill of indictment is preferred to, and presented by, a grand jury. An indictment differs from an information which rests only on presentation by the prosecuting authority, and properly from a presentment, which is an accusation originating with the grand jury. The word is sometimes loosely used, however, to include an information or presentment or both. Many cases of indictable offences are proceeded with, without a formal indictment. Furthermore certain cases triable on indictment may also be disposed of summarily by a magistrate, according to the severity or circumstances of the cases.

Non-indictable offences include cases usually dealt with summarily by police magistrates under the Summary Convictions Act, and comprise breaches of municipal regulations and other minor offences.

According to the provisions of the code, indictable offences are triable by jury but, in cases other than those listed below, the accused is accorded the right of election whether he be tried by jury, or before a judge without the intervention of a jury under the Speedy Trials Act, or before a magistrate under the Summary Trials Act. The jurisdiction of the magistrate is absolute, however, in certain cases and does not depend on the consent of the accused. Cases triable by jury without the consent of the accused are: treason, treasonable offences, assaults on the King, mutiny, unlawfully obtaining and communicating official information, taking of oath to commit certain crimes, seditious offences, libels on foreign sovereigns, piracy, corruption of officers employed in prosecuting offenders, frauds on the Government, breach of trust of public officers, municipal corruption, selling of appointments to any office, murder, attempt to murder, conspiracy to murder, accessory after the fact to murder, manslaughter, rape, attempt to commit rape, defamatory libel, combination in restraint of trade, for conspiring or attempting to commit, or being accessory after the fact to any of the above offences, also for bribery or undue influence, personation or other corrupt practice under the Dominion Elections Act. Also, where an offence is punishable with imprisonment for a period exceeding five years the Attorney General may require the charge to be tried by a jury.

In the province of Quebec a district magistrate has powers extending beyond those of a magistrate in any other province. He has the same jurisdiction as a county court judge in Ontario, and disposes of cases under the Speedy Trials Act, whereas the jurisdiction of the magistrates of other provinces extends only to the Summary Convictions Act and the Summary Trials Act.

Capital cases for the first twelve or fifteen years after Confederation included, besides murders, death sentences for attempts at murder, piracy, burglary, violation of females and levying war. The list of capital offences is now: levying war, murder,

piracy in cases of violence, rape, and treason. This is a drastic modification in the code from that which obtained a century and a half ago. In 1764, according to Blackstone, there were in England 160 capital offences on the Statute Book. It is stated that there was a strong feeling against the accompanying wholesale hangings and that judges and juries resorted to all sorts of subterfuges to evade the letter of the law. The work of practical reform and modification was slow, however, owing to the opposition of the House of Lords, but the days of the indiscriminating infliction of capital punishment ended with the passage of the Reform Bill in 1832, at which time forty kinds of forgery and many less serious offences were still capital crimes.

The statistics presented in the tables that follow, which are summarized from the Annual Report of Statistics of Criminal and Other Offences, are collected directly from the criminal courts in the different judicial districts throughout the Dominion. There are 154 judicial districts, including 4 sub-districts, divided as to provinces as follows: Prince Edward Island 3, Nova Scotia 18, New Brunswick 15, Quebec 23, Ontario 47, Manitoba 6, Saskatchewan 19, Alberta 14, British Columbia 8 and Yukon 1. The figures for the Northwest Territories are obtained from the reports of the Royal Canadian Mounted Police.

### Section 1.—General Tables.

The statistics relate to years ended Sept. 30, the latest report being for 1933. Beginning with the report for 1922, an enlargement of the classification of offences has been adopted, by which offences of juvenile offenders are compiled separately from those of adults. The term "indictable" applies to offences of adults only, similar offences committed by juveniles being termed "major" offences; similarly, "non-indictable" offences of adults are termed "minor" offences when attributed to juveniles. All current tables have been worked out for 1922 and subsequent years in accordance with the new classification, but a comparative historical table, giving the totals for different classes of criminal offences and minor offences, *including those of juvenile delinquents*, is here published (Table 1), together with a more detailed table for recent years (Table 2). In the consideration of the former it should be remembered that, while the criminal code undergoes little change over periods of time, the figures of summary convictions are influenced very much by the changing customs of the people, and are apt to increase with the increasing urbanization of the population. The most significant column of Table 1 is the figure of criminal offences per 100,000 of population. Attention may be drawn to the increase in the proportion of both criminal offences and minor offences to population in recent years, convictions for criminal offences having risen from 284 per 100,000 population in 1921 to 402 in 1932 and 411 in 1933, and convictions for minor offences from 1,732 per 100,000 in 1921 to 2,842 in 1932 and 2,799 in 1933.

It should be understood that the classification of offences in these general tables is irrespective of the mode of procedure. That is to say, the "criminal" cases include many indictable offences disposed of summarily under the Summary Trials Act. Hence any addition of indictable and major and minor offences, as shown in other tables, will not agree with the figures given in Tables 1 and 2. The object here is to show a broad historical record of criminal and minor offences respectively.

# 1.—Convictions for Criminal Offences, by Classes, and Total Convictions for Minor Offences, with Proportions to Population, years ended Sept. 30, 1911-33.

NOTE.—For figures for the years 1876-1910, see p. 993 of the 1930 Year Book.

| Year.   | Criminal Offences. |                                         |                                                 |                                                      |                                           |                               |                        | Minor Offences,<br>Total and Ratios. |                               |                        | Total<br>Criminal<br>and<br>Minor<br>Offences. |
|---------|--------------------|-----------------------------------------|-------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------|------------------------|--------------------------------------|-------------------------------|------------------------|------------------------------------------------|
|         | Offences against—  |                                         |                                                 | Other<br>Felonies<br>and<br>Misde-<br>mean-<br>ours. | Total and Ratios of<br>Criminal Offences. |                               |                        |                                      |                               |                        |                                                |
|         | The<br>Person.     | Pro-<br>perty<br>with<br>Vio-<br>lence. | Pro-<br>perty<br>with-<br>out<br>Vio-<br>lence. |                                                      |                                           |                               |                        |                                      |                               |                        |                                                |
|         | No.                | No.                                     | No.                                             | No.                                                  | No.                                       | p.c. of<br>all of-<br>fences. | per<br>100,000<br>pop. | No.                                  | p.c. of<br>all of-<br>fences. | per<br>100,000<br>pop. |                                                |
| 1911... | 8,352              | 977                                     | 9,024                                           | 1,194                                                | 19,547                                    | 17.3                          | 271                    | 93,713                               | 82.7                          | 1,300                  | 113,260                                        |
| 1912... | 9,371              | 1,195                                   | 10,626                                          | 1,540                                                | 22,732                                    | 15.5                          | 308                    | 123,795                              | 84.5                          | 1,675                  | 146,527                                        |
| 1913... | 11,444             | 1,472                                   | 12,721                                          | 1,724                                                | 27,361                                    | 15.8                          | 359                    | 145,777                              | 84.2                          | 1,910                  | 173,138                                        |
| 1914... | 12,136             | 1,810                                   | 14,645                                          | 1,952                                                | 30,543                                    | 16.7                          | 388                    | 152,492                              | 83.3                          | 1,935                  | 183,035                                        |
| 1915... | 10,664             | 2,234                                   | 14,269                                          | 1,525                                                | 28,692                                    | 18.7                          | 360                    | 124,363                              | 81.3                          | 1,558                  | 153,055                                        |
| 1916... | 9,327              | 1,478                                   | 11,018                                          | 1,459                                                | 23,282                                    | 18.8                          | 291                    | 100,509                              | 81.2                          | 1,256                  | 123,791                                        |
| 1917... | 6,852              | 1,321                                   | 9,886                                           | 1,271                                                | 19,330                                    | 16.9                          | 240                    | 94,681                               | 83.1                          | 1,175                  | 114,011                                        |
| 1918... | 7,292              | 2,049                                   | 10,743                                          | 1,390                                                | 21,474                                    | 17.4                          | 264                    | 101,795                              | 82.6                          | 1,249                  | 123,269                                        |
| 1919... | 7,731              | 2,606                                   | 11,508                                          | 1,656                                                | 23,501                                    | 18.1                          | 283                    | 106,518                              | 81.9                          | 1,282                  | 130,019                                        |
| 1920... | 8,281              | 2,310                                   | 11,634                                          | 2,059                                                | 24,284                                    | 14.9                          | 284                    | 138,424                              | 85.1                          | 1,618                  | 162,708                                        |
| 1921... | 8,197              | 2,609                                   | 12,059                                          | 2,081                                                | 24,946                                    | 14.2                          | 284                    | 152,227                              | 85.9                          | 1,732                  | 177,173                                        |
| 1922... | 7,291              | 2,783                                   | 11,607                                          | 2,610                                                | 24,291                                    | 15.3                          | 272                    | 134,049                              | 84.7                          | 1,503                  | 158,340                                        |
| 1923... | 7,550              | 2,076                                   | 11,482                                          | 3,075                                                | 24,183                                    | 15.1                          | 268                    | 135,069                              | 84.8                          | 1,499                  | 159,252                                        |
| 1924... | 7,595              | 2,536                                   | 12,790                                          | 2,635                                                | 25,556                                    | 15.3                          | 279                    | 141,663                              | 84.7                          | 1,549                  | 167,219                                        |
| 1925... | 7,826              | 2,749                                   | 13,892                                          | 2,644                                                | 27,111                                    | 15.3                          | 262                    | 150,672                              | 84.7                          | 1,621                  | 177,783                                        |
| 1926... | 7,799              | 2,296                                   | 14,262                                          | 2,679                                                | 27,036                                    | 13.8                          | 286                    | 169,171                              | 86.2                          | 1,790                  | 196,207                                        |
| 1927... | 8,343              | 2,671                                   | 15,154                                          | 2,809                                                | 28,977                                    | 13.1                          | 301                    | 191,285                              | 86.9                          | 1,985                  | 220,262                                        |
| 1928... | 9,140              | 2,991                                   | 16,072                                          | 3,856                                                | 32,059                                    | 11.6                          | 326                    | 243,123                              | 88.4                          | 2,472                  | 275,182                                        |
| 1929... | 10,392             | 3,529                                   | 17,271                                          | 4,001                                                | 35,193                                    | 10.9                          | 351                    | 286,773                              | 89.1                          | 2,859                  | 321,966                                        |
| 1930... | 11,052             | 4,647                                   | 18,498                                          | 6,584                                                | 40,781                                    | 11.8                          | 400                    | 304,860                              | 88.2                          | 2,986                  | 345,641                                        |
| 1931... | 11,773             | 5,288                                   | 21,528                                          | 5,475                                                | 44,064                                    | 12.0                          | 425                    | 323,024                              | 88.0                          | 3,113                  | 367,088                                        |
| 1932... | 10,327             | 5,194                                   | 20,766                                          | 5,310                                                | 41,797                                    | 12.4                          | 402                    | 294,858                              | 87.6                          | 2,842                  | 336,655                                        |
| 1933... | 9,603              | 5,319                                   | 21,575                                          | 6,096                                                | 42,593                                    | 12.8                          | 411                    | 290,475                              | 87.2                          | 2,799                  | 333,068                                        |

# 2.—Convictions for Criminal and Minor Offences, by Class of Offence, Compared as to Numbers and Ratios, years ended Sept. 30, 1929-33 (Including Juveniles).

## A.—NUMBERS.

| Class of Offence.                               | 1929.          | 1930.          | 1931.          | 1932.          | 1933.          |
|-------------------------------------------------|----------------|----------------|----------------|----------------|----------------|
|                                                 | No.            | No.            | No.            | No.            | No.            |
| <b>CRIMINAL OFFENCES—</b>                       |                |                |                |                |                |
| Offences against the person.....                | 10,392         | 11,052         | 11,773         | 10,327         | 9,603          |
| Offences against property with violence.....    | 3,529          | 4,647          | 5,288          | 5,194          | 5,319          |
| Offences against property without violence..... | 17,271         | 18,498         | 21,528         | 20,766         | 21,575         |
| Other felonies and misdemeanours.....           | 4,001          | 6,584          | 5,475          | 5,510          | 6,096          |
| Totals, Criminal Offences.....                  | 35,193         | 40,781         | 44,064         | 41,797         | 42,593         |
| <b>MINOR OFFENCES—</b>                          |                |                |                |                |                |
| Breach of municipal Acts and by-laws.....       | 181,199        | 200,920        | 226,822        | 204,981        | 201,990        |
| Breach of liquor laws.....                      | 19,339         | 18,139         | 16,193         | 12,231         | 10,491         |
| Drunkenness.....                                | 38,802         | 35,797         | 29,151         | 22,671         | 18,912         |
| Vagrancy.....                                   | 11,782         | 11,161         | 15,565         | 12,409         | 11,182         |
| Loose, idle and disorderly.....                 | 5,044          | 7,641          | 4,128          | 3,862          | 2,497          |
| Keeping bawdy houses and inmates thereof.....   | 5,350          | 4,650          | 4,407          | 6,036          | 5,692          |
| Miscellaneous minor offences.....               | 25,257         | 26,552         | 26,758         | 32,668         | 39,711         |
| Totals, Minor Offences.....                     | 286,773        | 304,860        | 323,024        | 294,858        | 290,475        |
| <b>Grand Totals.....</b>                        | <b>321,966</b> | <b>345,641</b> | <b>367,088</b> | <b>336,655</b> | <b>333,068</b> |



**2.—Convictions for Criminal and Minor Offences, by Class of Offence, Compared as to Numbers and Ratios, years ended Sept. 30, 1929-33 (Including Juveniles)—concluded.**

**B.—RATIOS PER CENT OF TOTAL AND PER 100,000 OF POPULATION.**

| Class of Offence.                                                        | 1929.        |                  | 1930.        |                  | 1931.        |                  | 1932.        |                  | 1933.        |                  |
|--------------------------------------------------------------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|
|                                                                          | Per cent.    | Per 100,000 Pop. | Per cent.    | Per 100,000 Pop. | Per cent.    | Per 100,000 Pop. | Per cent.    | Per 100,000 Pop. | Per cent.    | Per 100,000 Pop. |
| <b>CRIMINAL OFFENCES—</b>                                                |              |                  |              |                  |              |                  |              |                  |              |                  |
| Offences against the person.....                                         | 3.2          | 104              | 3.2          | 108              | 3.2          | 113              | 3.1          | 101              | 2.9          | 93               |
| Offences against property with violence.....                             | 1.1          | 35               | 1.3          | 46               | 1.4          | 51               | 1.5          | 48               | 1.6          | 51               |
| Offences against property without violence.....                          | 5.3          | 172              | 5.4          | 181              | 5.9          | 208              | 6.2          | 201              | 6.5          | 209              |
| Other felonies and misdemeanours.....                                    | 1.3          | 40               | 1.9          | 64               | 1.5          | 53               | 1.6          | 52               | 1.8          | 58               |
| <b>Totals, Criminal Offences..</b>                                       | <b>10.9</b>  | <b>351</b>       | <b>11.8</b>  | <b>399</b>       | <b>12.0</b>  | <b>425</b>       | <b>12.4</b>  | <b>402</b>       | <b>12.8</b>  | <b>411</b>       |
| <b>MINOR OFFENCES—</b>                                                   |              |                  |              |                  |              |                  |              |                  |              |                  |
| Breach of municipal Acts and by-laws.....                                | 56.3         | 1,807            | 58.1         | 1,967            | 61.8         | 2,186            | 60.9         | 1,979            | 60.6         | 1,945            |
| Breach of liquor laws.....                                               | 6.0          | 193              | 5.3          | 178              | 4.4          | 156              | 3.6          | 117              | 3.1          | 100              |
| Drunkenness.....                                                         | 12.0         | 387              | 10.4         | 351              | 7.9          | 281              | 6.7          | 217              | 5.7          | 183              |
| Vagrancy.....                                                            | 3.6          | 117              | 3.2          | 109              | 4.2          | 150              | 3.7          | 120              | 3.4          | 109              |
| Loose, idle and disorderly keeping bawdy houses and inmates thereof..... | 1.6          | 50               | 2.2          | 75               | 1.1          | 40               | 1.1          | 36               | 0.8          | 26               |
| Miscellaneous minor offences.....                                        | 1.7          | 53               | 1.3          | 46               | 1.2          | 42               | 1.8          | 58               | 1.7          | 55               |
| <b>Totals, Minor Offences.....</b>                                       | <b>89.1</b>  | <b>2,859</b>     | <b>88.2</b>  | <b>2,986</b>     | <b>88.0</b>  | <b>3,113</b>     | <b>87.6</b>  | <b>2,842</b>     | <b>87.2</b>  | <b>2,799</b>     |
| <b>Grand Totals.....</b>                                                 | <b>100.0</b> | <b>3,210</b>     | <b>100.0</b> | <b>3,386</b>     | <b>100.0</b> | <b>3,538</b>     | <b>100.0</b> | <b>3,244</b>     | <b>100.0</b> | <b>3,210</b>     |

The recent trend of total convictions, including those of juveniles, and of sentences imposed, is shown by provinces for the years 1927 to 1933 in Table 3. Death sentences, which numbered 28 in 1919 and 26 in 1920, dropped to 12 in 1927, rose again to 26 in 1929, then dropped to 17 in 1930 and rose again to 25, 23 and 24 in the latest three years reported.

**3.—Convictions and Sentences for All Offences, by Provinces, years ended Sept. 30, 1927-33.**

| Province.                    | 1927.   | 1928.   | 1929.   | 1930.   | 1931.   | 1932.   | 1933.   |
|------------------------------|---------|---------|---------|---------|---------|---------|---------|
| No.                          | No.     | No.     | No.     | No.     | No.     | No.     | No.     |
| <b>Canada—</b>               |         |         |         |         |         |         |         |
| Convictions.....             | 220,262 | 275,182 | 321,966 | 345,641 | 367,088 | 336,655 | 333,068 |
| Sentences—                   |         |         |         |         |         |         |         |
| Penitentiary.....            | 1,739   | 1,991   | 2,164   | 3,013   | 3,129   | 2,892   | 2,485   |
| Gaol or fine.....            | 179,863 | 223,794 | 263,750 | 266,777 | 274,483 | 242,123 | 248,177 |
| Reformatory.....             | 865     | 858     | 979     | 943     | 1,226   | 1,156   | 830     |
| Death.....                   | 12      | 19      | 26      | 17      | 25      | 23      | 24      |
| Other sentences.....         | 37,783  | 43,520  | 55,047  | 74,891  | 88,225  | 90,456  | 81,552  |
| <b>Prince Edward Island—</b> |         |         |         |         |         |         |         |
| Convictions.....             | 427     | 716     | 845     | 975     | 910     | 909     | 737     |
| Sentences—                   |         |         |         |         |         |         |         |
| Penitentiary.....            | 4       | 10      | 6       | 2       | 6       | 18      | 16      |
| Gaol or fine.....            | 405     | 669     | 814     | 956     | 871     | 853     | 688     |
| Reformatory.....             | 3       | —       | 3       | 6       | 4       | 6       | 4       |
| Death.....                   | —       | —       | —       | —       | —       | —       | —       |
| Other sentences.....         | 15      | 37      | 22      | 11      | 29      | 32      | 29      |
| <b>Nova Scotia—</b>          |         |         |         |         |         |         |         |
| Convictions.....             | 5,308   | 5,710   | 7,395   | 7,499   | 6,725   | 4,907   | 5,432   |
| Sentences—                   |         |         |         |         |         |         |         |
| Penitentiary.....            | 78      | 158     | 144     | 118     | 132     | 152     | 127     |
| Gaol or fine.....            | 4,553   | 4,752   | 6,479   | 6,720   | 5,971   | 4,129   | 4,474   |
| Reformatory.....             | 70      | 59      | 67      | 65      | 45      | 46      | 39      |
| Death.....                   | —       | —       | —       | 1       | 1       | 1       | 3       |
| Other sentences.....         | 607     | 741     | 705     | 595     | 576     | 579     | 789     |

### 3.—Convictions and Sentences for All Offences, by Provinces, years ended Sept. 30, 1927-33—concluded.

| Province.                | 1927.   | 1928.   | 1929.   | 1930.   | 1931.   | 1932.   | 1933.   |
|--------------------------|---------|---------|---------|---------|---------|---------|---------|
|                          | No.     | No.     | No.     | No.     | No.     | No.     | No.     |
| <b>New Brunswick—</b>    |         |         |         |         |         |         |         |
| Convictions.....         | 3,080   | 3,617   | 4,589   | 4,727   | 5,380   | 4,628   | 4,318   |
| Sentences—               |         |         |         |         |         |         |         |
| Penitentiary.....        | 25      | 50      | 57      | 49      | 108     | 92      | 110     |
| Gaol or fine.....        | 2,628   | 3,095   | 4,091   | 4,130   | 4,524   | 4,016   | 3,519   |
| Reformatory.....         | 47      | 42      | 39      | 53      | 40      | 65      | 63      |
| Death.....               | —       | —       | —       | 1       | —       | —       | 1       |
| Other sentences.....     | 380     | 430     | 402     | 494     | 708     | 455     | 625     |
| <b>Quebec—</b>           |         |         |         |         |         |         |         |
| Convictions.....         | 34,093  | 35,060  | 57,302  | 67,219  | 106,941 | 121,191 | 127,416 |
| Sentences—               |         |         |         |         |         |         |         |
| Penitentiary.....        | 394     | 542     | 507     | 754     | 765     | 803     | 659     |
| Gaol or fine.....        | 28,193  | 28,853  | 47,211  | 51,405  | 86,729  | 97,702  | 108,031 |
| Reformatory.....         | 215     | 154     | 162     | 67      | 109     | 268     | 280     |
| Death.....               | 4       | 5       | 9       | 5       | 6       | 6       | 5       |
| Other sentences.....     | 5,287   | 5,506   | 9,413   | 14,988  | 19,332  | 22,412  | 18,441  |
| <b>Ontario—</b>          |         |         |         |         |         |         |         |
| Convictions.....         | 112,364 | 158,338 | 165,829 | 178,795 | 168,069 | 146,393 | 140,256 |
| Sentences—               |         |         |         |         |         |         |         |
| Penitentiary.....        | 659     | 685     | 596     | 926     | 834     | 775     | 826     |
| Gaol or fine.....        | 89,602  | 127,140 | 133,534 | 135,315 | 118,674 | 95,631  | 94,968  |
| Reformatory.....         | 303     | 341     | 451     | 430     | 736     | 531     | 261     |
| Death.....               | 3       | 4       | 6       | 5       | 6       | 6       | 10      |
| Other sentences.....     | 21,797  | 30,168  | 31,242  | 42,119  | 47,819  | 49,450  | 44,191  |
| <b>Manitoba—</b>         |         |         |         |         |         |         |         |
| Convictions.....         | 19,626  | 23,210  | 30,100  | 30,540  | 27,002  | 22,343  | 19,100  |
| Sentences—               |         |         |         |         |         |         |         |
| Penitentiary.....        | 133     | 199     | 291     | 303     | 523     | 482     | 251     |
| Gaol or fine.....        | 13,645  | 16,016  | 21,684  | 19,551  | 14,737  | 10,410  | 7,149   |
| Reformatory.....         | 144     | 146     | 151     | 176     | 168     | 163     | 123     |
| Death.....               | 1       | 1       | 1       | —       | 2       | 4       | 3       |
| Other sentences.....     | 5,703   | 6,848   | 7,973   | 10,500  | 11,567  | 11,284  | 11,574  |
| <b>Saskatchewan—</b>     |         |         |         |         |         |         |         |
| Convictions.....         | 10,018  | 11,201  | 13,677  | 14,386  | 13,760  | 9,687   | 8,564   |
| Sentences—               |         |         |         |         |         |         |         |
| Penitentiary.....        | 46      | 45      | 99      | 115     | 115     | 90      | 54      |
| Gaol or fine.....        | 8,901   | 9,965   | 12,317  | 12,631  | 11,822  | 8,101   | 7,345   |
| Reformatory.....         | 20      | 27      | 24      | 48      | 35      | 21      | 22      |
| Death.....               | 1       | 1       | 7       | 3       | 1       | 3       | 2       |
| Other sentences.....     | 1,050   | 1,163   | 1,230   | 1,589   | 1,787   | 1,472   | 1,141   |
| <b>Alberta—</b>          |         |         |         |         |         |         |         |
| Convictions.....         | 10,635  | 13,054  | 16,659  | 16,080  | 16,589  | 10,853  | 12,538  |
| Sentences—               |         |         |         |         |         |         |         |
| Penitentiary.....        | 162     | 97      | 242     | 424     | 291     | 187     | 152     |
| Gaol or fine.....        | 8,876   | 10,720  | 13,944  | 12,936  | 12,293  | 8,017   | 9,672   |
| Reformatory.....         | 14      | 26      | 25      | 26      | 15      | 8       | 10      |
| Death.....               | 2       | 2       | 1       | 1       | —       | —       | —       |
| Other sentences.....     | 1,581   | 2,209   | 2,447   | 2,693   | 3,984   | 2,641   | 2,704   |
| <b>British Columbia—</b> |         |         |         |         |         |         |         |
| Convictions.....         | 24,616  | 24,142  | 25,430  | 25,286  | 21,548  | 15,647  | 14,602  |
| Sentences—               |         |         |         |         |         |         |         |
| Penitentiary.....        | 237     | 205     | 222     | 322     | 349     | 291     | 290     |
| Gaol or fine.....        | 22,974  | 22,460  | 23,544  | 22,998  | 18,727  | 13,185  | 12,244  |
| Reformatory.....         | 49      | 63      | 57      | 72      | 74      | 48      | 28      |
| Death.....               | 1       | 6       | 2       | 1       | 3       | 2       | —       |
| Other sentences.....     | 1,355   | 1,408   | 1,605   | 1,893   | 2,395   | 2,121   | 2,040   |
| <b>The Territories—</b>  |         |         |         |         |         |         |         |
| Convictions.....         | 95      | 134     | 140     | 134     | 164     | 97      | 105     |
| Sentences—               |         |         |         |         |         |         |         |
| Penitentiary.....        | 1       | —       | —       | —       | 1       | 2       | —       |
| Gaol or fine.....        | 86      | 124     | 132     | 125     | 135     | 84      | 87      |
| Reformatory.....         | —       | —       | —       | —       | —       | —       | —       |
| Death.....               | —       | —       | —       | —       | —       | 1       | —       |
| Other Sentences.....     | 8       | 10      | 8       | 9       | 28      | 10      | 18      |

## Section 2.—Indictable Offences of Adults.

The progress of a community, from the moral point of view, is often judged by the number of convictions for indictable offences, as these are less affected than non-indictable offences by extraneous circumstances and the varying methods of law enforcement in different areas and in different years. However, in the

study of such statistics it is important to have comparable figures over a period of years, and these are set out by provinces for each year since 1911 in Table 4. Again, in Table 5 are shown the numbers of charges and convictions and the percentages of acquittals for the three years ended Sept. 30, 1931-33.

It may be stated that during the thirty-three-year period from 1900 to 1933 crimes increased from 4,853 to 32,942, or 579 p.c. The increase in the population during the same period was but 101.5 p.c., revealing that the increase in the crime rate was between five and six times that of the population.

#### 4.—Convictions of Persons 16 years of Age and Upwards for Indictable Offences, by Provinces, years ended Sept. 30, 1911-33.

NOTE.—For figures for 1900-10, see p. 1016 of the 1933 Year Book.

| Year.     | P.E.I. | N.S.  | N.B. | Que.  | Ont.   | Man.  | Sask. | Alta. | B.C.  | Yukon. | N.W.T. | Total. |
|-----------|--------|-------|------|-------|--------|-------|-------|-------|-------|--------|--------|--------|
| 1911..... | 19     | 356   | 123  | 1,865 | 5,067  | 888   | 957   | 870   | 1,015 | 24     | 4      | 11,188 |
| 1912..... | 11     | 657   | 107  | 2,052 | 5,456  | 1,121 | 1,204 | 1,513 | 1,532 | 26     | 7      | 13,686 |
| 1913..... | 8      | 598   | 140  | 2,336 | 6,272  | 1,331 | 1,594 | 1,908 | 1,794 | 26     | —      | 16,007 |
| 1914..... | 18     | 669   | 179  | 2,918 | 7,479  | 1,284 | 1,889 | 2,235 | 2,112 | 27     | —      | 18,810 |
| 1915..... | 12     | 840   | 206  | 2,427 | 7,112  | 1,362 | 1,993 | 2,082 | 1,517 | 24     | —      | 17,575 |
| 1916..... | 11     | 619   | 241  | 3,166 | 6,023  | 914   | 1,711 | 1,895 | 1,503 | 20     | —      | 16,003 |
| 1917..... | 21     | 427   | 228  | 2,667 | 4,824  | 755   | 1,057 | 894   | 1,058 | 22     | —      | 11,953 |
| 1918..... | 12     | 563   | 230  | 2,916 | 6,111  | 811   | 1,067 | 886   | 659   | 11     | —      | 13,266 |
| 1919..... | 14     | 663   | 241  | 2,960 | 6,605  | 919   | 1,134 | 1,028 | 951   | 5      | —      | 14,520 |
| 1920..... | 4      | 580   | 375  | 2,517 | 6,707  | 987   | 1,467 | 1,233 | 1,212 | 6      | —      | 15,088 |
| 1921..... | 15     | 712   | 313  | 2,654 | 7,548  | 1,159 | 1,220 | 1,263 | 1,282 | 3      | —      | 16,169 |
| 1922..... | 27     | 701   | 322  | 2,885 | 7,021  | 1,188 | 1,391 | 1,171 | 1,004 | 10     | —      | 15,720 |
| 1923..... | 13     | 400   | 148  | 2,655 | 6,886  | 1,094 | 1,446 | 1,424 | 1,116 | 6      | —      | 15,188 |
| 1924..... | 25     | 595   | 224  | 2,729 | 7,180  | 1,160 | 1,647 | 1,423 | 1,265 | 10     | —      | 16,258 |
| 1925..... | 3      | 624   | 244  | 3,084 | 7,751  | 1,215 | 1,654 | 1,254 | 1,385 | 2      | 3      | 17,219 |
| 1926..... | 14     | 752   | 222  | 3,053 | 7,248  | 1,383 | 2,052 | 1,463 | 1,252 | 3      | 6      | 17,448 |
| 1927..... | 14     | 680   | 287  | 3,621 | 7,962  | 1,457 | 1,492 | 1,483 | 1,833 | 3      | 4      | 18,836 |
| 1928..... | 43     | 891   | 365  | 4,299 | 9,052  | 1,672 | 1,761 | 1,701 | 1,931 | 5      | —      | 21,720 |
| 1929..... | 55     | 869   | 358  | 4,780 | 9,489  | 1,988 | 1,918 | 2,201 | 2,425 | 8      | 6      | 24,097 |
| 1930..... | 59     | 875   | 354  | 5,540 | 11,774 | 2,272 | 2,355 | 2,525 | 2,694 | 6      | 3      | 28,457 |
| 1931..... | 57     | 1,184 | 461  | 6,737 | 12,000 | 3,102 | 2,716 | 2,887 | 3,385 | 8      | 5      | 31,542 |
| 1932..... | 78     | 1,072 | 514  | 7,086 | 12,428 | 2,982 | 1,893 | 2,241 | 3,072 | 6      | 11     | 31,383 |
| 1933..... | 70     | 1,160 | 479  | 7,713 | 13,152 | 2,667 | 2,049 | 2,544 | 3,094 | 7      | 7      | 32,942 |

#### 5.—Charges, Convictions and Percentages of Acquittals for Indictable Offences, by Provinces, years ended Sept. 30, 1931-33.

NOTE.—The figures of this table do not include charges or convictions of juvenile delinquents.

| Province.                 | 1931.         |               |             | 1932.         |               |             | 1933.         |               |             |
|---------------------------|---------------|---------------|-------------|---------------|---------------|-------------|---------------|---------------|-------------|
|                           | Charges.      | Convictions.  | Acquittals. | Charges.      | Convictions.  | Acquittals. | Charges.      | Convictions.  | Acquittals. |
|                           | No.           | No.           | p.c.        | No.           | No.           | p.c.        | No.           | No.           | p.c.        |
| Prince Edward Island..... | 75            | 57            | 24.0        | 102           | 78            | 23.5        | 86            | 70            | 15.7        |
| Nova Scotia.....          | 1,728         | 1,184         | 31.4        | 1,525         | 1,072         | 29.7        | 1,537         | 1,160         | 24.5        |
| New Brunswick.....        | 612           | 461           | 24.8        | 597           | 514           | 13.9        | 564           | 479           | 15.1        |
| Quebec.....               | 7,255         | 5,737         | 20.9        | 8,616         | 7,086         | 17.8        | 9,048         | 7,713         | 14.8        |
| Ontario.....              | 14,617        | 12,000        | 17.9        | 15,084        | 12,428        | 17.6        | 15,906        | 13,152        | 17.3        |
| Manitoba.....             | 3,543         | 3,102         | 12.5        | 3,292         | 2,982         | 9.4         | 3,063         | 2,667         | 12.9        |
| Saskatchewan.....         | 2,996         | 2,716         | 6.3         | 2,140         | 1,893         | 11.5        | 2,256         | 2,049         | 9.2         |
| Alberta.....              | 3,454         | 2,887         | 14.4        | 2,614         | 2,241         | 14.3        | 2,932         | 2,544         | 13.2        |
| British Columbia.....     | 3,889         | 3,385         | 12.1        | 3,627         | 3,072         | 15.3        | 3,521         | 3,094         | 12.1        |
| The Territories.....      | 20            | 13            | 26.3        | 24            | 17            | 29.2        | 14            | 14            | 0.0         |
| <b>Totals.....</b>        | <b>38,189</b> | <b>31,542</b> | <b>17.9</b> | <b>37,621</b> | <b>31,383</b> | <b>16.6</b> | <b>38,927</b> | <b>32,942</b> | <b>15.4</b> |

**Classes of Indictable Offences.**—Indictable offences are divided under the Canadian system into six main classes, as follows: offences against the person, offences against property with violence, offences against property without violence, malicious offences against property, forgery and other offences against the currency, and other indictable offences. Details by offences are given in Table 6 and the details of the disposition of the charges in Table 7, which shows, with other information, that convictions of females numbered 3,477 in 1933 as against 3,202 in 1932 and 2,607 in 1931; as recently as 1924 the figure was only 1,826. Details as to occupation, conjugal condition, educational status, age, use of liquors, birth-place, religion and residence of those convicted of indictable offences are given in Table 8.

### 6.—Indictable Offences, by Classes, years ended Sept. 30, 1931-33.

NOTE.—The figures of this table do not include charges or convictions of juvenile delinquents.

| Class and Offence.                                                              | 1931.         |               | 1932.         |               | 1933.         |               |
|---------------------------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                                                                                 | Charges.      | Convictions.  | Charges.      | Convictions.  | Charges.      | Convictions.  |
|                                                                                 | No.           | No.           | No.           | No.           | No.           | No.           |
| <b>CLASS I.—OFFENCES AGAINST THE PERSON.</b>                                    |               |               |               |               |               |               |
| Murder.....                                                                     | 49            | 25            | 47            | 23            | 43            | 24            |
| Murder, attempt to commit.....                                                  | 49            | 32            | 22            | 14            | 37            | 21            |
| Manslaughter.....                                                               | 144           | 52            | 121           | 45            | 110           | 39            |
| Abortion and concealing birth of infants.....                                   | 47            | 32            | 56            | 36            | 63            | 48            |
| Rape and other crimes against decency.....                                      | 764           | 487           | 734           | 475           | 628           | 454           |
| Procuration.....                                                                | 65            | 34            | 31            | 22            | 25            | 17            |
| Bigamy.....                                                                     | 62            | 47            | 55            | 47            | 69            | 59            |
| Shooting, stabbing and wounding.....                                            | 252           | 152           | 223           | 147           | 192           | 117           |
| Assault on females, incl. assault on wife.....                                  | 221           | 189           | 301           | 255           | 341           | 296           |
| Aggravated assault.....                                                         | 1,412         | 909           | 1,178         | 831           | 1,326         | 934           |
| Assault on police officer.....                                                  | 710           | 653           | 588           | 525           | 564           | 507           |
| Assault and battery.....                                                        | 1,860         | 1,427         | 1,823         | 1,313         | 1,721         | 1,233         |
| Refusal to support family.....                                                  | 430           | 269           | 378           | 217           | 296           | 148           |
| Wife desertion.....                                                             | 20            | 12            | 12            | 7             | 15            | 10            |
| Causing injury by fast driving.....                                             | 118           | 81            | 60            | 32            | 63            | 53            |
| Various other offences against the person.....                                  | 121           | 82            | 166           | 102           | 122           | 59            |
| <b>Totals, Class I.....</b>                                                     | <b>6,324</b>  | <b>4,483</b>  | <b>5,795</b>  | <b>4,091</b>  | <b>5,615</b>  | <b>4,019</b>  |
| <b>CLASS II.—OFFENCES AGAINST PROPERTY WITH VIOLENCE.</b>                       |               |               |               |               |               |               |
| Burglary, house, warehouse, and shop-breaking.....                              | 4,030         | 3,672         | 4,207         | 3,842         | 4,441         | 3,944         |
| Robbery and demanding with menaces.....                                         | 798           | 655           | 546           | 425           | 508           | 403           |
| <b>Totals, Class II.....</b>                                                    | <b>4,828</b>  | <b>4,327</b>  | <b>4,753</b>  | <b>4,267</b>  | <b>4,949</b>  | <b>4,347</b>  |
| <b>CLASS III.—OFFENCES AGAINST PROPERTY WITHOUT VIOLENCE.</b>                   |               |               |               |               |               |               |
| Bringing stolen goods into Canada.....                                          | 2             | 1             | 4             | 4             | 5             | 4             |
| Embezzlement.....                                                               | 54            | 48            | 100           | 87            | 157           | 105           |
| False pretences.....                                                            | 2,822         | 2,406         | 2,594         | 2,222         | 3,011         | 2,494         |
| Feloniously receiving stolen goods.....                                         | 701           | 539           | 1,009         | 759           | 1,323         | 988           |
| Fraud and conspiracy to defraud.....                                            | 891           | 647           | 774           | 564           | 814           | 656           |
| Horse, cattle and sheep stealing.....                                           | 87            | 64            | 89            | 63            | 120           | 97            |
| Theft.....                                                                      | 13,668        | 11,610        | 12,819        | 11,144        | 12,810        | 11,257        |
| Theft of mail.....                                                              | 29            | 21            | 28            | 24            | 31            | 26            |
| Theft of automobile.....                                                        | 943           | 807           | 844           | 718           | 807           | 722           |
| <b>Totals, Class III.....</b>                                                   | <b>19,197</b> | <b>16,143</b> | <b>18,261</b> | <b>15,585</b> | <b>19,078</b> | <b>16,349</b> |
| <b>CLASS IV.—MALICIOUS OFFENCES AGAINST PROPERTY.</b>                           |               |               |               |               |               |               |
| Arson.....                                                                      | 163           | 86            | 177           | 109           | 135           | 71            |
| Malicious injury to horses and cattle, and other wilful damage to property..... | 635           | 482           | 534           | 409           | 588           | 448           |
| <b>Totals, Class IV.....</b>                                                    | <b>798</b>    | <b>568</b>    | <b>711</b>    | <b>518</b>    | <b>723</b>    | <b>519</b>    |



## 6.—Indictable Offences, by Classes, years ended Sept. 30, 1931-33—concluded.

| Class and Offence.                                                     | 1931.         |               | 1932.         |               | 1933.         |               |
|------------------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                                                                        | Charges.      | Convictions.  | Charges.      | Convictions.  | Charges.      | Convictions.  |
|                                                                        | No.           | No.           | No.           | No.           | No.           | No.           |
| <b>CLASS V.—FORGERY AND OTHER OFFENCES AGAINST THE CURRENCY.</b>       |               |               |               |               |               |               |
| Offences against the currency.....                                     | 16            | 14            | 55            | 52            | 35            | 30            |
| Forgery and uttering forged documents..                                | 963           | 885           | 912           | 850           | 874           | 795           |
| <b>Totals, Class V.....</b>                                            | <b>979</b>    | <b>899</b>    | <b>967</b>    | <b>902</b>    | <b>909</b>    | <b>825</b>    |
| <b>CLASS VI.—OTHER OFFENCES NOT INCLUDED IN THE FOREGOING CLASSES.</b> |               |               |               |               |               |               |
| Breach of the Trade Marks Act.....                                     | 51            | 45            | 38            | 37            | 53            | 53            |
| Attempt to commit suicide.....                                         | 182           | 151           | 196           | 157           | 214           | 178           |
| Carrying unlawful weapons.....                                         | 180           | 159           | 178           | 157           | 230           | 192           |
| Criminal negligence.....                                               | 190           | 97            | 205           | 83            | 159           | 59            |
| Conspiracy.....                                                        | 373           | 295           | 243           | 170           | 218           | 151           |
| Indecent exposure and other offences against public morals.....        | 117           | 100           | 147           | 127           | 186           | 168           |
| Intimidation.....                                                      | 43            | 29            | 62            | 40            | 101           | 62            |
| Keeping bawdy houses and inmates thereof.....                          | 1,002         | 702           | 1,759         | 1,550         | 1,780         | 1,712         |
| Offences against Gambling and Lottery Acts.....                        | 2,200         | 2,064         | 2,308         | 2,120         | 2,740         | 2,623         |
| Offences against Opium and Narcotic Drug Act.....                      | 269           | 229           | 233           | 188           | 193           | 161           |
| Offences against revenue laws.....                                     | 228           | 198           | 375           | 318           | 430           | 385           |
| Illicit stills.....                                                    | 445           | 428           | 471           | 435           | 483           | 459           |
| Perjury and subornation of perjury.....                                | 167           | 101           | 175           | 102           | 184           | 102           |
| Prison breach and escape from prison....                               | 206           | 198           | 205           | 201           | 172           | 166           |
| Riot and affray.....                                                   | 206           | 168           | 239           | 147           | 290           | 230           |
| Sodomy and bestiality.....                                             | 107           | 81            | 124           | 102           | 166           | 146           |
| Various other misdemeanours.....                                       | 97            | 77            | 176           | 86            | 54            | 36            |
| <b>Totals, Class VI.....</b>                                           | <b>6,063</b>  | <b>5,122</b>  | <b>7,134</b>  | <b>6,020</b>  | <b>7,653</b>  | <b>6,883</b>  |
| <b>Grand Totals.....</b>                                               | <b>38,189</b> | <b>31,542</b> | <b>37,621</b> | <b>31,383</b> | <b>38,927</b> | <b>32,942</b> |

## 7.—Charges, Acquittals, Convictions and Sentences in respect of Indictable Offences, years ended Sept. 30, 1927-33.

NOTE.—Juvenile delinquencies not included in these statistics.

| Item.                                    | 1927.  | 1928.  | 1929.  | 1930.  | 1931.  | 1932.  | 1933.  |
|------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
|                                          | No.    | No.    | No.    | No.    | No.    | No.    | No.    |
| Charges.....                             | 23,563 | 26,693 | 29,572 | 34,751 | 38,189 | 37,621 | 38,927 |
| Acquittals.....                          | 4,685  | 4,935  | 5,432  | 6,246  | 6,589  | 6,206  | 5,942  |
| Persons detained for lunacy.....         | 42     | 38     | 43     | 48     | 58     | 32     | 43     |
| Convictions.....                         | 18,836 | 21,720 | 24,097 | 28,457 | 31,542 | 31,383 | 32,942 |
| Males.....                               | 16,823 | 19,520 | 21,460 | 25,797 | 28,935 | 28,181 | 29,465 |
| Females.....                             | 2,013  | 2,200  | 2,637  | 2,660  | 2,607  | 3,202  | 3,477  |
| First conviction.....                    | 14,761 | 17,314 | 18,638 | 21,319 | 23,474 | 23,841 | 24,576 |
| Second conviction.....                   | 1,632  | 1,955  | 2,396  | 3,051  | 3,159  | 2,895  | 3,584  |
| Reiterated conviction.....               | 2,443  | 2,451  | 3,063  | 4,087  | 4,909  | 4,647  | 4,782  |
| Sentences—                               |        |        |        |        |        |        |        |
| Option of a fine.....                    | 5,606  | 6,719  | 7,050  | 7,473  | 8,036  | 8,143  | 8,973  |
| Under one year in gaol.....              | 5,016  | 5,737  | 5,966  | 7,474  | 8,794  | 9,307  | 10,128 |
| One year and over in gaol.....           | 1,456  | 1,668  | 1,715  | 2,502  | 2,728  | 2,760  | 2,656  |
| Indeterminate.....                       | —      | —      | 457    | 115    | 7      | 7      | 4      |
| Two years and under five in penitentiary | 1,370  | 1,622  | 1,781  | 2,501  | 2,551  | 2,347  | 2,018  |
| Five years and over in penitentiary..... | 364    | 362    | 374    | 508    | 568    | 536    | 451    |
| For life in penitentiary.....            | 5      | 7      | 9      | 4      | 10     | 9      | 15     |
| Death.....                               | 12     | 19     | 26     | 17     | 25     | 23     | 24     |
| Committed to reformatories.....          | 195    | 227    | 319    | 224    | 597    | 376    | 168    |
| Other sentences.....                     | 4,812  | 5,359  | 6,400  | 7,639  | 8,226  | 7,875  | 8,505  |

\*Including cases where proceedings were stayed, jury disagreed, etc.

### 8.—Occupations, etc., of Persons Convicted of Indictable Offences, years ended Sept. 30, 1927-33.

NOTE.—Juvenile delinquents not included.

| Item.                               | 1927.         | 1928.         | 1929.         | 1930.         | 1931.         | 1932.         | 1933.         |
|-------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                                     | No.           | No.           | No.           | No.           | No.           | No.           | No.           |
| <b>Occupation—</b>                  |               |               |               |               |               |               |               |
| Agriculture.....                    | 1,014         | 1,320         | 1,509         | 1,599         | 1,780         | 2,026         | 2,087         |
| Lumbering.....                      | 112           | 60            | 98            | 115           | 117           | 101           | 119           |
| Fishing.....                        | 61            | 96            | 66            | 77            | 98            | 128           | 98            |
| Mining.....                         | 169           | 179           | 205           | 289           | 188           | 266           | 313           |
| Manufacturing and construction..... | 1,786         | 1,903         | 2,298         | 3,050         | 3,274         | 3,379         | 3,294         |
| Transportation.....                 | 647           | 673           | 765           | 940           | 941           | 804           | 786           |
| Trade.....                          | 2,236         | 2,822         | 2,807         | 3,235         | 3,672         | 3,221         | 3,603         |
| Service.....                        | 1,916         | 2,302         | 3,030         | 3,434         | 3,467         | 4,034         | 4,311         |
| Professional.....                   | 95            | 137           | 222           | 342           | 272           | 204           | 191           |
| Labourers.....                      | 6,058         | 7,070         | 7,653         | 9,974         | 11,409        | 11,072        | 10,911        |
| Not given.....                      | 4,742         | 5,158         | 5,444         | 5,492         | 6,324         | 6,148         | 7,229         |
| <b>Totals.....</b>                  | <b>18,836</b> | <b>21,720</b> | <b>24,097</b> | <b>28,457</b> | <b>31,542</b> | <b>31,383</b> | <b>32,942</b> |
| <b>Conjugal Condition—</b>          |               |               |               |               |               |               |               |
| Married.....                        | 6,559         | 7,886         | 8,220         | 9,587         | 10,141        | 9,801         | 10,657        |
| Single.....                         | 9,321         | 10,054        | 11,997        | 15,332        | 15,003        | 17,464        | 17,424        |
| Widowed.....                        | 247           | 374           | 336           | 371           | 327           | 525           | 485           |
| Divorced.....                       | —             | —             | 2             | 7             | 5             | 12            | 11            |
| Not given.....                      | 2,709         | 3,406         | 3,542         | 3,160         | 6,066         | 3,581         | 4,365         |
| <b>Educational Status—</b>          |               |               |               |               |               |               |               |
| Unable to read or write.....        | 641           | 533           | 632           | 711           | 464           | 595           | 485           |
| Elementary.....                     | 15,278        | 17,301        | 19,290        | 23,819        | 26,490        | 26,247        | 27,904        |
| Superior.....                       | 215           | 268           | 479           | 482           | 420           | 454           | 407           |
| Not given.....                      | 2,702         | 3,618         | 3,696         | 3,445         | 4,168         | 4,087         | 4,146         |
| <b>Age—</b>                         |               |               |               |               |               |               |               |
| 16 years and under 21.....          | 3,760         | 4,231         | 5,909         | 6,453         | 7,266         | 6,718         | 7,050         |
| 21 years and under 40.....          | 9,011         | 10,640        | 12,799        | 14,343        | 15,810        | 16,419        | 19,445        |
| 40 years and over.....              | 3,110         | 3,760         | 4,471         | 4,901         | 4,871         | 5,008         | 5,657         |
| Not given.....                      | 2,955         | 3,089         | 918           | 2,760         | 3,595         | 3,238         | 790           |
| <b>Use of Liquors—</b>              |               |               |               |               |               |               |               |
| Moderate.....                       | 10,848        | 11,629        | 12,919        | 17,305        | 17,753        | 22,498        | 23,938        |
| Immoderate.....                     | 1,399         | 1,952         | 1,914         | 2,167         | 2,121         | 2,749         | 2,645         |
| Not given.....                      | 6,589         | 8,139         | 9,264         | 8,985         | 11,668        | 6,136         | 6,359         |
| <b>Birthplace—</b>                  |               |               |               |               |               |               |               |
| England and Wales.....              | 1,335         | 1,496         | 1,916         | 2,245         | 2,100         | 2,098         | 1,659         |
| Ireland.....                        | 235           | 300           | 322           | 433           | 394           | 412           | 456           |
| Scotland.....                       | 554           | 638           | 645           | 764           | 943           | 737           | 761           |
| Canada.....                         | 10,710        | 12,367        | 13,930        | 17,256        | 18,297        | 19,899        | 21,522        |
| Other British possessions.....      | 136           | 72            | 99            | 163           | 169           | 122           | 145           |
| United States.....                  | 844           | 987           | 1,129         | 1,094         | 990           | 934           | 896           |
| Other foreign countries.....        | 2,185         | 2,671         | 2,926         | 3,486         | 3,508         | 3,387         | 3,844         |
| Not given.....                      | 2,837         | 3,189         | 3,130         | 3,016         | 5,141         | 3,794         | 3,659         |
| <b>Religion—</b>                    |               |               |               |               |               |               |               |
| Baptist.....                        | 381           | 509           | 501           | 710           | 686           | 780           | 705           |
| Roman Catholic.....                 | 5,977         | 6,938         | 7,784         | 9,804         | 10,141        | 11,221        | 12,088        |
| Church of England.....              | 2,392         | 2,327         | 2,889         | 3,213         | 3,562         | 3,118         | 2,961         |
| Methodist <sup>1</sup> .....        | 889           | 573           | 630           | 578           | 571           | 442           | 449           |
| Presbyterian.....                   | 1,555         | 1,727         | 2,084         | 2,387         | 2,836         | 2,358         | 2,277         |
| United Church.....                  | 530           | 821           | 1,129         | 1,958         | 2,050         | 2,321         | 2,212         |
| Other Protestant.....               | 2,044         | 3,007         | 3,675         | 3,388         | 3,695         | 3,943         | 4,528         |
| Jewish.....                         | 433           | 592           | 470           | 497           | 618           | 687           | 606           |
| Other denominations.....            | 1,161         | 1,332         | 1,237         | 2,340         | 2,793         | 2,489         | 2,806         |
| Not given.....                      | 3,474         | 3,894         | 3,698         | 3,582         | 4,590         | 4,024         | 4,310         |
| <b>Residence—</b>                   |               |               |               |               |               |               |               |
| Cities and towns.....               | 15,393        | 17,563        | 18,717        | 21,986        | 24,210        | 24,547        | 22,395        |
| Rural districts.....                | 2,816         | 3,893         | 5,118         | 6,369         | 6,648         | 6,490         | 7,260         |
| Not given.....                      | 627           | 264           | 262           | 102           | 684           | 346           | 3,287         |

<sup>1</sup>Notwithstanding the fact that the United Church of Canada was completely organized in 1926, these persons still reported themselves as Methodists.

### Section 3.—Summary Convictions of Adults.

The following statistics relate to "non-indictable" offences committed by adults (persons 16 years of age and over) and disposed of by police magistrates or other justices of the peace, under authority of the Summary Convictions Act. Such convictions numbered 292,673 during the year ended Sept. 30, 1933, as com-

pared with 297,909 in 1932, 327,778 in 1931, 308,759 in 1930, and 193,240 in 1927. This marked increase in the past five or six years has been due almost entirely to breaches of traffic regulations, which have risen from 78,027 in 1926 to 186,848 in 1933, or from 46 p.c. to nearly 64 p.c. of the total of summary convictions. By sexes, the summary convictions appear as follows: in 1926, males 159,528, females 10,385; in 1930, males 292,557, females 16,202; in 1931, males 312,111, females 15,667; in 1932, males 281,318; females 16,591; and in 1933, males 275,229; females 17,444.

Summary convictions are given by provinces from 1911 to 1933 in Table 9, and details of these offences are given for the four latest years in Table 10.

### 9.—Summary Convictions, by Provinces, years ended Sept. 30, 1911-33.

NOTE.—For figures for 1900-1910, see p. 1020 of the 1933 Year Book.

| Year.     | P.E.I. | N.S.  | N.B.  | Que.    | Ont.    | Man.   | Sask.  | Alta.  | B.C.   | Yukon. | N.W.T. | Total.  |
|-----------|--------|-------|-------|---------|---------|--------|--------|--------|--------|--------|--------|---------|
| 1911..... | 375    | 5,306 | 2,766 | 17,729  | 34,871  | 12,366 | 7,317  | 9,350  | 10,380 | 145    | 28     | 100,633 |
| 1912..... | 437    | 5,920 | 3,022 | 24,335  | 42,104  | 13,985 | 9,184  | 15,254 | 16,472 | 163    | 84     | 130,960 |
| 1913..... | 443    | 6,353 | 3,136 | 29,714  | 51,396  | 16,513 | 11,711 | 17,513 | 17,882 | 157    | —      | 154,818 |
| 1914..... | 498    | 6,613 | 2,872 | 30,563  | 56,874  | 14,840 | 11,854 | 16,806 | 20,481 | 196    | —      | 161,597 |
| 1915..... | 346    | 5,774 | 2,833 | 24,152  | 49,942  | 11,266 | 9,650  | 12,331 | 15,993 | 143    | —      | 132,430 |
| 1916..... | 405    | 5,924 | 2,664 | 20,767  | 41,732  | 7,826  | 9,287  | 9,526  | 6,344  | 156    | —      | 104,631 |
| 1917..... | 323    | 4,700 | 2,564 | 22,560  | 42,655  | 7,065  | 6,007  | 5,720  | 6,768  | 84     | —      | 98,452  |
| 1918..... | 209    | 4,794 | 1,611 | 25,374  | 46,448  | 7,298  | 6,536  | 6,744  | 6,821  | 64     | —      | 105,899 |
| 1919..... | 236    | 5,533 | 2,447 | 30,881  | 44,587  | 8,128  | 6,180  | 5,961  | 7,638  | 32     | —      | 111,623 |
| 1920..... | 340    | 5,790 | 3,405 | 40,801  | 55,049  | 11,093 | 6,523  | 7,219  | 13,996 | 49     | —      | 144,265 |
| 1921..... | 373    | 4,639 | 2,680 | 45,042  | 63,874  | 9,563  | 6,137  | 8,571  | 14,460 | 37     | —      | 155,376 |
| 1922..... | 309    | 3,332 | 2,281 | 31,441  | 63,015  | 9,530  | 6,876  | 7,766  | 11,720 | 52     | —      | 136,322 |
| 1923..... | 321    | 3,033 | 2,179 | 27,563  | 64,639  | 11,377 | 8,346  | 8,359  | 11,639 | 37     | —      | 137,493 |
| 1924..... | 232    | 3,355 | 2,499 | 22,803  | 73,768  | 11,189 | 7,274  | 8,342  | 13,508 | 29     | —      | 142,999 |
| 1925..... | 235    | 2,790 | 2,417 | 25,364  | 79,470  | 10,724 | 8,020  | 7,840  | 14,875 | 25     | 61     | 151,825 |
| 1926..... | 345    | 3,568 | 2,418 | 24,428  | 90,061  | 13,913 | 8,614  | 8,142  | 18,337 | 45     | 42     | 169,913 |
| 1927..... | 392    | 4,362 | 2,565 | 28,732  | 101,345 | 16,420 | 8,243  | 8,801  | 22,292 | 54     | 34     | 193,240 |
| 1928..... | 662    | 4,499 | 3,031 | 29,302  | 146,586 | 19,921 | 9,108  | 10,927 | 21,598 | 72     | 57     | 245,763 |
| 1929..... | 783    | 6,231 | 4,032 | 51,099  | 153,385 | 26,536 | 11,413 | 13,939 | 22,499 | 94     | 32     | 290,043 |
| 1930..... | 906    | 6,299 | 4,072 | 60,098  | 163,913 | 26,879 | 11,574 | 12,904 | 21,989 | 86     | 39     | 308,759 |
| 1931..... | 838    | 5,324 | 4,533 | 99,381  | 153,451 | 22,625 | 10,691 | 13,113 | 17,671 | 80     | 71     | 327,778 |
| 1932..... | 825    | 3,573 | 3,841 | 112,132 | 131,374 | 18,218 | 7,538  | 8,180  | 12,148 | 55     | 25     | 297,909 |
| 1933..... | 655    | 3,922 | 3,483 | 117,433 | 124,589 | 15,396 | 6,355  | 9,698  | 11,051 | 68     | 23     | 292,673 |

### 10.—Summary Convictions, by Offences, years ended Sept. 30, 1930-33.

| Offence.                                                       | 1930.   | 1931.   | 1932.   | 1933.   | Increase or<br>Decrease,<br>1932-33. |
|----------------------------------------------------------------|---------|---------|---------|---------|--------------------------------------|
| Assault.....                                                   | 4,177   | 4,809   | 4,107   | 3,658   | -449                                 |
| Carrying firearms and unlawful weapons.....                    | 535     | 592     | 525     | 361     | -164                                 |
| Contempt of court.....                                         | 26      | 38      | 33      | 26      | -7                                   |
| Cruelty to animals.....                                        | 320     | 272     | 445     | 244     | -201                                 |
| Disturbing religious and like meetings.....                    | 43      | 30      | 31      | 44      | +13                                  |
| Fishery and Game Acts, offences against.....                   | 2,540   | 2,420   | 2,005   | 1,755   | -250                                 |
| Gambling Acts, offences against.....                           | 6,565   | 8,287   | 14,928  | 22,191  | +7,263                               |
| Immigration Act, offences against.....                         | 58      | 47      | 49      | 41      | -8                                   |
| Inspection and Sales Act, offences against.....                | 873     | 180     | 394     | 303     | -91                                  |
| Adulteration of food (Food and Drugs Acts).....                | 172     | 119     | 81      | 162     | +81                                  |
| Weights and Measures Acts, offences against.....               | 176     | 108     | 92      | 155     | +63                                  |
| Liquor, Prohibition and Temperance Acts, offences against..... | 18,132  | 16,185  | 12,226  | 10,489  | -1,737                               |
| Malicious or wilful damage to property.....                    | 1,009   | 859     | 774     | 811     | +37                                  |
| Masters and Servants Acts, offences against.....               | 235     | 327     | 124     | 219     | +95                                  |
| Non-payment of wages.....                                      | 1,677   | 1,918   | 1,852   | 1,492   | -360                                 |
| Breaches of traffic regulations.....                           | 185,584 | 212,361 | 190,660 | 186,848 | -3,812                               |
| Breaches of by-laws.....                                       | 14,625  | 14,351  | 13,312  | 14,784  | +1,472                               |
| Non-support of family and neglecting children.....             | 2,098   | 1,909   | 1,575   | 1,363   | -212                                 |

## 10.—Summary Convictions, by Offences, years ended Sept. 30, 1930-33—concluded.

| Offence.                                                        | 1930.          | 1931.          | 1932.          | 1933.          | Increase or<br>Decrease,<br>1932-33. |
|-----------------------------------------------------------------|----------------|----------------|----------------|----------------|--------------------------------------|
| Contributing to delinquency of children..                       | 801            | 880            | 719            | 952            | +233                                 |
| Opium and Narcotic Drug Act, various<br>offences against.....   | 242            | 80             | 140            | 59             | -81                                  |
| Profanation of the Lord's Day.....                              | 944            | 1,467          | 1,294          | 929            | -365                                 |
| Railway Acts, various offences against...                       | 1,284          | 1,709          | 1,198          | 1,663          | +465                                 |
| Trespass on railway.....                                        | 1,332          | 1,287          | 1,170          | 915            | -255                                 |
| Stealing ride on railway.....                                   | 1,638          | 2,137          | 1,471          | 2,277          | +806                                 |
| Revenue laws, offences against.....                             | 1,647          | 557            | 961            | 1,076          | +115                                 |
| Trespass..... offences against.....                             | 989            | 711            | 964            | 844            | -120                                 |
| Vagrancy.....                                                   | 11,161         | 15,301         | 12,173         | 11,109         | -1,064                               |
| Drunkenness.....                                                | 35,789         | 29,148         | 22,664         | 18,910         | -3,754                               |
| Insulting, abusive and profane language...                      | 578            | 298            | 239            | 346            | +107                                 |
| Frequenting bawdy houses.....                                   | 3,727          | 3,705          | 4,486          | 3,980          | -506                                 |
| Loose, idle, disorderly conduct and dis-<br>turb the peace..... | 7,510          | 3,999          | 4,047          | 2,613          | -1,434                               |
| Various other offences.....                                     | 2,272          | 1,692          | 3,170          | 2,054          | -1,116                               |
| <b>Totals.....</b>                                              | <b>308,759</b> | <b>327,778</b> | <b>297,909</b> | <b>292,673</b> | <b>-5,236</b>                        |

**Convictions for Drunkenness.**—The number of summary convictions for drunkenness in Canada in 1933 was 18,910 as compared with 38,826 as recently as 1929. Maximum figures were attained in the years 1913 and 1914; during the War there was an appreciable reduction and since the War, while figures have fluctuated, they have not approximated former high levels. The decline in the last few years would appear to be at least partly due to the depression. Table 11 shows the number of convictions by provinces and years from 1911 to 1933.

## 11.—Convictions for Drunkenness, by Provinces, years ended Sept. 30, 1911-33.

NOTE.—For figures for 1900-1910, see p. 1021 of the 1933 Year Book.

| Year.     | P.E.I. | N.S.  | N.B.  | Que.   | Ont.   | Man.  | Sask. | Alta. | B.C.  | Yukon. | N.W.T. | Total. |
|-----------|--------|-------|-------|--------|--------|-------|-------|-------|-------|--------|--------|--------|
| 1911..... | 238    | 3,149 | 1,944 | 6,805  | 11,347 | 5,832 | 2,359 | 4,041 | 5,594 | 63     | 7      | 41,379 |
| 1912..... | 309    | 3,693 | 2,116 | 9,863  | 12,785 | 6,925 | 2,462 | 6,657 | 8,275 | 72     | 14     | 53,171 |
| 1913..... | 324    | 3,965 | 2,073 | 12,265 | 16,236 | 7,493 | 2,970 | 7,283 | 8,316 | 60     | -      | 60,975 |
| 1914..... | 342    | 3,999 | 1,765 | 12,776 | 17,703 | 6,193 | 2,142 | 5,710 | 9,376 | 61     | -      | 60,067 |
| 1915..... | 231    | 3,436 | 1,694 | 8,939  | 12,553 | 4,154 | 1,332 | 2,802 | 5,960 | 60     | -      | 41,161 |
| 1916..... | 219    | 3,614 | 1,696 | 7,108  | 11,728 | 3,114 | 1,062 | 1,809 | 2,327 | 53     | -      | 32,730 |
| 1917..... | 207    | 2,546 | 1,516 | 8,025  | 10,945 | 1,085 | 770   | 391   | 2,372 | 25     | -      | 27,882 |
| 1918..... | 96     | 2,435 | 704   | 6,680  | 7,932  | 1,123 | 434   | 826   | 778   | 19     | -      | 21,026 |
| 1919..... | 116    | 2,879 | 1,350 | 7,116  | 8,498  | 1,670 | 618   | 1,057 | 1,004 | 9      | -      | 24,217 |
| 1920..... | 120    | 3,140 | 1,882 | 11,863 | 15,021 | 2,330 | 919   | 1,636 | 2,948 | 10     | -      | 39,769 |
| 1921..... | 144    | 2,156 | 1,264 | 9,944  | 14,498 | 1,429 | 708   | 1,838 | 2,379 | 2      | -      | 34,362 |
| 1922..... | 162    | 1,492 | 1,088 | 7,103  | 10,063 | 1,623 | 816   | 1,608 | 1,081 | 12     | -      | 25,048 |
| 1923..... | 164    | 1,392 | 1,074 | 6,260  | 11,370 | 1,680 | 884   | 1,277 | 1,443 | 21     | -      | 25,566 |
| 1924..... | 94     | 1,456 | 1,176 | 6,146  | 12,993 | 1,948 | 505   | 1,464 | 1,545 | 11     | -      | 27,393 |
| 1925..... | 112    | 1,466 | 1,171 | 6,342  | 11,811 | 1,948 | 668   | 1,374 | 1,844 | 9      | 6      | 26,751 |
| 1926..... | 168    | 1,898 | 1,234 | 5,364  | 13,752 | 1,871 | 487   | 1,413 | 2,114 | 6      | 10     | 28,317 |
| 1927..... | 182    | 2,053 | 1,397 | 7,000  | 14,334 | 1,883 | 618   | 1,182 | 2,496 | 26     | -      | 31,171 |
| 1928..... | 263    | 2,176 | 1,285 | 6,362  | 15,931 | 1,863 | 1,014 | 1,638 | 2,758 | 34     | -      | 33,224 |
| 1929..... | 400    | 3,284 | 1,814 | 8,328  | 17,620 | 1,830 | 794   | 1,810 | 2,898 | 42     | -      | 38,820 |
| 1930..... | 393    | 3,236 | 1,706 | 7,649  | 15,970 | 1,392 | 674   | 1,551 | 3,183 | 35     | -      | 35,789 |
| 1931..... | 446    | 2,137 | 1,541 | 7,461  | 12,404 | 1,089 | 466   | 1,191 | 2,372 | 41     | -      | 29,148 |
| 1932..... | 355    | 1,402 | 1,142 | 5,913  | 10,388 | 1,023 | 319   | 908   | 1,195 | 19     | -      | 22,664 |
| 1933..... | 297    | 1,478 | 1,127 | 4,575  | 8,724  | 737   | 286   | 689   | 1,068 | 28     | 1      | 18,910 |



**Offences against the Liquor Acts.**—Until the Great War, alcoholic liquors were generally sold under specified conditions by licensed hotels or licensed shops. Offences against the Liquor Acts usually represented a breach of the conditions of sale. During the War, prohibition was generally established but in more recent years the tendency has been for the Provincial Governments to take over the sale of liquor, to manage this sale through commissions and derive a revenue therefrom. Eight of the nine provinces now have their liquor commissions, Prince Edward Island being the only province in which prohibition prevails. In these circumstances, the convictions for offences against the Liquor Acts in 1929 reached the highest figure on record, *viz.*, 19,327, but have since fallen off to 10,489 in 1933. The number of such convictions in each year since 1911 is given by provinces in Table 12.

**12.—Convictions for Offences against the Liquor Acts, by Provinces, years ended Sept. 30, 1911-33.**

NOTE.—For figures for the years 1900-1910, see p. 1022 of the 1933 Year Book.

| Year.     | P.E.I. | N.S. | N.B. | Que.  | Ont.  | Man.  | Sask. | Alta. | B.C.  | Yukon. | N.W.T. | Total. |
|-----------|--------|------|------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 1911..... | 38     | 592  | 278  | 1,032 | 1,759 | 46    | 240   | 423   | 318   | 33     | 16     | 4,775  |
| 1912..... | 36     | 551  | 361  | 859   | 2,117 | 85    | 366   | 605   | 625   | 40     | 26     | 5,671  |
| 1913..... | 26     | 502  | 447  | 791   | 2,167 | 166   | 528   | 560   | 741   | 41     | —      | 5,969  |
| 1914..... | 72     | 660  | 365  | 882   | 2,328 | 166   | 404   | 551   | 394   | 49     | —      | 5,871  |
| 1915..... | 42     | 633  | 390  | 1,021 | 2,018 | 124   | 378   | 573   | 246   | 27     | —      | 5,452  |
| 1916..... | 75     | 646  | 352  | 1,015 | 2,002 | 172   | 967   | 713   | 295   | 11     | —      | 6,248  |
| 1917..... | 36     | 449  | 312  | 1,076 | 2,927 | 289   | 774   | 885   | 576   | 15     | —      | 7,339  |
| 1918..... | 42     | 412  | 288  | 1,155 | 3,410 | 230   | 422   | 678   | 812   | 23     | —      | 7,472  |
| 1919..... | 37     | 479  | 387  | 1,479 | 3,353 | 175   | 434   | 436   | 597   | 6      | —      | 7,383  |
| 1920..... | 23     | 394  | 585  | 1,975 | 4,385 | 380   | 452   | 618   | 1,427 | 8      | —      | 10,247 |
| 1921..... | 44     | 362  | 419  | 1,384 | 4,938 | 427   | 583   | 907   | 1,394 | 2      | —      | 10,460 |
| 1922..... | 28     | 267  | 366  | 954   | 3,246 | 392   | 708   | 1,043 | 1,503 | 12     | —      | 8,519  |
| 1923..... | 39     | 264  | 364  | 1,724 | 3,958 | 542   | 997   | 990   | 1,196 | 14     | —      | 10,088 |
| 1924..... | 29     | 293  | 375  | 1,549 | 4,678 | 452   | 966   | 817   | 1,286 | 4      | —      | 10,449 |
| 1925..... | 51     | 235  | 319  | 1,919 | 5,047 | 512   | 1,078 | 758   | 1,699 | 9      | 9      | 11,636 |
| 1926..... | 53     | 499  | 393  | 2,104 | 6,362 | 786   | 1,231 | 737   | 1,345 | 2      | —      | 13,512 |
| 1927..... | 66     | 610  | 271  | 2,025 | 5,620 | 627   | 1,245 | 814   | 1,186 | 13     | —      | 12,477 |
| 1928..... | 69     | 688  | 478  | 2,096 | 7,812 | 598   | 1,174 | 944   | 1,350 | 22     | 32     | 15,263 |
| 1929..... | 81     | 804  | 486  | 3,392 | 9,034 | 1,399 | 1,542 | 1,017 | 1,556 | 8      | 8      | 19,327 |
| 1930..... | 98     | 532  | 469  | 3,043 | 8,995 | 1,180 | 1,392 | 970   | 1,432 | 14     | 7      | 18,132 |
| 1931..... | 52     | 588  | 541  | 2,956 | 8,044 | 1,144 | 1,042 | 888   | 907   | 13     | 10     | 16,185 |
| 1932..... | 50     | 353  | 489  | 2,379 | 6,057 | 900   | 629   | 557   | 790   | 14     | 8      | 12,226 |
| 1933..... | 52     | 586  | 559  | 1,755 | 5,067 | 708   | 553   | 410   | 782   | 13     | 4      | 10,489 |

**Breaches of Traffic Regulations.**—Convictions for breaches of traffic regulations (Table 13), which at the beginning of the century numbered only 185 in all Canada have, as a result of the growing density and increasing speed of motor vehicles, become the largest element in the non-indictable offences. Such convictions reached a record total of 212,361 in 1931, when they represented 65 p.c. of the total of 327,778 (see Table 9) summary convictions. Breaches of traffic regulations, numbering 186,848 in 1933, were 64 p.c. of all summary convictions in that year.

### 13.—Convictions for Breaches of Traffic Regulations, by Provinces, years ended Sept. 30, 1911-33.

NOTE.—For figures for the years 1900-10, see p. 1023 of the 1933 Year Book.

| Year.     | P.E.I. | N.S. | N.B.  | Que.   | Ont.    | Man.   | Sask. | Alta. | B.C.   | Yukon. | N.W.T. | Total.  |
|-----------|--------|------|-------|--------|---------|--------|-------|-------|--------|--------|--------|---------|
| 1911..... | 19     | 86   | 17    | 267    | 3,376   | 1,116  | 96    | 139   | 661    | —      | —      | 5,777   |
| 1912..... | 8      | 97   | 24    | 1,806  | 5,928   | 1,778  | 215   | 838   | 1,768  | —      | —      | 12,462  |
| 1913..... | 9      | 83   | 5     | 3,373  | 6,697   | 3,030  | 248   | 672   | 1,883  | —      | —      | 16,000  |
| 1914..... | 7      | 176  | 69    | 2,643  | 4,717   | 2,419  | 410   | 754   | 2,051  | —      | —      | 13,246  |
| 1915..... | 6      | 62   | 101   | 1,509  | 4,494   | 1,865  | 204   | 503   | 1,804  | —      | —      | 10,549  |
| 1916..... | 7      | 228  | 57    | 2,146  | 5,577   | 1,043  | 321   | 380   | 615    | 1      | —      | 10,381  |
| 1917..... | 13     | 324  | 54    | 1,677  | 9,854   | 2,619  | 441   | 533   | 813    | 10     | —      | 16,338  |
| 1918..... | 17     | 523  | 80    | 3,505  | 12,206  | 2,700  | 418   | 736   | 995    | 1      | —      | 21,181  |
| 1919..... | 15     | 509  | 62    | 4,971  | 13,374  | 3,123  | 863   | 701   | 1,677  | 1      | —      | 25,296  |
| 1920..... | 129    | 600  | 49    | 11,499 | 19,708  | 4,987  | 744   | 1,673 | 3,780  | 1      | —      | 43,170  |
| 1921..... | 109    | 443  | 87    | 12,335 | 26,860  | 4,995  | 700   | 1,845 | 4,412  | 2      | —      | 51,788  |
| 1922..... | 38     | 289  | 315   | 3,344  | 31,813  | 4,968  | 1,112 | 1,996 | 4,101  | 1      | —      | 47,977  |
| 1923..... | 36     | 397  | 196   | 1,746  | 33,402  | 6,182  | 1,246 | 2,514 | 4,095  | 1      | —      | 49,815  |
| 1924..... | 49     | 350  | 237   | 3,818  | 40,530  | 6,412  | 1,282 | 2,301 | 5,084  | —      | —      | 60,063  |
| 1925..... | 27     | 200  | 281   | 4,976  | 44,618  | 5,971  | 1,375 | 1,940 | 4,389  | 1      | —      | 63,778  |
| 1926..... | 64     | 263  | 180   | 5,534  | 52,727  | 8,588  | 1,730 | 2,059 | 6,882  | —      | —      | 78,027  |
| 1927..... | 69     | 402  | 244   | 6,418  | 62,037  | 10,871 | 1,610 | 2,459 | 12,268 | 2      | —      | 96,380  |
| 1928..... | 228    | 462  | 516   | 6,273  | 101,356 | 14,099 | 2,100 | 3,481 | 12,976 | 2      | —      | 141,493 |
| 1929..... | 152    | 859  | 887   | 19,427 | 105,703 | 19,460 | 3,643 | 5,612 | 10,592 | 2      | —      | 166,337 |
| 1930..... | 212    | 831  | 757   | 28,633 | 115,073 | 20,672 | 3,727 | 4,903 | 10,776 | —      | —      | 185,584 |
| 1931..... | 95     | 999  | 1,200 | 64,611 | 111,718 | 16,556 | 4,259 | 5,070 | 7,851  | 2      | —      | 212,361 |
| 1932..... | 174    | 643  | 842   | 70,253 | 94,183  | 13,251 | 2,811 | 2,755 | 5,743  | —      | —      | 190,660 |
| 1933..... | 82     | 628  | 693   | 72,464 | 91,521  | 11,021 | 1,859 | 3,282 | 5,298  | —      | —      | 186,848 |

The greatest percentage increases were recorded between 1908 and 1913. In this 5-year period total convictions increased from 1,270 to 16,000. For three years thereafter there was an abrupt decline, but beginning with 1917 another 5-year series of increases brought the total up to 51,788 in 1921; by 1924 the 60,000 mark had been reached, and recent years have witnessed a rapid increase to the high total of 212,361 in 1931, since when there has been a slight decline. The provincial distribution of the totals indicates that for the past five years Quebec shows the largest percentage of increase. Only Quebec and Alberta show increases for 1933 as compared with 1932, the remainder of the provinces showing decreases. For the year 1933, Ontario, which had 48 p.c. of the registrations of motor vehicles in Canada (see p. 738), had 49 p.c. of the total convictions; Quebec in the same year had 15 p.c. of the motor vehicles and 39 p.c. of the convictions; and Manitoba 6.3 p.c. of the motor vehicles and 5.9 p.c. of the convictions. In interpreting the figures in this way, however, it should be pointed out that traffic regulations are by no means uniform throughout Canada and no account is taken of the differences in the degrees of urbanization in the provinces. Thus, the above three provinces contain large centres of population, while in the Maritime Provinces, Saskatchewan and Alberta, with a lower degree of urbanization, convictions were low in proportion to the number of motor vehicles registered.

### Section 4.—Juvenile Delinquency.

Juveniles under 16 years of age to the number of 7,453 were found guilty of various offences in the year ended Sept. 30, 1933, as compared with 7,363 in 1932, 7,768 in 1931, 8,425 in 1930, 7,826 in 1929, 7,699 in 1928, 8,185 in 1927 and 7,831 in 1926. Of the 1933 total, 5,144 were convicted of "major" offences and 2,309 of "minor" offences, terms which correspond very nearly to "indictable" and "non-indictable" offences, as applied to adults. The offences proven against juveniles in 1932 and 1933 are shown by provinces in Table 14.

**14.—Juvenile Delinquents Convicted of Major and Minor Offences, by Provinces and Sex, years ended Sept. 30, 1932 and 1933.**

| Province.                 | Major Offences. |              |            |            | Minor Offences. |              |            |            |
|---------------------------|-----------------|--------------|------------|------------|-----------------|--------------|------------|------------|
|                           | Males.          |              | Females.   |            | Males.          |              | Females.   |            |
|                           | 1932.           | 1933.        | 1932.      | 1933.      | 1932.           | 1933.        | 1932.      | 1933.      |
| Prince Edward Island..... | 4               | 8            | —          | 1          | —               | 2            | 2          | 1          |
| Nova Scotia.....          | 177             | 201          | 7          | 8          | 59              | 132          | 19         | 9          |
| New Brunswick.....        | 183             | 254          | 3          | 8          | 74              | 83           | 13         | 11         |
| Quebec.....               | 1,207           | 1,321        | 86         | 105        | 535             | 656          | 145        | 188        |
| Ontario.....              | 1,679           | 1,624        | 93         | 62         | 736             | 741          | 83         | 88         |
| Manitoba.....             | 754             | 727          | 66         | 59         | 280             | 223          | 43         | 28         |
| Saskatchewan.....         | 214             | 142          | 15         | 7          | 21              | 9            | 6          | 2          |
| Alberta.....              | 288             | 245          | 18         | 16         | 122             | 34           | 4          | 1          |
| British Columbia.....     | 291             | 349          | 11         | 7          | 114             | 93           | 11         | 8          |
| <b>Canada.....</b>        | <b>4,797</b>    | <b>4,871</b> | <b>299</b> | <b>273</b> | <b>1,941</b>    | <b>1,973</b> | <b>326</b> | <b>336</b> |

**Major Offences.**—In Table 15 are shown the various major offences for which juvenile delinquents were convicted in 1927 to 1933. It will be observed that theft, house- and shop-breaking with theft, and other wilful damage to property account for the great bulk of the offences; in 1933, 93 p.c. of the major offences were of this character.

**15.—Juvenile Delinquents Convicted of Major Offences, by Offences, years ended Sept. 30, 1927-33.**

| Offence.                                   | 1927.        | 1928.        | 1929.        | 1930.        | 1931.        | 1932.        | 1933.        | Increase or Decrease in 1933. |
|--------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------------------|
| Manslaughter.....                          | —            | —            | 1            | —            | 1            | —            | 1            | + 1                           |
| Rape, carnal knowledge and incest          | 5            | 13           | 10           | 5            | 8            | 5            | 8            | + 3                           |
| Indecent assault.....                      | 28           | 43           | 25           | 49           | 42           | 34           | 28           | — 6                           |
| Aggravated assault and wounding..          | 14           | 24           | 48           | 10           | 52           | 68           | 16           | —52                           |
| Common assault.....                        | 99           | 67           | 93           | 101          | 119          | 104          | 139          | +35                           |
| Endangering life on railway.....           | 28           | 35           | 43           | 31           | 32           | 17           | 50           | +33                           |
| Other offences against the person...       | 5            | 2            | 3            | 3            | 2            | 4            | 5            | + 1                           |
| Breaking, entering and theft.....          | 770          | 818          | 972          | 944          | 948          | 914          | 957          | +43                           |
| Robbery.....                               | 2            | 6            | 4            | 7            | 13           | 13           | 15           | + 2                           |
| Theft and receiving stolen goods...        | 3,289        | 3,255        | 3,081        | 3,662        | 3,139        | 3,093        | 3,155        | +62                           |
| False pretences and fraud.....             | 22           | 10           | 15           | 24           | 11           | 9            | 9            | 0                             |
| Arson.....                                 | 5            | 17           | 11           | 31           | 39           | 19           | 24           | + 5                           |
| Other wilful damage to property...         | 793          | 620          | 679          | 702          | 749          | 676          | 637          | —39                           |
| Forgery and offences against currency..... | 7            | 13           | 12           | 17           | 10           | 11           | 4            | — 7                           |
| Immorality.....                            | 68           | 96           | 63           | 52           | 109          | 85           | 72           | —13                           |
| Various other offences.....                | 21           | 44           | 46           | 15           | 37           | 44           | 24           | —20                           |
| <b>Totals.....</b>                         | <b>5,156</b> | <b>5,063</b> | <b>5,106</b> | <b>5,653</b> | <b>5,311</b> | <b>5,096</b> | <b>5,144</b> | <b>+48</b>                    |

**Minor Offences.**—Of the 2,309 juvenile delinquents found guilty of minor offences in 1933, 358 were convicted of breaches of municipal by-laws, 139 of disorderly conduct and disturbing the peace, 498 of disobedience or incorrigibility, 373 of trespass, 203 of truancy, 78 of vagrancy and indecent language and 660 of other minor offences.

### Section 5.—Police Statistics.

In 1933, 164 cities and towns, with populations of 4,000 or over, supplied police statistics to the Dominion Bureau of Statistics. These cities and towns, with an aggregate population of 4,438,810, had 5,087 policemen, who made 335,517 arrests and summonses. The total number of offences committed during the

year and made known to the police was 450,611, and the number of prosecutions was 308,504 or 68.5 p.c. of the known offences. Convictions secured in respect of these offences numbered 271,996, being 60.4 p.c. of the known offences and 88.2 p.c. of the prosecutions.

The number of automobiles reported stolen was 7,249, of which 7,185 were recovered. Of 13,495 bicycles stolen, 6,571 were recovered. The value of other lost articles reported to the police was \$2,305,852, of which \$1,008,959 or 44 p.c. was recovered.

**16.—Police Statistics of Canadian Cities and Towns, by Provinces, years ended Sept. 30, 1932 and 1933.**

| Year and Province.       | Cities and Towns. | Population.      | Police.      | Arrests.       | Summons.       | Population per Policeman. | Arrests per Policeman. |
|--------------------------|-------------------|------------------|--------------|----------------|----------------|---------------------------|------------------------|
|                          | No.               | No.              | No.          | No.            | No.            | No.                       | No.                    |
| <b>1932.</b>             |                   |                  |              |                |                |                           |                        |
| Prince Edward Island.... | 1                 | 12,361           | 8            | 336            | 311            | 1,545                     | 42                     |
| Nova Scotia.....         | 12                | 167,344          | 136          | 4,511          | 1,137          | 1,230                     | 33                     |
| New Brunswick.....       | 5                 | 87,500           | 86           | 2,819          | 950            | 1,017                     | 33                     |
| Quebec.....              | 38                | 1,403,902        | 2,008        | 51,901         | 12,078         | 699                       | 26                     |
| Ontario.....             | 68                | 1,734,958        | 1,875        | 32,517         | 94,662         | 925                       | 17                     |
| Manitoba.....            | 7                 | 273,012          | 309          | 5,478          | 23,264         | 818                       | 18                     |
| Saskatchewan.....        | 8                 | 149,015          | 145          | 2,717          | 3,039          | 1,028                     | 19                     |
| Alberta.....             | 4                 | 192,747          | 194          | 4,034          | 4,890          | 994                       | 21                     |
| British Columbia.....    | 9                 | 344,536          | 431          | 6,993          | 15,063         | 801                       | 16                     |
| <b>Canada.....</b>       | <b>152</b>        | <b>4,365,375</b> | <b>5,192</b> | <b>111,306</b> | <b>155,394</b> | <b>841</b>                | <b>21</b>              |
| <b>1933.</b>             |                   |                  |              |                |                |                           |                        |
| Prince Edward Island.... | 1                 | 12,361           | 8            | 311            | 318            | 1,545                     | 39                     |
| Nova Scotia.....         | 13                | 176,444          | 134          | 4,485          | 1,711          | 1,317                     | 33                     |
| New Brunswick.....       | 6                 | 94,005           | 83           | 2,693          | 637            | 1,133                     | 32                     |
| Quebec.....              | 43                | 1,435,110        | 1,942        | 147,165        | 12,691         | 739                       | 76                     |
| Ontario.....             | 72                | 1,756,865        | 1,841        | 27,796         | 94,949         | 959                       | 15                     |
| Manitoba.....            | 7                 | 273,012          | 315          | 5,147          | 14,124         | 867                       | 16                     |
| Saskatchewan.....        | 8                 | 149,015          | 130          | 2,551          | 2,291          | 1,146                     | 20                     |
| Alberta.....             | 4                 | 186,747          | 195          | 3,376          | 4,108          | 988                       | 17                     |
| British Columbia.....    | 10                | 349,191          | 439          | 6,924          | 4,240          | 795                       | 16                     |
| <b>Canada.....</b>       | <b>164</b>        | <b>4,432,750</b> | <b>5,087</b> | <b>200,448</b> | <b>135,069</b> | <b>873</b>                | <b>39</b>              |

**Section 6.—Penitentiary Statistics.**

The Penitentiaries Branch of the Department of Justice is charged with the administration of the various penitentiaries of Canada. Seven institutions are included in the system, the two largest of which are at Portsmouth, Ont., and St. Vincent de Paul, Que., while the other five are at Dorchester, N.B.; Prince Albert, Sask.; Stony Mountain, Man.; New Westminster (including Piers Island), B.C., and Collins Bay, Ont. During the fiscal year ended Mar. 31, 1934, the average daily population of these institutions was 4,358 and the total net expenditure for the year was \$2,554,890 or \$586 per capita, compared with 4,425 average daily population and \$2,629,213 total net expenditure or \$594 per capita for the year 1933.

The Piers Island Penitentiary, which is administered by the warden of the New Westminster institution, was provided in 1932 for the custody of members of the Doukhobor colony who were given three-year sentences. Those in custody at Piers Island Penitentiary on Mar. 31, 1933, numbered 570 and on Mar. 31, 1934, 531. The inclusion of this population in the general penitentiary statistics affects the comparability of the statistics of these years with those of former years. Details regarding the inmates at Piers Island are therefore given here, in order that, by deduction from the totals given in Tables 19 and 20, particulars comparable



with those of former years may be obtained regarding the population of ordinary penitentiaries. The ages of those in custody at Piers Island were:

| Fiscal Year. | Under 20. | 20-30. | 30-40. | 40-50. | 50-60. | Over 60. | Total. |
|--------------|-----------|--------|--------|--------|--------|----------|--------|
| 1933.....    | 31        | 168    | 97     | 92     | 66     | 116      | 570    |
| 1934.....    | 29        | 153    | 90     | 88     | 64     | 108      | 531    |

These people were of Caucasian race and of the 570 inmates in 1933, 231 were born in Canada and the remaining 339 in Russia; in 1934, of 531 inmates, 231 were born in Canada and 300 in Russia. Particulars regarding their conjugal state and sex were as follows:

| Fiscal Year. | Single. | Married. | Widowed. | Divorced. | Total. | Male. | Female. |
|--------------|---------|----------|----------|-----------|--------|-------|---------|
| 1933.....    | 88      | 435      | 43       | 4         | 570    | 292   | 278     |
| 1934.....    | 78      | 409      | 40       | 4         | 531    | 264   | 267     |

They were all total abstainers and adherents of the Doukhobor creed.

With the exception of the large number of women among the Doukhobors confined at Piers Island, all female convicts are kept in the penitentiary at Portsmouth, a suburb of Kingston, where special quarters and staff are maintained for their detention and supervision. A new building for this purpose was completed and occupied during 1934. Female convicts in custody there on Mar. 31, 1934, numbered 46 compared with 48 in 1932 and 27 in 1925.

Tables 18-20 give the more important penitentiary statistics as reported by the Superintendent. The number of convicts in penitentiaries was 1,865 in 1910, rose to 2,118 in 1916 and declined to 1,468 in 1918. After demobilization and the depression of 1921, the number of convicts rose to 2,640 in 1922, declined to 2,225 in 1924 and then increased to 4,164 in 1932. The increase was particularly rapid after 1929, amounting to 1,395 or 44 p.c. in three years. Excluding the Doukhobors at Piers Island the number of convicts in 1934, at 3,689, was lower than in any of the three preceding years. The number of paroles, as shown in Table 18, reached the high figure of 731 in 1934, including 16 from Piers Island.

Table 19 shows the ages of convicts by groups. If the Doukhobors confined at Piers Island be deducted from the groups in 1934, the remaining total of 3,689 includes 10.3 p.c. under 20 years of age and 47.8 p.c. between 20 and 30 years of age or 58.1 p.c. under 30. In 1914 there were 2,003 convicts of whom 9.3 p.c. were under 20 and 44.4 p.c. between 20 and 30, a total of 53.7 p.c. under 30. In 1923 there were 2,486 convicts and 11.3 p.c. were under 20, 46.6 p.c. between 20 and 30, or 57.9 p.c. under 30 years of age. The average age of convicts appears to be slightly younger since the War, but no definite trend is shown in the past decade, although there is a good deal of variation from year to year. Detailed statistics of the race, nationality by place of birth, conjugal state, sex and religion of convicts are presented in Table 20.

**Movement of Population of Penal Institutions.**—Penal institutions may be classified under four heads: penitentiaries, with slow turnover, since prisoners have long sentences; reformatories for boys and reformatories for girls, also with rather slow turnovers, but more rapid in the case of boys than in that of girls; and lastly common gaols, where the turnover is extremely rapid. If the average population for the year be the average of the inmates at the beginning and end

of the year, and the number discharged be the turnover, the turnover in 1933 was: in penitentiaries, 44 p.c.; in reformatories for boys, 218 p.c.; in reformatories for girls, 92 p.c.; in gaols, no less than 1,287 p.c. Thus, the average time spent in gaol was about four weeks. In dealing with these figures it must be borne in mind that the common gaol population changes from day to day and is partly made up of accused persons awaiting trial who may be liberated to-day or sent to a penitentiary or reformatory to-morrow.

### 17.—Population of Penal Institutions, 1931-33.

NOTE.—Penitentiary statistics until 1919 were supplied directly by each penitentiary and were for the calendar year. For 1920 and subsequent years they have been supplied by the Superintendent of Penitentiaries and are for the fiscal years ended Mar. 31. For other institutions, the figures are for the years ended Sept. 30.

| Penal Institutions.          | In Custody,<br>Beginning<br>of Year. | Admitted<br>during<br>Year. | Discharged<br>during<br>Year. | In Custody,<br>End of<br>Year. |
|------------------------------|--------------------------------------|-----------------------------|-------------------------------|--------------------------------|
| <b>1931.<sup>1</sup></b>     |                                      |                             |                               |                                |
| Penitentiaries.....          | 3,187                                | 1,899                       | 1,372                         | 3,714                          |
| Reformatories for boys.....  | 3,105                                | 10,014                      | 9,737                         | 3,180                          |
| Reformatories for girls..... | 648                                  | 684                         | 644                           | 932                            |
| Gaols.....                   | 4,283                                | 59,358                      | 59,065                        | 4,467                          |
| <b>Totals.....</b>           | <b>11,223</b>                        | <b>71,955</b>               | <b>70,818</b>                 | <b>12,293</b>                  |
| <b>1932.<sup>1</sup></b>     |                                      |                             |                               |                                |
| Penitentiaries.....          | 3,714                                | 1,943                       | 1,493                         | 4,164                          |
| Reformatories for boys.....  | 3,426                                | 8,533                       | 8,431                         | 3,528                          |
| Reformatories for girls..... | 932                                  | 594                         | 674                           | 852                            |
| Gaols.....                   | 4,477                                | 59,081                      | 57,870                        | 4,711                          |
| <b>Totals.....</b>           | <b>12,549</b>                        | <b>70,151</b>               | <b>68,468</b>                 | <b>13,255</b>                  |
| <b>1933.</b>                 |                                      |                             |                               |                                |
| Penitentiaries.....          | 4,164                                | 2,351                       | 1,928                         | 4,587                          |
| Reformatories for boys.....  | 3,528                                | 6,852                       | 7,248                         | 3,132                          |
| Reformatories for girls..... | 852                                  | 652                         | 740                           | 764                            |
| Gaols.....                   | 4,711                                | 56,613                      | 57,150                        | 4,174                          |
| <b>Totals.....</b>           | <b>13,255</b>                        | <b>66,468</b>               | <b>67,066</b>                 | <b>12,657</b>                  |

<sup>1</sup>Apparent lack of balance between the beginning and end of the years 1931 and 1932 is due to revisions in each year resulting from the addition or closing of gaols, institutions or lock-ups in several places.

### 18.—Movement of Convicts, fiscal years ended Mar. 31, 1927-34.

| Schedule.                                      | 1927.           | 1928.              | 1929.              | 1930.        | 1931.        | 1932.        | 1933.           | 1934.                    |
|------------------------------------------------|-----------------|--------------------|--------------------|--------------|--------------|--------------|-----------------|--------------------------|
|                                                | No.             | No.                | No.                | No.          | No.          | No.          | No.             | No.                      |
| <b>In Custody, Beginnings of Years</b>         | <b>2,473</b>    | <b>2,480</b>       | <b>2,560</b>       | <b>2,769</b> | <b>3,187</b> | <b>3,714</b> | <b>4,164</b>    | <b>4,591<sup>4</sup></b> |
| Received by—                                   |                 |                    |                    |              |              |              |                 |                          |
| Forfeiture of parole.....                      | 5               | 7                  | 6                  | 1            | 8            | 8            | 6               | 2                        |
| Revoked paroles.....                           | 20              | 15                 | 14                 | 23           | 19           | —            | 3               | —                        |
| Recapture.....                                 | 3               | —                  | —                  | 1            | 1            | 3            | 1               | —                        |
| Transfer.....                                  | 15              | 9                  | 110                | 187          | 172          | 145          | 218             | 179                      |
| Received from gaols, etc.....                  | 1,003           | 1,171 <sup>4</sup> | 1,253 <sup>4</sup> | 1,436        | 1,699        | 1,787        | 2,123           | 1,532                    |
| <b>Totals Received During Year..</b>           | <b>1,046</b>    | <b>1,202</b>       | <b>1,383</b>       | <b>1,648</b> | <b>1,899</b> | <b>1,943</b> | <b>2,351</b>    | <b>1,713</b>             |
| Discharged by—                                 |                 |                    |                    |              |              |              |                 |                          |
| Death.....                                     | 13 <sup>1</sup> | 16 <sup>4</sup>    | 16                 | 14           | 12           | 16           | 15              | 21                       |
| Escape.....                                    | 3               | 1 <sup>2</sup>     | 2 <sup>3</sup>     | 1            | 1            | 3            | 1               | —                        |
| Expiry of sentence.....                        | 535             | 647                | 577                | 559          | 654          | 837          | 1,063           | 943                      |
| Order of the Court.....                        | 3               | 2                  | 1                  | 2            | 1            | —            | 4               | 5                        |
| Pardon.....                                    | 7               | 11                 | 10                 | 15           | 26           | 19           | 44              | 74                       |
| Parole.....                                    | 377             | 363                | 384                | 363          | 413          | 379          | 488             | 731                      |
| Transfer.....                                  | 15              | 9                  | 110                | 187          | 170          | 150          | 219             | 228                      |
| Deportation.....                               | 80              | 70                 | 61                 | 77           | 89           | 83           | 88 <sup>7</sup> | 80                       |
| Transfer to provincial gaol and execution..... | —               | —                  | —                  | 2            | —            | —            | 5               | —                        |
| Return to provincial authorities..             | 6               | 3                  | 13                 | 10           | 6            | 6            | 1               | 2                        |
| <b>Totals Discharged During Year</b>           | <b>1,039</b>    | <b>1,122</b>       | <b>1,174</b>       | <b>1,230</b> | <b>1,372</b> | <b>1,493</b> | <b>1,928</b>    | <b>2,084</b>             |
| <b>In Custody, Ends of Years.....</b>          | <b>2,480</b>    | <b>2,560</b>       | <b>2,769</b>       | <b>3,187</b> | <b>3,714</b> | <b>4,164</b> | <b>4,587</b>    | <b>4,220</b>             |

<sup>1</sup>While on temporary ticket-of-leave, 2. <sup>2</sup>From asylum. <sup>3</sup>One from asylum. <sup>4</sup>From provincial institutions; 2 in 1928 and 2 in 1929. <sup>5</sup>Includes 1 suicide. <sup>6</sup>This discrepancy between those in custody at the end of the fiscal year 1933 and the beginning of 1934 appears in the reports of the Superintendent of Penitentiaries for those years. <sup>7</sup>Includes 1 by extradition.

19.—Ages of Convicts, as at Mar. 31, 1927-34.

| Age Group.                     | 1927.        | 1928.        | 1929.        | 1900.        | 1931.        | 1932.        | 1933. <sup>1</sup> | 1934. <sup>1</sup> |
|--------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------------|--------------------|
|                                | No.          | No.          | No.          | No.          | No.          | No.          | No.                | No.                |
| Under 20 years.....            | 281          | 338          | 322          | 377          | 484          | 527          | 467                | 409                |
| From 20 to under 30 years..... | 1,036        | 1,137        | 1,274        | 1,460        | 1,710        | 1,908        | 2,052              | 1,916              |
| From 30 to under 40 years..... | 634          | 587          | 629          | 738          | 842          | 970          | 1,027              | 941                |
| From 40 to under 50 years..... | 364          | 336          | 357          | 395          | 437          | 487          | 574                | 538                |
| From 50 to under 60 years..... | 120          | 122          | 141          | 144          | 173          | 196          | 257                | 214                |
| Over 60 years.....             | 45           | 40           | 46           | 73           | 68           | 76           | 210                | 202                |
| <b>Totals.....</b>             | <b>2,480</b> | <b>2,560</b> | <b>2,769</b> | <b>3,187</b> | <b>3,714</b> | <b>4,164</b> | <b>4,587</b>       | <b>4,220</b>       |

<sup>1</sup>See footnote 2, Table 20, also pp. 1100-1101.

20.—Convicts in Penitentiaries, Classified by Race, Birthplace, Religion, etc., as at Mar. 31, 1927-34.

| Item.                      | 1927.        | 1928.        | 1929.        | 1930.           | 1931.           | 1932.           | 1933. <sup>2</sup> | 1934. <sup>2</sup> |
|----------------------------|--------------|--------------|--------------|-----------------|-----------------|-----------------|--------------------|--------------------|
|                            | No.          | No.          | No.          | No.             | No.             | No.             | No.                | No.                |
| <b>By Race—</b>            |              |              |              |                 |                 |                 |                    |                    |
| African.....               | 42           | 43           | 60           | 60 <sup>1</sup> | 75 <sup>1</sup> | 79 <sup>1</sup> | 66 <sup>1</sup>    | 50 <sup>1</sup>    |
| Caucasian.....             | 2,354        | 2,409        | 2,589        | 2,995           | 3,499           | 3,923           | 4,376              | 4,068              |
| Indian.....                | 43           | 50           | 49           | 52              | 59              | 81              | 67                 | 51                 |
| Mongolian.....             | 41           | 58           | 71           | 80              | 81              | 81              | 78                 | 51                 |
| <b>By Place of Birth—</b>  |              |              |              |                 |                 |                 |                    |                    |
| <b>British—</b>            |              |              |              |                 |                 |                 |                    |                    |
| Canadian.....              | 1,540        | 1,589        | 1,747        | 2,056           | 2,441           | 2,806           | 2,976              | 2,803              |
| English and Welsh.....     | 177          | 197          | 209          | 240             | 292             | 309             | 255                | 230                |
| Irish.....                 | 40           | 35           | 43           | 31              | 42              | 46              | 42                 | 41                 |
| Scottish.....              | 61           | 69           | 74           | 95              | 118             | 118             | 102                | 88                 |
| Other British.....         | 29           | 28           | 36           | 33              | 30              | 41              | 33                 | 25                 |
| <b>Foreign—</b>            |              |              |              |                 |                 |                 |                    |                    |
| Austrian or Hungarian..... | 94           | 67           | 78           | 94              | 92              | 90              | 86                 | 74                 |
| Chinese.....               | 37           | 53           | 62           | 74              | 75              | 72              | 71                 | 46                 |
| Italian.....               | 77           | 75           | 66           | 60              | 64              | 74              | 73                 | 67                 |
| Russian.....               | 76           | 85           | 75           | 119             | 95              | 102             | 446                | 392                |
| United States.....         | 209          | 220          | 223          | 253             | 274             | 307             | 282                | 232                |
| Other foreign.....         | 140          | 142          | 156          | 132             | 191             | 199             | 221                | 222                |
| <b>By Conjugal State—</b>  |              |              |              |                 |                 |                 |                    |                    |
| Single.....                | 1,534        | 1,597        | 1,680        | 1,967           | 2,328           | 2,636           | 2,581              | 2,373              |
| Married.....               | 827          | 849          | 965          | 1,088           | 1,240           | 1,352           | 1,777              | 1,647              |
| Widowed.....               | 115          | 110          | 121          | 123             | 139             | 161             | 203                | 179                |
| Divorced.....              | 4            | 4            | 3            | 9               | 7               | 15              | 26                 | 21                 |
| <b>By Sex—</b>             |              |              |              |                 |                 |                 |                    |                    |
| Male.....                  | 2,441        | 2,520        | 2,737        | 3,149           | 3,670           | 4,116           | 4,261              | 3,907              |
| Female.....                | 39           | 40           | 32           | 38              | 44              | 48              | 326                | 313                |
| <b>By Social Habits—</b>   |              |              |              |                 |                 |                 |                    |                    |
| Abstainers.....            | 475          | 446          | 425          | 611             | 872             | 1,076           | 1,682              | 1,560              |
| Temperate.....             | 1,491        | 1,611        | 1,840        | 2,033           | 2,338           | 2,639           | 2,544              | 2,311              |
| Intemperate.....           | 514          | 503          | 504          | 543             | 504             | 449             | 361                | 349                |
| <b>By Religion—</b>        |              |              |              |                 |                 |                 |                    |                    |
| Anglican.....              | 381          | 409          | 480          | 546             | 618             | 678             | 603                | 547                |
| Baptist.....               | 105          | 129          | 144          | 158             | 169             | 173             | 168                | 169                |
| Buddhist.....              | 14           | 39           | 55           | 62              | 68              | 61              | 58                 | 34                 |
| Doukhobor.....             | —            | —            | —            | —               | —               | —               | 593 <sup>2</sup>   | 542 <sup>2</sup>   |
| Greek Catholic.....        | 61           | 43           | 49           | 54              | 69              | 54              | 54                 | 51                 |
| Jewish.....                | 44           | 37           | 53           | 62              | 66              | 89              | 80                 | 83                 |
| Lutheran.....              | 58           | 58           | 62           | 74              | 83              | 97              | 96                 | 90                 |
| Methodist.....             | 192          | —            | —            | —               | —               | 96 <sup>3</sup> | 82 <sup>3</sup>    | 73 <sup>3</sup>    |
| Presbyterian.....          | 269          | 272          | 284          | 318             | 407             | 458             | 437                | 403                |
| Roman Catholic.....        | 1,281        | 1,272        | 1,337        | 1,561           | 1,810           | 2,070           | 2,008              | 1,842              |
| United Church.....         | 3            | 233          | 233          | 273             | 329             | 257             | 257                | 244                |
| Other creeds.....          | 57           | 68           | 72           | 79              | 95              | 131             | 151                | 142                |
| No creed.....              | 15           | —            | —            | —               | —               | —               | —                  | —                  |
| <b>Totals.....</b>         | <b>2,480</b> | <b>2,560</b> | <b>2,769</b> | <b>3,187</b>    | <b>3,714</b>    | <b>4,164</b>    | <b>4,587</b>       | <b>4,220</b>       |

<sup>1</sup> All "coloured". <sup>2</sup> The unusually high figures for many items and the totals in 1933 and 1934 are due to the confinement of Doukhobors in the special penitentiary on Piers island, B.C. See pp. 1100-1101. <sup>3</sup> These persons returned themselves as "Methodist" in spite of the union with Presbyterians and Congregationalists to form the United Church of Canada in 1925.

## CHAPTER XXVIII.—MISCELLANEOUS ADMINISTRATION.

### Section 1.—Public Lands.

Table 1, pp. 1108–1110, summarizes the character and disposition of the land area of Canada. Since there are still large areas which have been little explored and a much larger area not surveyed, and therefore not classified with regard to its possibilities, many of the figures given are estimates, although every care has been taken to consult the most competent authorities, Dominion and provincial, in a position to make such estimates. The continued extension of exploration and surveys will enable the governmental authorities to classify more exactly the lands within their jurisdiction.

In this table the areas of occupied and abandoned farms and of farm woodlots are taken from the Census of 1931. The totals of the land area of the provinces and territories are the areas as revised by the Topographical Survey, Dominion Department of the Interior, and agree with those appearing in the table on p. 7 of this volume, while the areas of Indian reserves are those reported by the Department of Indian Affairs. For other items, figures supplied by the provinces have been used wherever available; otherwise estimates from Dominion Government sources, chiefly the Forest Service, have been substituted. Between the totals of existing and potential agricultural lands (Item 14) and the totals of forest lands (Item 22) there is, of course, duplication to the extent of the agricultural lands under forest (Item 9). In view of the various sources from which the information is drawn there is satisfactory agreement in the relationship of the items.

#### Subsection 1.—Dominion Public Lands.\*

As stated on p. 1019 of the 1931 Year Book, the lands and natural resources lying within the boundaries of the provinces of Manitoba, Saskatchewan, Alberta and British Columbia, which had formerly been administered by the Dominion Government, were transferred to the administration of the provinces concerned at various dates in 1930.

Actual Dominion lands, therefore, now comprise: the Northwest Territories, including the Arctic islands and the islands in Hudson bay; Yukon; the National Park areas (see pp. 46–48), Indian reserves (see p. 1122), and historic sites in the different provinces throughout Canada; certain small and widely scattered parcels of Ordnance and Admiralty lands which have been held by the Dominion Government since Confederation and are rented, disposed of, or otherwise administered with

\* Revised by J. Lorne Turner, Director, Lands, Northwest Territories and Yukon Branch, Department of the Interior.



a view to bringing as many properties as possible to a state of revenue production; and, finally, public lands, at one time alienated, but which have been re-vested in the Crown in the right of the Dominion for various reasons, and upon which public monies have been spent.

The great bulk of the land areas under Dominion administration are those of Yukon and the Northwest Territories, amounting to about 936,680,000 acres or 42 p.c. of the land surface of Canada. The southern border of both Yukon and the Northwest Territories is 60°N. latitude. In Europe, Oslo, Stockholm and Leningrad are near this line, while about three-fourths of Norway, two-thirds of Sweden, all of Finland and a large proportion of Russia are north of it. In Table 1 a distinction has been made between those Dominion lands which are still freely disposable by the Dominion Government, and those which have been set aside as National Parks, under the National Parks Acts, or as Indian reserves, by Treaty. The total Dominion lands can be easily obtained by adding Items 27, 28 and 29.

Interest in this northern part of the national domain has increased in the past decade and the administration of these lands was placed under a separate branch of the Dominion Government, the North West Territories and Yukon Branch of the Department of the Interior, until 1931, when, on the transfer of the natural resources of Manitoba, Saskatchewan, Alberta and of the Railway Belt and Peace River Block of British Columbia to the respective provincial administrations, it was vested in the Dominion Lands Administration, now the Lands, Northwest Territories and Yukon Branch of the Department of the Interior. The Royal Canadian Mounted Police maintain law and order throughout the Northwest Territories and Yukon. More detailed particulars of the administration of each territory follow:—

**The Northwest Territories.**—The government of the Northwest Territories is vested in a Commissioner, a Deputy Commissioner, and a Council of five members with Ottawa as the seat of Government. The administration is carried on by the Department of the Interior through the Lands, Northwest Territories and Yukon Branch. The Territories are subdivided for administrative purposes into the provisional districts of Mackenzie, Keewatin and Franklin. The district of Mackenzie is, as yet, the most widely known and developed, trading posts and settlements being located all along the great stretch of inland waterways known as the Mackenzie system. Fort Smith, the headquarters of the Mackenzie district, is located on the Slave river north of the rapids. From this point there is uninterrupted navigation to the Arctic ocean, a distance of 1,369 miles and along the Arctic coast as far east as King William island.

The Administration has provided for a medical and nursing service, grants to the Anglican and Roman Catholic missions for education and hospitals, an

excellent mail service in which river steamboats and aeroplanes co-operate, motor roads, and a system of radio stations linking up Fort Smith, Resolution, Simpson, Norman and Aklavik with Edmonton, Alberta, and with Dawson and Mayo, Yukon.

The Department of the Interior has set aside certain areas, totalling over 338,916,000 acres, as preserves wherein only the Indian and the Eskimo may hunt. Officers in the field have made investigations into the conditions affecting musk-ox, caribou, and other forms of wild life. The Wood-Buffalo Park in the vicinity of Fort Smith covers an area of 17,300 sq. miles; it has been specially preserved for the protection of the buffalo. The Thelon Game Sanctuary to the east of Great Slave lake is, in its turn, the home of musk-oxen and caribou.

Included in the Northwest Territories are the Arctic Prairies, which are capable of supplying pasturage to large numbers of reindeer and caribou. Following investigation, 2,370 head of reindeer have been imported from Alaska and established on a government reindeer reserve in the vicinity of Kittigazuit, east of the Mackenzie River delta, containing an area of approximately 6,000 square miles. Under the favourable conditions which exist there, everything points to a considerable increase in numbers of the herd. Indications are that this experiment will result in a plentiful meat supply in the future.

The introduction of wireless communication and the development of reception has been a great boon to the isolated posts in the Mackenzie district. It enables traders and trappers to keep in touch with outside markets, and furnishes the inhabitants generally with news of current events.

In view of the great increase in the use of aircraft for mail and general transportation, the Administration is undertaking the development of landing facilities throughout the Mackenzie district. A winter landing field has been partially conditioned at Fort Smith and it is expected that it will be completed during the present year. For summer landing, it is proposed to install floating docks and other conveniences at Fort Smith, Resolution, Rae, Simpson, Norman, Aklavik, and Cameron Bay.

Exploratory work has been carried on throughout the Territories and local surveys made in all districts. Mineral prospectors are following in the tracks of the explorers, the aeroplane being used as the chief means of transportation. The Laurentian Shield, which has proved so rich in valuable minerals in Eastern Canada is continued into the eastern half of the Territories—that portion lying between Great Slave and Great Bear lakes and Hudson bay—and valuable discoveries have been made in this area. The rich native silver and high-grade pitchblende ores discovered during the last few years east and south-east of Great Bear lake are now under development. The oil wells near Norman on the Mackenzie river have

been in active operation since 1932, the bulk of the oil produced being shipped to mining interests operating at the eastern end of Great Bear lake. The agricultural land of the Territories lies almost entirely in the extension of the central plain defined by the Mackenzie valley.

It is known that there are many possible water-power sites throughout the Territories; these will no doubt be developed as a consequence of mining enterprises. Much of the upper Mackenzie valley carries a forest cover, which furnishes timber and fuel for local needs. Fishing, agriculture, mining and lumbering are engaged in to some extent, but the principal industry of the Territories is still the taking and export of furs. Many trading posts operate throughout the regions tributary to the Arctic coast, Hudson bay, and the great inland systems of waterways.

**Yukon.**—The Yukon Territory is administered by the Lands, Northwest Territories and Yukon Branch of the Department of the Interior as in the case of the Northwest Territories. The Comptroller, resident at Dawson, is the executive head of a local elective government of three members termed the Yukon Council, with jurisdiction over local matters. The Comptroller acts on instructions from the Governor in Council or the Minister of the Interior. Hospitals, schools, motor roads, and other amenities of modern life have been provided and, in addition to the overland telegraph line, wireless stations at Dawson and Mayo link up with the outside world through the Northwest Territories and Edmonton.

The route ordinarily taken to enter Yukon is from Skagway, Alaska, on the south, thence by the White Pass and Yukon Railway to Whitehorse, and by river boat to Dawson.

The use of aircraft for transportation purposes is increasing and during 1934 landing fields were conditioned at Whitehorse, Dawson and Mayo, a temporary licence being issued for the first-mentioned field. Sites for fields have been selected at other settlements in the Territory and included in the works program for 1935.

Yukon has produced over \$200,000,000 worth of gold since the Klondike rush, but the old placer claims, operated with cradle, pick and shovel, have given place to consolidated holdings worked with hydraulic dredges and other modern machinery. Silver, lead, copper, tungsten and coal are known to exist in paying quantities, and of late years the development of the silver-lead ores of the Mayo district has been one of the major factors in the growth of lode-mining enterprises. There is a hydro-electric installation of 13,200 h.p. in Yukon, but this is only a small proportion of the possible installation which will be developed as required.

Although fishing, agriculture (including fur-farming), and some lumbering are carried on as auxiliary industries, the future of Yukon is inevitably bound up with mining development.

## 1.—Character and Disposition of

| No. | Description of Land Areas.                                                                                                | P.E.I.     | N.S.              | N.B.                 | Que.                  | Ont.                 |
|-----|---------------------------------------------------------------------------------------------------------------------------|------------|-------------------|----------------------|-----------------------|----------------------|
|     |                                                                                                                           | 000 acres. | 000 acres.        | 000 acres.           | 000 acres.            | 000 acres.           |
|     | <b>Classification by Surface Resources—<br/>Existing and Potential Agricultural<br/>Lands—</b>                            |            |                   |                      |                       |                      |
|     | ALIENATED, PATENTED, GRANTED, ETC.—                                                                                       |            |                   |                      |                       |                      |
| 1   | Occupied farm lands <sup>1</sup> .....                                                                                    | 1,191      | 4,302             | 4,152                | 17,304                | 22,841               |
| 2   | Improved farm lands <sup>1</sup> .....                                                                                    | 766        | 345               | 1,330                | 3,994                 | 13,273               |
| 3   | Farm lands under field crops <sup>1</sup> .....                                                                           | 496        | 676               | 953                  | 6,080                 | 9,360                |
| 4   | Abandoned farms <sup>1</sup> .....                                                                                        | 28         | 323               | 180                  | 333                   | 574                  |
| 5   | Road allowances <sup>2</sup> .....                                                                                        | 37         | 139               | 130                  | 533                   | 702                  |
| 6   | TOTALS, ALIENATED, PATENTED,<br>GRANTED, ETC. <sup>3</sup> .....                                                          | 1,256      | 4,764             | 4,462                | 18,170                | 24,117               |
|     | <b>AGRICULTURAL LAND UNDER FOREST—</b>                                                                                    |            |                   |                      |                       |                      |
| 7   | Farm woodlots <sup>4</sup> .....                                                                                          | 339        | 2,503             | 2,433                | 6,036                 | 4,702                |
| 8   | Other unimproved agricultural lands<br>under forest.....                                                                  | 61         | 4,497             | 6,567                | 23,964                | 45,298               |
| 9   | TOTALS, AGRICULTURAL LAND UNDER<br>FOREST <sup>5</sup> .....                                                              | 400        | 7,000             | 9,000                | 30,000                | 50,000               |
| 10  | Dominion lands <sup>7</sup> suitable for agriculture...                                                                   | Nil        | 2                 | —                    | 3                     | 8                    |
| 11  | Indian Reserves suitable for agriculture<br>(see Table 9, p. 1122).....                                                   | 1          | 3                 | 2                    | 31                    | 136                  |
| 12  | Provincial lands <sup>7</sup> suitable for agriculture<br>other than any already included in<br>Item 8 <sup>8</sup> ..... | Nil        | 103               | 256                  | 4,184                 | 1,718                |
| 13  | Leased lands for ranching, licences of occu-<br>pation, etc. (included in Item 12).....                                   | Nil        | 15                | 15                   | Nil <sup>18</sup>     | 20 <sup>16</sup>     |
| 14  | TOTALS, AGRICULTURAL LANDS <sup>9</sup> .....                                                                             | 1,258      | 8,092             | 10,718               | 43,745                | 65,837               |
|     | <b>Existing and Potential Forest Lands—</b>                                                                               |            |                   |                      |                       |                      |
|     | ALIENATED, GRANTED, ETC.—                                                                                                 |            |                   |                      |                       |                      |
| 15  | Timber lands alienated <sup>1</sup> .....                                                                                 | 124        | 4,200             | 6,299                | 14,000                | 400                  |
| 16  | Farm woodlots <sup>1</sup> .....                                                                                          | 339        | 2,503             | 2,433                | 6,036                 | 4,702                |
| 17  | TOTALS, ALIENATED, GRANTED, ETC. <sup>5</sup> .....                                                                       | 463        | 6,703             | 8,732                | 20,000 <sup>20</sup>  | 5,102                |
| 18  | Dominion Lands <sup>10</sup> under forest.....                                                                            | Nil        | 2                 | —                    | 6                     | 72                   |
| 19  | Indian Reserves under forest (see Table 9,<br>p. 1122).....                                                               | 1          | 17                | 36                   | 165                   | 881                  |
| 20  | Provincial lands <sup>10</sup> under forest.....                                                                          | Nil        | 958               | 7,037                | 226,664 <sup>16</sup> | 113,977              |
| 21  | Under licence to cut, timber berths, pulp<br>concessions, etc. (included in Item 20).....                                 | Nil        | 882 <sup>15</sup> | 6,815 <sup>15</sup>  | 49,518 <sup>16</sup>  | 40,588 <sup>16</sup> |
| 22  | TOTALS, FOREST LANDS <sup>11</sup> .....                                                                                  | 464        | 7,680             | 15,805               | 239,040               | 120,032              |
| 23  | ALIENATED LANDS, OTHER THAN INCLUDED IN<br>ITEMS 6 AND 17 less duplication (Item 16) <sup>24</sup> .....                  | 16         | 36                | 8                    | 34                    | 1,483                |
| 24  | Unproductive Lands as regards Surface<br>Resources <sup>12</sup> .....                                                    | Nil        | 4,504             | 211 <sup>19</sup>    | 82,277                | 96,631               |
|     | <b>Summary Classification, by Tenure—</b>                                                                                 |            |                   |                      |                       |                      |
| 25  | Alienated, patented, granted, etc. <sup>13</sup> .....                                                                    | 1,396      | 9,000             | 10,519 <sup>15</sup> | 24,686 <sup>15</sup>  | 26,000               |
| 26  | In process of alienation.....                                                                                             | Nil        | 15                | 250 <sup>15</sup>    | 4,997 <sup>15</sup>   | 15                   |
| 27  | Dominion lands other than National Parks<br>and Indian Reserves.....                                                      | Nil        | 8                 | 2                    | 18                    | 103                  |
| 28  | Dominion National Parks.....                                                                                              | Nil        | Nil               | Nil                  | Nil                   | 7                    |
| 29  | Indian Reserves.....                                                                                                      | 2          | 20                | 38                   | 194                   | 1,017                |
| 30  | Provincial lands, including leased lands<br>and forest reserves, but not provincial<br>parks.....                         | Nil        | 4,248             | 7,050 <sup>15</sup>  | 302,122               | 202,244              |
| 31  | Provincial parks.....                                                                                                     | Nil        | Nil               | Nil                  | 3,045                 | 3,129                |
| 32  | TOTALS, LAND AREA <sup>9</sup> .....                                                                                      | 1,398      | 13,276            | 17,734 <sup>20</sup> | 335,062               | 232,500              |

<sup>1</sup>Figures from the Census of 1931; "unimproved farm lands" includes "farm woodlots", Item 7 or 16.  
<sup>2</sup>Estimated as 3 p.c. of occupied and abandoned farms, except for the Prairie Provinces, where figures are



## Lands in Canada, (circa) 1934.

| Description of Land Areas.                                                                                          | Man.                       | Sask.                      | Alta.                      | B.C.                       | Yukon<br>and<br>N.W.T. | Total<br>for<br>Canada.       | No.       |
|---------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------|-------------------------------|-----------|
|                                                                                                                     | 000 acres.                 | 000 acres.                 | 000 acres.                 | 000 acres.                 | 000 acres.             | 000 acres.                    |           |
| <b>Classification by Surface Resources—</b>                                                                         |                            |                            |                            |                            |                        |                               |           |
| <b>Existing and Potential Agricultural Lands—</b>                                                                   |                            |                            |                            |                            |                        |                               |           |
| ALIENATED, PATENTED, GRANTED, ETC.—                                                                                 |                            |                            |                            |                            |                        |                               |           |
| Occupied farm lands <sup>1</sup> .....                                                                              | 15,132                     | 55,673                     | 38,977                     | 3,542                      | 5                      | 163,119                       | 1         |
| Improved farm lands <sup>1</sup> .....                                                                              | 8,522                      | 33,648                     | 17,749                     | 706                        | 1                      | 86,733                        | 2         |
| Farm lands under field crops <sup>1</sup> .....                                                                     | 5,842                      | 22,126                     | 12,057                     | 452                        | 1                      | 57,986                        | 3         |
| Abandoned farms <sup>1</sup> .....                                                                                  | 1,163                      | 1,024                      | 1,410                      | 249                        | Nil                    | 5,289                         | 4         |
| Road allowances <sup>1</sup> .....                                                                                  | 978                        | 1,474 <sup>16</sup>        | 1,291 <sup>16</sup>        | 114                        | Nil                    | 5,398                         | 5         |
| <b>TOTALS, ALIENATED, PATENTED, GRANTED, ETC.<sup>3</sup>.....</b>                                                  | <b>22,279<sup>14</sup></b> | <b>61,218<sup>14</sup></b> | <b>45,477<sup>14</sup></b> | <b>3,905</b>               | <b>5</b>               | <b>185,653</b>                | <b>6</b>  |
| <b>AGRICULTURAL LAND UNDER FOREST—</b>                                                                              |                            |                            |                            |                            |                        |                               |           |
| Farm woodlots <sup>4</sup> .....                                                                                    | 2,019                      | 3,508                      | 3,894                      | 1,212                      | 2                      | 26,647                        | 7         |
| Other unimproved agricultural lands under forest.....                                                               | 12,981                     | 26,492                     | 36,106                     | 18,788                     | 3,998                  | 178,752                       | 8         |
| <b>TOTALS, AGRICULTURAL LAND UNDER FOREST<sup>5</sup>.....</b>                                                      | <b>15,000</b>              | <b>30,000</b>              | <b>40,000</b>              | <b>20,000</b>              | <b>4,000</b>           | <b>205,400</b>                | <b>9</b>  |
| Dominion lands <sup>7</sup> suitable for agriculture.....                                                           | —                          | 15                         | 15                         | 15                         | 5,000 <sup>6</sup>     | 5,013 <sup>18</sup>           | 10        |
| Indian Reserves suitable for agriculture (see Table 9, p. 1122).....                                                | 139                        | 820                        | 938                        | 305                        | Nil                    | 2,375                         | 11        |
| Provincial lands <sup>7</sup> suitable for agriculture other than any already included in Item 8 <sup>9</sup> ..... | 7,741                      | 14,232                     | 27,472                     | 1,479                      | Nil                    | 57,185                        | 12        |
| Leased lands for ranching, licences of occupation, etc. (included in Item 12).....                                  | 98 <sup>16</sup>           | 3,717 <sup>16</sup>        | 3,119 <sup>16</sup>        | 546 <sup>16</sup>          | 15                     | 7,500 <sup>18</sup>           | 13        |
| <b>TOTALS, AGRICULTURAL LANDS<sup>9</sup>.....</b>                                                                  | <b>32,380</b>              | <b>80,074</b>              | <b>87,450</b>              | <b>22,603</b>              | <b>9,005</b>           | <b>361,162</b>                | <b>14</b> |
| <b>Existing and Potential Forest Lands—</b>                                                                         |                            |                            |                            |                            |                        |                               |           |
| ALIENATED, GRANTED, ETC.—                                                                                           |                            |                            |                            |                            |                        |                               |           |
| Timber lands alienated <sup>5</sup> .....                                                                           | 3,421                      | 492                        | 2,534                      | 9,400                      | Nil                    | 40,870                        | 15        |
| Farm woodlots <sup>4</sup> .....                                                                                    | 2,019                      | 3,508                      | 3,894                      | 1,212                      | 2                      | 26,647                        | 16        |
| <b>TOTALS, ALIENATED, GRANTED, ETC.<sup>5</sup>.....</b>                                                            | <b>5,440</b>               | <b>4,000</b>               | <b>6,428</b>               | <b>10,600<sup>20</sup></b> | <b>2</b>               | <b>67,470<sup>20</sup></b>    | <b>17</b> |
| Dominion lands <sup>10</sup> under forest.....                                                                      | 1,103 <sup>23</sup>        | 1,661 <sup>23</sup>        | 8,378 <sup>23</sup>        | 942 <sup>23</sup>          | 38,398                 | 50,562 <sup>18</sup>          | 18        |
| Indian Reserves under forest (see Table 9, p. 1122).....                                                            | 337                        | 600                        | 358                        | 442                        | 2                      | 2,838                         | 19        |
| Provincial lands <sup>10</sup> under forest.....                                                                    | 52,640                     | 46,321                     | 65,969                     | 110,267                    | Nil                    | 623,833                       | 20        |
| Under licence to cut, timber berths, pulp concessions, etc. (included in Item 20).....                              | 2,170 <sup>16</sup>        | 403                        | 16                         | 3,336 <sup>16</sup>        | 15                     | 103,712 <sup>18</sup>         | 21        |
| <b>TOTALS, FOREST LANDS<sup>11</sup>.....</b>                                                                       | <b>59,520</b>              | <b>52,582</b>              | <b>81,133</b>              | <b>123,267</b>             | <b>38,400</b>          | <b>737,923</b>                | <b>22</b> |
| ALIENATED LANDS, OTHER THAN INCLUDED IN ITEMS 6 AND 15 <sup>24</sup> .....                                          | 1,236                      | 5,341                      | 1,640                      | 4,712                      | Nil                    | 14,431 <sup>18</sup>          | 23        |
| <b>Unproductive Lands as regards Surface Resources<sup>12</sup>.....</b>                                            | <b>63,723</b>              | <b>49,648</b>              | <b>30,649</b>              | <b>104,069</b>             | <b>893,275</b>         | <b>1,324,987</b>              | <b>24</b> |
| <b>Summary Classification, by Tenure—</b>                                                                           |                            |                            |                            |                            |                        |                               |           |
| Alienated, patented, granted, etc. <sup>13</sup> .....                                                              | 26,550                     | 63,575 <sup>19</sup>       | 49,450                     | 12,847 <sup>16</sup>       | 5                      | 224,028                       | 25        |
| In process of alienation.....                                                                                       | 386 <sup>16</sup>          | 3,476 <sup>10</sup>        | 201 <sup>16</sup>          | 5,170 <sup>16</sup>        | —                      | 14,480 <sup>18</sup>          | 26        |
| Dominion lands other than National Parks and Indian Reserves.....                                                   | 3                          | 30                         | 66                         | 103                        | 934,353 <sup>17</sup>  | 934,686                       | 27        |
| Dominion National Parks.....                                                                                        | 735                        | 1,196                      | 13,430 <sup>21</sup>       | 1,098                      | 2,320 <sup>22</sup>    | 18,792                        | 28        |
| Indian Reserves.....                                                                                                | 474                        | 1,501                      | 1,281                      | 744                        | 2                      | 5,273                         | 29        |
| Provincial lands, including leased lands and forest reserves, but not provincial parks.....                         | 112,475                    | 82,176 <sup>16</sup>       | 94,797                     | 208,230 <sup>16</sup>      | Nil                    | 1,013,342                     | 30        |
| Provincial parks.....                                                                                               | Nil                        | 350 <sup>16</sup>          | 1                          | 1,747 <sup>16</sup>        | Nil                    | 8,271                         | 31        |
| <b>TOTALS, LAND AREA<sup>9</sup>.....</b>                                                                           | <b>140,623</b>             | <b>152,304</b>             | <b>159,232</b>             | <b>229,939</b>             | <b>936,680</b>         | <b>2,218,747<sup>20</sup></b> | <b>32</b> |

brought up to date from the 1930 Year Book, p. 961. <sup>3</sup>Assumed to be the sum of occupied and abandoned farms and road allowances, except for the Prairie Provinces (see footnote 14). <sup>4</sup>Woodlots or forested areas

Footnotes concluded at foot of p. 1110.

### Subsection 2.—Provincial Public Lands.

In the Maritime Provinces, in Quebec, Ontario and British Columbia (except the Railway Belt and the Peace River Block) the public lands have been administered by the Provincial Governments since Confederation. Owing to the transfer of the natural resources to the Prairie Provinces and British Columbia, as outlined in Chapter XXVII, p. 1019 of the 1931 Year Book, public lands in all provinces are now under provincial administration. In Prince Edward Island, all the land is alienated and there are no provincial public lands.

Information regarding the amounts of disposable public land and the terms on which areas may be secured was regularly given from year to year for each of the provinces in editions of the Canada Year Book prior to 1933. However, since the revisions since that time have been of a minor character and as there is a heavy pressure upon space, it has been decided to refer those interested in securing provincial public lands to pp. 921-927 of the 1932 Year Book, and to the following officials of the respective provinces: Minister of Lands and Forests, Halifax, N.S.; Deputy Minister of Lands and Mines, Fredericton, N.B.; Deputy Minister of Lands and Forests, Quebec, Que.; Minister of Lands and Forests, Parliament Bldgs. Toronto, Ont.; Director of Lands, Department of Mines and Natural Resources, Winnipeg, Man.; Director of Lands, Department of Natural Resources, Regina, Sask.; Publicity Commissioner, Edmonton, Alta.; Deputy Commissioner of Lands, Victoria, B.C.

of occupied farms as reported in the Census of 1931. <sup>8</sup>Figures from the Forest Service, Department of the Interior. <sup>9</sup>Other than any included in Item 6. <sup>10</sup>Does not include National and Provincial Parks. Undoubtedly there are limited areas of lands in the Dominion and Provincial Parks suited to certain branches of agriculture, such as grazing. Since, however, these areas have been dedicated to the public for recreational purposes, primarily because of their scenic resources, such potential agricultural lands as they contain are precluded from being diverted to such uses. <sup>11</sup>This item is an approximation got by subtracting the sum of Items 2, 5, 9, 10 and 11 from Item 14. <sup>12</sup>Estimated by the Topographical Survey, Department of the Interior. Where this figure differs from the totals of Items 25-31, inclusive, the provincial estimates for Items 25, 26, 30 or 31 are not in line with total area as estimated by the Topographical Survey. <sup>13</sup>Dominion lands or provincial lands under forest include forested areas in the Dominion National and Provincial Parks. <sup>14</sup>This item is the total productive and unproductive forest area, by provinces, as estimated by the Forest Service of the Department of the Interior and given in square miles on p. 319 of this volume. Indian Reserves are not included in Item 18, but are shown separately as Item 19. Apart from this exception, Items 18 and 20 include all Dominion and Provincial lands under forest (Crown lands, National Parks, Ordnance lands, Military lands, reserves, etc.). <sup>15</sup>These lands include rock, open muskeg, burnt-over lands which are not re-stocking, and lands above timber line. All such lands are by no means economically barren, since in many cases they are sources of valuable mineral wealth or as in large areas in the National Parks, they have often a distinct economic value resulting from their scenic resources. Figures have been estimated by subtracting from the total land area the sum of agricultural and forest lands less the duplication involved (Item 9). <sup>16</sup>This item includes lands in process of alienation where such are not reported under Item 26, also where the figures are not available from provincial sources it is estimated by adding forest and agricultural lands alienated and allowing for urban and other areas alienated (Item 23). <sup>17</sup>From the 1930 Year Book, p. 961. This total is not the sum of the Items 1, 4 and 5, because of alienated lands in the form of grants to railway companies, grants to the Hudson's Bay Co., school land endowment, adjustments to road allowances as per footnote 3, etc. <sup>18</sup>No estimate available. <sup>19</sup>Figures are obtained from provincial sources. <sup>20</sup>In Yukon and N.W.T. areas aggregating 338,916,000 acres have been set apart by Order in Council as game preserves and sanctuaries in which only native Indians and Eskimos may hunt, but have not been permanently dedicated to this purpose by Parliament and are not, therefore, regarded as parks. <sup>21</sup>For the provinces indicated only. <sup>22</sup>There is very little unproductive land in New Brunswick. <sup>23</sup>This total is not the addition of the column items because the figures, being obtained from the various sources shown do not tie-in with one another. <sup>24</sup>Including the Wood-Buffalo Park (which, though reserved by the Dominion, is not administered by the National Parks Branch) and the Tar Sands Reserve. <sup>25</sup>That portion of the Wood-Buffalo Park in the Northwest Territories. <sup>26</sup>This is the forested area in the National Parks as estimated by the National Parks Branch, Department of the Interior. <sup>27</sup>Includes also other lands alienated since the Census of 1931 or, in the case of the Prairie Provinces, since the time of the original estimate (see footnote 14). These figures are approximations calculated for each province by deducting the sum of Items 6 and 15 from the sum of Items 25 and 26. In the case of Quebec a negative acreage is indicated. This would seem to suggest that reversions to the Crown since 1931 have more than offset any areas under this head.

## Section 2.—National Defence.\*

Before the outbreak of the Great War, the Canadian Militia consisted of a Permanent Force, which on Mar. 31, 1914, numbered 3,000 officers, non-commissioned officers and men, and an Active Militia, which at the same date numbered 5,615 officers and 68,991 non-commissioned officers and men. After the outbreak of war on Aug. 4, 1914, successive contingents of troops of all arms were recruited, equipped, trained and dispatched by the Dominion Government to England for active service. When hostilities ceased on Nov. 11, 1918, there had been sent overseas, for active service in the Canadian Expeditionary Force, about 418,000 officers, non-commissioned officers and men.† In addition to these, several thousand Canadians served with the Royal Air Force.

**Organization.**—Prior to 1922, three departments of the Canadian Government were concerned with the defence of Canada, *viz.*, the Department of Militia and Defence, the Department of the Naval Service, and the Air Board.

During the Session of 1922, the National Defence Act was passed, consolidating the Department of Militia and Defence, the Department of the Naval Service and the Air Board into the Department of National Defence. This Act became effective by proclamation on Jan. 1, 1923. Under it, there is a Minister of National Defence and a Deputy Minister of National Defence. To advise the Minister, a Defence Council has been constituted by Order in Council, consisting of a President (the Minister), a Vice-President (the Deputy Minister), and the following members: the Chief of the General Staff and the Chief of the Naval Staff. The Adjutant-General, the Quartermaster-General and the Senior Air Officer, Royal Canadian Air Force, are associate members. There is also a Secretary of the Council.

### Subsection 1.—The Naval Service.

The Naval Service of Canada was established by the Naval Service Act, 1910 (9-10 Edw. VII, c. 43), the main provisions of which were described in the 1910 Year Book, pp. xxvi-xxix.

The Department of Naval Service was amalgamated with the Department of Militia and Defence and the Canadian Air Board, to form the Department of National Defence, in 1922.

The Royal Canadian Navy and its Reserve Forces are under the direction of the Chief of the Naval Staff, who is a member of the Defence Council. The Service consists of:—

1. Royal Canadian Navy (permanent).
2. Royal Canadian Naval Reserve (non-permanent).
3. Royal Canadian Naval Volunteer Reserve (non-permanent).

Administrative and operational staff for all three Forces is provided from the Royal Canadian Navy.

**The Royal Canadian Navy.**—The Royal Canadian Navy has an authorized complement of 104 officers and 812 ratings. A large majority of the men of the R.C.N. are serving under 7-year engagements. A small proportion consists of specialist gunnery, torpedo, and engine-room ratings, lent from the Royal Navy (in December, 1934, this proportion amounted to 2 p.c.).

\*Revised by H. W. Brown, Asst. Deputy Minister, Department of National Defence.

†For the detailed expenditures of the Dominion Government on account of war appropriations in the fiscal years 1915-21, see the Canada Year Book, 1921, p. 798.



A proportion of the officers of the Royal Canadian Navy serves periodically in ships of the Royal Navy, to acquire experience in capital ships, cruisers, etc., and training courses are arranged for selected officers at the instructional schools of the Royal Navy to qualify in war staff, gunnery, torpedo, wireless and other duties. Courses for selected men in the gunnery, torpedo, wireless telegraphy and mechanical training schools of the Royal Navy are similarly arranged.

The ships of the Royal Canadian Navy are:—

H.M.C.S. *Saguenay* (destroyer—in commission).  
H.M.C.S. *Skeena* (destroyer—in commission).  
H.M.C.S. *Champlain* (destroyer—in commission).  
H.M.C.S. *Vancouver* (destroyer—in commission).  
H.M.C.S. *Armentières* (minesweeper—in commission).  
H.M.C.S. *Festubert* (minesweeper—in reserve).  
H.M.C.S. *Ypres* (minesweeper—in reserve).

Naval training establishments, comprising: naval barracks; gunnery drill sheds, with all modern appliances for teaching gun-laying, sight-setting, etc.; torpedo and electrical schools; parade grounds; and other equipment are maintained at Halifax and Esquimalt. Naval dockyards, with work shops, etc., for refitting and supplying necessary stores to H.M.C. ships, are also maintained at Halifax and Esquimalt.

**Royal Canadian Naval Reserve.**—The establishment of the Royal Canadian Naval Reserve is 70 officers and 430 men recruited from among sea-faring personnel. Officers have been appointed to act as registrars at Halifax, Charlottetown, Quebec, Montreal, Vancouver.

Officers and men of the Royal Canadian Naval Reserve attend naval training at Halifax and Esquimalt for 42 days for the first year of enrolment and for 14 days annually or biennially thereafter. They are permitted to volunteer for service afloat up to a maximum of six months during each period of enrolment. The period of enrolment in the Royal Canadian Naval Reserve is five years.

**Royal Canadian Naval Volunteer Reserve.**—The establishment of the Royal Canadian Naval Volunteer Reserve is 70 officers and 930 men, distributed as follows: Halifax (half company); Saint John (half company); Charlottetown (half company); Quebec (half company); Montreal (company); Ottawa (half company); Toronto (company); Hamilton (half company); Winnipeg (company); Saskatoon (half company); Regina (half company); Edmonton (half company); Calgary (half company); Vancouver (half company); Prince Rupert (half company).

Each company or half company is under the immediate command of an officer of the R.C.N.V.R., appointed as company commanding officer. The company commanding officer is assisted by other commissioned officers of the Force.

A petty officer instructor (a highly qualified ex-petty officer of the Royal Navy or of the Royal Canadian Navy) is employed at each company headquarters to give instruction to men of the company in gunnery, torpedo practice, seamanship and other naval subjects.

Each officer and man of the R.C.N.V.R. performs annually a minimum of 30 drills, of a duration of not less than one hour each, at company headquarters. In actual practice 40 to 50 drills have been performed annually by each member of the



company. Officers and men also attend from two to three weeks naval training annually at the naval bases at Halifax or Esquimalt, or at sea in H.M.C. or H.M. ships.

Officers and men who can obtain the necessary leave of absence are permitted to perform a maximum of four months voluntary service during each period of enrolment, and a large number have availed themselves of this opportunity of gaining extended naval experience under sea-going conditions. The period of enrolment and of re-enrolment in the R.C.N.V.R. is three years.

### Subsection 2.—Military Forces.

The Militia of Canada is constituted by the Militia Act. The Active Militia is divided into the Permanent and the Non-Permanent Militia.

**Permanent Militia.**—The Permanent Force consists of the following units:—

Cavalry.—The Royal Canadian Dragoons; Lord Strathcona's Horse (Royal Canadians).  
 Artillery.—The Royal Canadian Horse Artillery Brigade ("A", "B" and "C" Batteries); Royal Canadian Artillery (Nos. 1, 2 and 5 Heavy Batteries and No. 3 Medium Battery).  
 Engineers.—Royal Canadian Engineers (13 detachments and 1 field company).  
 Signals.—The Royal Canadian Corps of Signals.  
 Infantry.—The Royal Canadian Regiment; Princess Patricia's Canadian Light Infantry; The Royal 22e Regiment (a French-Canadian regiment).  
 Army Service Corps.—The Royal Canadian Army Service Corps (12 detachments).  
 Medical Corps.—The Royal Canadian Army Medical Corps (12 detachments).  
 Veterinary Corps.—The Royal Canadian Army Veterinary Corps (8 detachments).  
 Ordnance Corps.—The Royal Canadian Ordnance Corps (12 detachments).  
 Pay Corps.—The Royal Canadian Army Pay Corps (12 detachments).  
 Military Clerks.—The Corps of Military Staff Clerks (12 detachments).

The strength of the Permanent Active Militia is limited by the Amending Act of 1919 to 10,000, but at present the limited establishment is less than 3,800.

*Schools of Instruction.*—The Canadian Small Arms School is the only school which is an independent unit of the Permanent Force, but at all stations of the Permanent Force in Canada Royal Schools of Instruction are conducted.

**Non-Permanent Militia.**—The Non-Permanent Militia consists of:—

35 Regiments of Cavalry and Mounted Rifles.  
 70 Field Batteries, Canadian Artillery.  
 16 Medium Batteries, Canadian Artillery.  
 11 Heavy Batteries, Canadian Artillery.  
 3 Anti-Aircraft Sections, Canadian Artillery.  
 15 Field Companies of Engineers.  
 2 Fortress Companies of Engineers.  
 7 Field Troops of Engineers.  
 10 Divisional Signals.  
 2 Fortress Signal Companies.  
 7 Signal Troops.  
 22 Contingents, Canadian Officers' Training Corps.  
 123 Battalions of Infantry.  
 15 Machine Gun Units.  
 12 Divisional Canadian Army Service Corps.  
 51 Units of the Canadian Army Medical Corps.  
 11 Detachments of the Canadian Dental Corps.  
 11 Detachments of the Canadian Army Veterinary Corps.  
 11 Detachments of the Canadian Ordnance Corps.  
 12 Detachments and 1 Base Post Office of the Canadian Postal Corps.

The total establishment of the Non-Permanent Militia is 9,057 officers and 126,127 other ranks, a total of 135,184, distributed as shown in the following table:—

**2.—Permanent and Non-Permanent Active Militia in Canada, 1934.**

| Arm of Service.                                 | Permanent Active Militia. |            | Non-Permanent Active Militia. |               |
|-------------------------------------------------|---------------------------|------------|-------------------------------|---------------|
|                                                 | Personnel.                | Horses.    | Personnel.                    | Horses.       |
| Staff and General List.....                     | 53                        | —          | —                             | —             |
| Cavalry and Mounted Rifles.....                 | 415                       | 266        | 16,637                        | 9,809         |
| Field Artillery.....                            | 409                       | 144        | 9,165                         | 4,586         |
| Medium Artillery.....                           | 53                        | —          | 2,232                         | 848           |
| Heavy Artillery and Anti-Aircraft Sections..... | 227                       | 2          | 1,532                         | 45            |
| Engineers.....                                  | 273                       | 11         | 3,421                         | 812           |
| Signals.....                                    | 276                       | —          | 4,567                         | 2,220         |
| Railway Corps.....                              | —                         | —          | 363                           | —             |
| Infantry.....                                   | 906                       | 28         | 79,866                        | 87            |
| Officers' Training Corps.....                   | —                         | —          | 4,422                         | —             |
| Machine Gun Corps.....                          | —                         | —          | 6,516                         | 744           |
| Army Service Corps.....                         | 274                       | 38         | 1,286                         | —             |
| Non-Combatants.....                             | 874                       | —          | 5,177                         | 688           |
| <b>Totals.....</b>                              | <b>3,760</b>              | <b>489</b> | <b>135,184</b>                | <b>19,839</b> |

**Reserve Militia.**—In addition to the Active Militia, there is also the Reserve Militia, a framework designed to serve as a basis for contingent military organization. Drill and training are voluntary and entail no expense to the public.

The reserve formations of the Active Militia, as distinguished from the Reserve Militia mentioned above, comprise:—

The Reserve of Officers (general list).

Reserve unit for each active unit.

Reserve Regimental Depots (Cavalry and Infantry).

The reserve units of the Active Militia are intended for the purpose of providing for the organization of the officers and men who have completed their service in the Active Militia or who have otherwise received a military training. On completion of service in the Active Militia men are not posted automatically to reserve units. These units are recruited by specific enlistment.

**Military Districts.**—For the command, training and administration of the Canadian Militia, Canada is divided into 11 military districts, each under a commander assisted by a district staff.

**Militia Appropriations.**—The Militia appropriations for the six fiscal years ended Mar. 31, 1931-36, are shown in Table 3.

**3.—Money Voted by Parliament for the Militia, fiscal years ended Mar. 31, 1931-36.**

| Item.                               | 1931.             | 1932.                | 1933.            | 1934.            | 1935.            | 1936.            |
|-------------------------------------|-------------------|----------------------|------------------|------------------|------------------|------------------|
|                                     | \$                | \$                   | \$               | \$               | \$               | \$               |
| Administration.....                 | 345,000           | 332,000              | 320,000          | 321,000          | 318,000          | 359,000          |
| Cadet Services.....                 | 500,000           | 400,000              | 360,000          | 300,000          | 150,000          | 150,000          |
| Contingencies.....                  | 44,000            | 44,000               | 35,000           | 35,000           | 31,500           | 31,500           |
| Engineer Service and Works.....     | 830,000           | 736,000              | 327,500          | 297,500          | 297,500          | 297,500          |
| General Stores.....                 | 1,000,300         | 683,000              | 663,500          | 667,800          | 837,800          | 837,800          |
| Manufacturing Establishments.....   | 587,000           | 550,000              | ?                | ?                | ?                | ?                |
| Non-Permanent Active Militia.....   | 2,324,500         | 2,006,000            | 1,887,400        | 1,994,000        | 1,994,000        | 2,000,000        |
| Permanent Force.....                | 5,011,000         | 5,050,000            | 4,844,000        | 4,910,034        | 4,910,034        | 4,964,700        |
| Royal Military College.....         | 375,000           | 386,000              | 360,500          | 358,150          | 344,030          | 359,500          |
| Topographic Survey.....             | 45,000            | 45,000               | 20,000           | ?                | ?                | ?                |
| <b>Totals.....</b>                  | <b>11,061,800</b> | <b>10,232,000</b>    | <b>8,817,900</b> | <b>8,883,484</b> | <b>8,882,864</b> | <b>9,000,000</b> |
| Civil Government <sup>1</sup> ..... | 849,860           | 825,545 <sup>2</sup> | 727,035          | 476,378          | 451,738          | 448,640          |
| <b>Grand Totals.....</b>            | <b>11,911,660</b> | <b>11,057,545</b>    | <b>9,544,935</b> | <b>9,359,862</b> | <b>9,334,602</b> | <b>9,448,640</b> |

<sup>1</sup>Department of National Defence. <sup>2</sup>Discontinued as a separate vote. <sup>3</sup>Revised since the publication of the 1933 Year Book.

### Subsection 3.—Air Service.

Under the Act creating the Department of National Defence, the powers, duties and functions vested in the Air Board by the Air Board Act of 1919 are now administered under the direction of the Minister of National Defence.

The Royal Canadian Air Force is composed of the Permanent Active Air Force, the Non-Permanent Active Air Force, and a Reserve of Officers. The Royal Canadian Air Force administers and controls all military air operations and air operations for civil government departments. The duties of the Royal Canadian Air Force are as follows:—

- (a) To organize, train and maintain an air force for the defence of Canada.
- (b) To assist in the development of civil aviation by—
  - (i) Providing advanced flying training to civilian pilots, instructors and commercial pilots.
  - (ii) Initial development of air routes.
  - (iii) Technical supervision of airworthiness and inspection of aircraft belonging to private and commercial operators, and aircraft constructed or overhauled by aircraft manufacturing firms, and acting as consultant in matters pertaining to civil aviation generally.
- (c) The conduct of flying required to assist the several departments of the Dominion Government in the development and conservation of the country's natural resources, and other related services.

Permanent Active Air Force stations and units are located as follows:—

| Location.                                   | Duty.                                                           |
|---------------------------------------------|-----------------------------------------------------------------|
| R.C.A.F. Headquarters, Ottawa, Ont.         |                                                                 |
| R.C.A.F. Station, Camp Borden, Ont.....     | Training.                                                       |
| R.C.A.F. Station, Trenton, Ont.....         | Training.                                                       |
| R.C.A.F. Station, Ottawa, Ont.....          | Test and experimental work and civil government air operations. |
| R.C.A.F. Station, Winnipeg, Man.....        | Civil government air operations.                                |
| R.C.A.F. Station, Vancouver, B.C.....       | Coast reconnaissance and civil government air operations.       |
| R.C.A.F. Station, Dartmouth, N.S.....       | Coast reconnaissance and civil government air operations.       |
| R.C.A.F. Station, High River, Alta.....     | Care and maintenance basis.                                     |
| No. 1 R.C.A.F. Depot, Ottawa, Ont.....      | Stores and repair depot.                                        |
| R.C.A.F. Photographic Section, Ottawa, Ont. |                                                                 |

Non-Permanent Active Air Force units are located as follows:—

- No. 10 Army Co-Operation Squadron, Toronto, Ont.
- No. 11 Army Co-Operation Squadron, Vancouver, B.C.
- No. 12 Army Co-Operation Squadron, Winnipeg, Man.
- No. 15 Fighter Squadron, Montreal, Que. (in process of organization).
- No. 18 Bomber Squadron, Montreal, Que. (in process of organization).

The strength of the Royal Canadian Air Force on Dec. 31, 1934, was:—

|                                     | Officers. | Airmen. |
|-------------------------------------|-----------|---------|
| Permanent Active Air Force.....     | 117       | 664     |
| Non-Permanent Active Air Force..... | 38        | 236     |

### Subsection 4.—Civil Aviation.\*

The Civil Aviation Branch is under the Controllor of Civil Aviation, who is directly responsible to the Deputy Minister. Its duties include the inspection of licences and registration of aircraft, air harbours, commercial and private air pilots, air engineers and air navigators. In addition to these duties, the location and construction of air routes and any matters connected with airship services are administered in this branch.

Civil aviation in the Dominion has had its chief development in connection with the exploration and conservation of the natural resources of the provinces, including forestry protection, air photography, and transport of men and supplies to remote points and mining districts. At the beginning of 1934, 17 regular air-mail routes were in operation. On Dec. 31, 1934, there were twenty air-mail routes in operation.

\*See also pp. 744-746.

On Dec. 31, 1934, there were certificates and licences in force as follows: private air pilots, 427; commercial air pilots, 405; air engineers, 461; registration of aircraft, 368; air-harbour licences, 101.

Rapid progress is being made in the development of the Trans-Canada Airway. The sections between Lethbridge and Edmonton and Lethbridge and Winnipeg are completed, including equipment for night lighting on the 27 intermediate aerodromes and radio. Four other intermediate aerodromes have been completed. Forty-three sites are under development under the unemployment relief scheme; landings have been made on nine of these. Sixteen further sites have been optioned or acquired, 5 others selected and 13 remain to be located.

### Subsection 5.—The Royal Military College.

The Royal Military College of Canada was founded in 1876 by the Honourable Alexander Mackenzie, then Prime Minister of Canada. Since its foundation, 2,430 gentleman cadets have been enrolled, and of this number 198 are now in attendance.

The maximum number of cadets who may be in residence at any one time is restricted by Order in Council to two hundred.

The Royal Military College has a very distinguished record in connection with the War. Of the 914 graduates and ex-cadets who served, 353 were granted commissions direct from the College, and 43 enlisted with a view to obtaining commissions; 156 ex-cadets were reported as killed in action, died of wounds, or missing. Ex-cadets of the College won the following honours and decorations: 1 Victoria Cross and 3 recommendations for the Victoria Cross, 106 Distinguished Service Orders, 109 Military Crosses, 2 Distinguished Flying Crosses, 62 other British decorations, 42 foreign decorations. Three Canadian and one Australian divisions were commanded by graduates of the College.

Ex-cadets who have served in the army, either in the regular forces or during the Great War, include 1 general, 5 lieutenant-generals, 17 major-generals, and 29 brigadier-generals or brigadiers. Eleven knighthoods have been conferred on ex-cadets for distinguished service.

The establishment of the College, as stated in the Act of 1874 (37 Vict., c. 36) was "for the purpose of imparting a complete education in all branches of military tactics, fortifications, engineering and general scientific knowledge in the subjects connected with and necessary to a thorough knowledge of the military profession, and for qualifying officers for command and staff appointments". In addition to the foregoing, the course of instruction is such as to afford a thorough practical and scientific training in civil engineering, surveying, physics and chemistry, English and French. Strict discipline, combined with physical training, riding, drill and outdoor games, forms part of the curriculum.

The College is situated on a beautiful peninsula, one mile from Kingston, with the Cataraqui river emptying into the St. Lawrence river at its junction with lake Ontario on the one side, and Navy bay on the other. The grounds cover about 500 acres. The buildings of the College proper are situated on the above-mentioned peninsula, comprising 60 acres. The remainder of the grounds, on which stands the historic Fort Henry, is at the disposal of the College for use as a training area. On the point of the College peninsula is situated Fort Frederick, built in 1837 when Kingston became the capital of Canada, the fort comprising a portion of the defences of Kingston. The College is under the supervision of the



Department of National Defence, and is inspected annually by an advisory board composed of leading Canadian citizens, both civil and military, which makes its reports and recommendations to the Minister of National Defence. The staff is composed of a commandant, a staff-adjutant, and a competent staff of civil and military professors and instructors.

A four-year course leads to a "diploma with honours", a "diploma" or a "certificate of military qualification". A number of commissions in the Canadian Permanent Force and the Royal Canadian Air Force, as well as commissions in the British Regular Forces, the Indian Army, and the Royal Air Force, are offered annually to graduates; and for cadets who desire to obtain commissions in the Royal Canadian Navy a limited number of naval cadetships are available each year to cadets who successfully complete the first two years of study and who were under 18 years of age at the time of entry into the College. To those graduates joining the British Army, the privilege of one year of seniority is granted in the British or Indian Armies. This has been arranged in order to equalize the seniority of graduates of the Royal Military College of Canada with those of the Royal Military Academy, Woolwich, or the Royal Military College, Sandhurst, since the courses at the latter institutions are shorter than the Canadian.

The principal Canadian universities admit recommended graduates to the fourth year of their civil engineering courses and to the third year of other engineering courses; and some of the universities admit graduates to the third years of arts and science courses.

The R.M.C. diploma is accepted by the Law Societies and Bar Associations of Ontario, Nova Scotia, Quebec, Manitoba, Saskatchewan, British Columbia and Alberta, as the equivalent of a B.A. degree for admission to the study of law. The Dominion Association of Chartered Accountants likewise accepts R.M.C. graduates as registered students under the same conditions as university graduates.

Entrance to the College is on a competitive basis. Candidates are required to pass a rigid medical examination, and to have obtained junior matriculation or an acceptable equivalent. Applications for admission to the College should reach The Secretary, Department of National Defence, Ottawa, before May 31 of each year.

### Section 3.—Department of Public Works.\*

Since Confederation and before, the constructing department of the Dominion Government has been known as the Department of Public Works. In 1879 the railways and canals were placed under the control of a new department, the building and maintenance of penitentiaries were transferred to the Department of Justice, the maintenance and construction of lighthouses to the Marine and Fisheries Department, and the smaller drill halls and armouries to the Department of National Defence. The work of the Department of Public Works is now divided into three principal branches, *viz.*, the Engineering Branch, the Architect's Branch and the Telegraph Branch.

**Engineering.**—The Engineering Branch conducts the construction and repair of wharves, piers, breakwaters, dams, weirs, bank and beach protection works; the improvement of harbours and rivers by dredging; the construction, operation and maintenance of dredging plant and the construction, operation and maintenance of

\*Revised by J. M. Somerville, Assistant Secretary, Department of Public Works.

graving or dry docks. The construction and maintenance of interprovincial bridges and approaches thereto, also the construction, operation and maintenance of bridges with movable spans on certain highways; hydrographic and topographic surveys and examinations which are required for the preparation of plans, reports and estimates; test borings for the purpose of ascertaining nature of foundations; the testing of cements and materials of construction; the licensing of international and interprovincial ferries, and the control of works constructed in or over navigable waters by authority of the Navigable Waters Protection Act (R.S.C., 1927, c. 140).

**Architecture.**—The Architect's Branch constructs and maintains Government buildings, post offices, customs houses, examining warehouses, quarantine stations, immigration and experimental farm buildings, military hospitals and telegraph offices. It also constructs armouries and drill halls and leases office accommodation as required for the various departments.

**Telegraphs.**—The Telegraph Branch has control of the construction, operation and maintenance of all Government-owned telegraph lines and cables. These lines are located in the provinces of Nova Scotia, New Brunswick, Quebec, Ontario, Saskatchewan, Alberta, British Columbia and Yukon (see also pp. 778-779).

**Graving Docks.**—The Department constructed five dry docks, as are shown in Table 4. The dock at Kingston, Ont., is under lease to the Kingston Shipbuilding Company, while the old Esquimalt Dry Dock was temporarily transferred to the Department of National Defence on Nov. 1, 1934. This transfer is to be effective until such time as the dock is commercially required, when it will be returned to the control of the Department of Public Works. The large dry docks at Lauzon, Que., and Esquimalt, B.C., can be divided into two parts and were built at a cost of approximately \$3,850,000 each. Under the Dry Dock Subsidies Act, 1910 (9-10 Edw. VII, c. 17), several docks have been subsidized by payments of 3 to 4 p.c. per annum on the original cost for a given number of years, as shown in Table 5.

#### 4.—Dimensions of Graving Docks Owned by the Dominion Government.

| Location.                       | Length. | Width at— |         |           | Depth of Water on Sill. | Rise of Tide. |        |
|---------------------------------|---------|-----------|---------|-----------|-------------------------|---------------|--------|
|                                 |         | Coping.   | Bottom. | Entrance. |                         | Spring.       | Neap.  |
|                                 | ft.     | ft.       | ft.     | ft.       | ft.                     | ft.           | ft.    |
| Lauzon, Que. "Champlain".....   | 1,150   | 144       | 105     | 120       | 40-0 H.W.               | 18            | 13-3   |
| Lauzon, Que. "Lorne".....       | 600-3   | 100       | 59-5    | 62        | 25-8 H.W.               | 18            | 13-3   |
| Esquimalt, B.C. (old dock)..... | 450-7   | 90        | 41      | 65        | 29-0 H.W.               | 7 to 10       | 3 to 8 |
| Esquimalt, B.C.....             | 1,173   | 149       | 126     | 135       | 40-0 H.W.               | 7 to 10       | 3 to 8 |
| Kingston, Ont.....              | 353-5   | 79        | 47      | 55        | 16-0                    | —             | —      |

#### 5.—Dimensions and Cost of Graving Docks Subsidized under the Dry Dock Subsidies Act, 1910.

| Location.                                                     | Length. | Width. | Depth over Sill. | Total Cost. | Subsidy.              |
|---------------------------------------------------------------|---------|--------|------------------|-------------|-----------------------|
|                                                               | ft.     | ft.    | ft.              | \$          |                       |
| Collingwood No. 1, Ont.....                                   | 515-8   | 59-8   | 14-8             | 500,000     | 3 p.c. for 20 years.  |
| Collingwood No. 2, Ont.....                                   | 413-2   | 95     | 19-2             | 306,965     | 3 p.c. for 20 years.  |
| Port Arthur, Ont.....                                         | 708-3   | 77-6   | 16-2             | 1,258,050   | 3 p.c. for 20 years.  |
| Montreal, Que., floating dock, <i>Duke of Connaught</i> ..... | 601     | 100    | 31-5             | 3,000,000   | 3½ p.c. for 35 years. |
| Prince Rupert, B.C. (floating dock).....                      | 600     | 100    | 32               | 2,199,168   | 3½ p.c. for 35 years. |
| Saint John, N.B.....                                          | 1,164-5 | 133    | 40               | 5,500,000   | 4½ p.c. for 35 years. |
| North Vancouver, B.C. (floating dock).....                    | 556-5   | 98     | 28               | 2,500,000   | 4½ p.c. for 35 years. |

**Expenditure and Revenue.**—Table 6 shows the expenditures and revenues of the Public Works Department of the Dominion Government, for the fiscal years 1929-34. For the fiscal year 1934 the expenditure was \$10,618,233, as compared with \$13,473,149 in 1933—a decrease of \$2,854,916, largely accounted for by reduced expenditures for harbours and rivers, dredging and public buildings.

**6.—Expenditures and Revenues of the Public Works Department, fiscal years ended Mar. 31, 1929-34.**

EXPENDITURES (exclusive of Civil Government Appropriations).

| Item.                     | 1929.             | 1930.             | 1931.             | 1932.             | 1933.             | 1934.             |
|---------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                           | \$                | \$                | \$                | \$                | \$                | \$                |
| Harbour and river works.. | 5,230,360         | 7,980,558         | 11,785,509        | 5,000,984         | 3,044,495         | 2,408,303         |
| Dredging plant, etc.....  | 3,106,638         | 3,310,953         | 4,305,126         | 2,520,843         | 1,510,174         | 1,172,582         |
| Roads and bridges.....    | 38,896            | 84,495            | 190,383           | 342,330           | 138,598           | 53,776            |
| Airports.....             | 540,076           | 780,144           | 93,214            | —                 | —                 | —                 |
| Public buildings.....     | 9,902,676         | 12,304,578        | 15,792,574        | 11,264,114        | 7,980,561         | 6,371,217         |
| Telegraphs.....           | 893,888           | 885,871           | 928,975           | 644,627           | 529,852           | 497,037           |
| Miscellaneous.....        | 236,042           | 260,924           | 275,832           | 235,177           | 131,099           | 115,318           |
| Unemployment relief works | —                 | —                 | —                 | 1,592,934         | 138,370           | —                 |
| <b>Totals.....</b>        | <b>19,948,576</b> | <b>25,607,523</b> | <b>33,371,613</b> | <b>21,601,009</b> | <b>13,473,149</b> | <b>10,618,233</b> |

REVENUES.

|                     | 1929.          | 1930.          | 1931.          | 1932.          | 1933.          | 1934.          |
|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Graving docks.....  | 102,065        | 121,909        | 117,759        | 78,167         | 64,732         | 66,809         |
| Rents.....          | 97,114         | 116,697        | 103,353        | 179,958        | 103,070        | 88,304         |
| Telegraphs.....     | 356,485        | 356,469        | 242,441        | 188,248        | 170,984        | 162,562        |
| Casual revenue..... | 83,311         | 67,130         | 93,304         | 464,479        | 37,031         | 27,287         |
| Ferries.....        | 1,358          | 1,318          | 2,823          | 2,869          | 2,740          | 2,723          |
| <b>Totals.....</b>  | <b>640,333</b> | <b>663,523</b> | <b>559,680</b> | <b>913,722</b> | <b>378,557</b> | <b>347,635</b> |

## Section 4.—The Indians and Eskimos of Canada.

### Subsection 1.—The Indians of Canada.\*

The Indians of Canada whose affairs are administered by the Department of Indian Affairs number about 112,510, their numbers varying slightly from year to year. A small yearly increase is evident, and the popular notion that the race is disappearing is not in accordance with facts. Before they were subjected to the degenerating effects of European civilization and the devastating results of the many colonial wars, the numbers of the Indians were undoubtedly larger, but any reliable information as to the aboriginal population during either the French or the early British *régime* is non-existent, and there is no adequate basis for a comparison between the past and present aboriginal populations. An interesting sketch of the progress of the Indians of Canada since Confederation will be found in the Report of the Department of Indian Affairs, 1927.

**Administration.**†—Reserves have been set aside for the various bands of Indians throughout the Dominion, and the Indians located thereon are under the supervision of the local agents of the Department. The activities of the Department, as guardian of the Indians, include the control of Indian education, health, etc., the development of agriculture and other pursuits among them, the administration of their lands, community funds, estates, and the general supervision of their welfare.

\*Revised by A. F. MacKenzie, Secretary, Department of Indian Affairs.

†For an outline of the early administration, see p. 937 of the 1932 Year Book.



The local administration of the Indian bands on the reserves scattered throughout the Dominion is conducted through the Department's agencies, of which there are in all 120. The number of bands included in an agency varies from one to more than 30. The staff of an agency usually includes various officers in addition to the agent, such as medical officer, clerk, farm instructor, field matron, constable, stockman, etc., according to the special requirements of the agency in question. The work of the agencies is supervised by the Department's inspectors, each inspector having charge of a certain number of agencies. Expenditures upon destitute Indians are made by the Dominion Government, either from public funds or from the tribal funds of the Indians themselves.

The Indian Act provides for the enfranchisement of Indians. When an Indian is enfranchised he ceases to be an Indian under the law and acquires the full status of citizenship. In the older provinces, where the Indians have been longer in contact with civilization, many are becoming enfranchised. Great discretion, however, is exercised by the Government in dealing with this problem, as Indians who become enfranchised lose the special protection attached to their wardship, so that it is necessary to guard against premature enfranchisement.

**Treaties.**—In the older eastern provinces, the history of the Indians has been one of slow development with that of the community. In western Ontario, the Prairie Provinces and the Territories the situation has been different. There, the rapid spread of civilization made it necessary to take prompt and effective measures to protect the moral claims of the Indians, which are recognized by the Government. Accordingly, treaties were entered into with the Indians, whereby the latter ceded to the Crown their aboriginal title and interest in the country. In consideration of such cession the Crown agreed to set aside adequate reserves, make cash grants, provide per capita annuities, give assistance in agriculture, stock raising, hunting, trapping, etc., as particular circumstances might require, provide education for the Indian children, and otherwise safeguard the Indians' interests. These treaties have been made from time to time as occasion arose and as new territories were opened up. No treaty has been made with the Indians of British Columbia, but their welfare has received no less attention from the Government on that account.

**Government Expenditure.**—On Mar. 31, 1934, the capital of the Indian Trust Fund, which a year earlier had amounted to \$13,580,007, had increased to \$13,602,565. The amounts expended from the Consolidated Revenue Fund were as follows: voted by Parliament for the purposes of the Department, \$4,146,887; annuities by statute, \$233,135.

**Statistics.**—Statistical tables of population, school attendance, income and agricultural activities of the Indians in Canada follow. In Table 7 the populations for 1871-1931 are compiled from reports of the various censuses since Confederation, while the statistics and other information in the remaining tables are taken from the latest Annual Report of the Department of Indian Affairs. The Department of Indian Affairs takes a quinquennial census of Indians under its control, whereas census figures include all persons of Indian origin. The quinquennial census taken by the Department in 1934 showed a total of 112,510 as compared with 108,012 in 1929 and 104,894 in 1924, an increase of 7.3 p.c. in ten years. The details of the census of 1934 are given in the Annual Report of the Department for that year. The figures of the decennial census include some thousands of persons of Indian race who are living off the reserves as ordinary citizens of Canada.



## 7.—Indian Population of Canada at the Decennial Censuses of 1871-1931.

| Province or Territory.     | 1871. <sup>1</sup> | 1881. <sup>1</sup> | 1891. <sup>2</sup> | 1901.                      | 1911.          | 1921.              | 1931.          |
|----------------------------|--------------------|--------------------|--------------------|----------------------------|----------------|--------------------|----------------|
| Prince Edward Island.....  | 323                | 281                | 314                | 258                        | 248            | 235                | 233            |
| Nova Scotia.....           | 1,666              | 2,125              | 2,076              | 1,629                      | 1,915          | 2,048              | 2,191          |
| New Brunswick.....         | 1,403              | 1,401              | 1,521              | 1,465                      | 1,541          | 1,331              | 1,685          |
| Quebec.....                | 6,988              | 7,515              | 13,361             | 10,142                     | 9,993          | 11,566             | 12,312         |
| Ontario.....               | 12,978             | 15,325             | 17,915             | 24,674                     | 23,044         | 26,436             | 30,368         |
| British Columbia.....      | 23,000             | 25,661             | 34,202             | 28,949                     | 20,134         | 22,377             | 24,599         |
| Manitoba.....              |                    |                    |                    | 16,277                     | 7,876          | 13,869             | 15,417         |
| Saskatchewan.....          |                    |                    |                    | 26,304                     | 11,718         | 12,914             | 15,268         |
| Alberta.....               | 56,000             | 56,239             | 51,249             | 3,322                      | 11,630         | 14,557             | 15,258         |
| Yukon.....                 |                    |                    |                    | 14,921                     | 1,489          | 1,390              | 1,543          |
| Northwest Territories..... |                    |                    |                    |                            | 15,904         | 3,873 <sup>4</sup> | 4,046          |
| <b>Totals.....</b>         | <b>102,358</b>     | <b>108,547</b>     | <b>120,638</b>     | <b>127,941<sup>3</sup></b> | <b>105,492</b> | <b>110,596</b>     | <b>122,920</b> |

<sup>1</sup>Census figures in the organized provinces and estimates for the rest of Canada.<sup>2</sup>Racial origin not taken in 1891; the figures have been taken from the report of the Department of Indian Affairs of that year.<sup>3</sup>Includes 34,481 "half-breeds".<sup>4</sup>The smaller Indian population of the Northwest Territories in 1921 is to be ascribed to the extension of the boundaries of Quebec, Ontario and Manitoba in 1912. This also accounts for the increase in the 1921 Indian population of these provinces.

**Indian Education.**—The educational work of the Department is now very extensive. In the fiscal year ended Mar. 31, 1934, a total of 345 Indian schools were in operation, including 79 residential schools for Indians with an enrolment of 8,596, and 256 day schools for Indians with an enrolment of 8,653 Indian pupils, also 10 combined public and Indian schools, with 199 Indian pupils enrolled. The total enrolment in the Indian schools has increased from 12,799 in 1915-16 to 17,448 in 1933-34 and the average attendance from 8,080 to 13,352 or from 63.1 p.c. to 76.5 p.c. of the enrolment. Continuation and high school work is now being taught in several of the day and residential schools. The amount spent on Indian education in the fiscal year ended Mar. 31, 1934, was \$1,620,130.

## 8.—Enrolment and Average Attendance of Pupils at Indian Schools, fiscal years ended Mar. 31, 1916-34.

| Fiscal Year. | Residential Schools. |                     | Day Schools. |                     | All Schools. |                     |                                   |
|--------------|----------------------|---------------------|--------------|---------------------|--------------|---------------------|-----------------------------------|
|              | Enrolment.           | Average Attendance. | Enrolment.   | Average Attendance. | Enrolment.   | Average Attendance. | Percentage of Average Attendance. |
| 1916.....    | 4,661                | 4,029               | 8,138        | 4,051               | 12,799.      | 8,080               | 63.1                              |
| 1917.....    | 4,520                | 4,149               | 7,658        | 4,136               | 12,178       | 8,285               | 68.0                              |
| 1918.....    | 4,692                | 4,081               | 7,721        | 3,797               | 12,413       | 7,878               | 63.5                              |
| 1919.....    | 4,640                | 4,014               | 7,312        | 3,587               | 11,952       | 7,601               | 63.6                              |
| 1920.....    | 4,719                | 4,133               | 7,477        | 3,516               | 12,196       | 7,649               | 62.7                              |
| 1921.....    | 4,783                | 4,143               | 7,775        | 3,931               | 12,558       | 8,074               | 64.3                              |
| 1922.....    | 5,031                | 4,360               | 7,990        | 4,308               | 13,021       | 8,668               | 66.6                              |
| 1923.....    | 5,347                | 4,695               | 8,376        | 4,411               | 13,723       | 9,106               | 66.4                              |
| 1924.....    | 5,673                | 4,856               | 8,199        | 4,332               | 13,872       | 9,188               | 66.2                              |
| 1925.....    | 6,031                | 5,278               | 8,191        | 4,601               | 14,222       | 9,879               | 69.5                              |
| 1926.....    | 6,327                | 5,658               | 8,455        | 4,940               | 14,782       | 10,598              | 71.7                              |
| 1927.....    | 6,641                | 5,881               | 8,059        | 4,660               | 14,710       | 10,541              | 71.7                              |
| 1928.....    | 6,795                | 6,043               | 8,223        | 4,823               | 15,018       | 10,866              | 72.4                              |
| 1929.....    | 7,075                | 6,282               | 8,272        | 4,976               | 15,347       | 11,258              | 73.4                              |
| 1930.....    | 7,302                | 6,476               | 8,441        | 5,103               | 15,743       | 11,579              | 73.6                              |
| 1931.....    | 7,831                | 6,917               | 8,584        | 5,314               | 16,415       | 12,231              | 74.5                              |
| 1932.....    | 8,213                | 7,400               | 8,950        | 5,707               | 17,163       | 13,107              | 76.4                              |
| 1933.....    | 8,465                | 7,613               | 8,960        | 5,874               | 17,425       | 13,487              | 77.4                              |
| 1934.....    | 8,596                | 7,760               | 8,852        | 5,592               | 17,448       | 13,352              | 76.5                              |

**Economic Data.**—Statistical information concerning the economic position of the Indians of Canada, including: acreage and value of Indian lands, by provinces; areas and yields of principal field crops of Indians, by provinces; numbers of farm live stock of Indians, with total value, by provinces; and sources and values of income of Indians, by provinces, will be found in Tables 9-12, which follow.

**9.—Acreage and Value of Indian Lands, by Provinces, Mar. 31, 1934.**

| Province.                 | Total<br>Area of<br>Reserves. | Area<br>under<br>Wood. | Lands<br>Cleared but<br>not under<br>Cultivation. | Lands<br>under<br>Cultivation. | Value<br>of<br>Lands. |
|---------------------------|-------------------------------|------------------------|---------------------------------------------------|--------------------------------|-----------------------|
|                           | acres.                        | acres.                 | acres.                                            | acres.                         | \$                    |
| Prince Edward Island..... | 1,668                         | 925                    | 425                                               | 318                            | 20,000                |
| Nova Scotia.....          | 19,779                        | 16,687                 | 2,214                                             | 879                            | 86,825                |
| New Brunswick.....        | 37,752                        | 36,238                 | 1,132                                             | 382                            | 75,448                |
| Quebec.....               | 193,683                       | 164,745                | 17,879                                            | 11,059                         | 1,422,626             |
| Ontario.....              | 1,017,224                     | 880,961                | 78,623                                            | 57,640                         | 4,796,936             |
| Manitoba.....             | 474,653                       | 336,868                | 123,383                                           | 14,402                         | 3,025,991             |
| Saskatchewan.....         | 1,501,379                     | 600,321                | 854,088                                           | 46,970                         | 13,955,722            |
| Alberta.....              | 1,281,030                     | 357,762                | 855,462                                           | 67,806                         | 17,726,324            |
| British Columbia.....     | 744,395                       | 441,510                | 267,946                                           | 34,939                         | 12,668,502            |
| Yukon and N.W.T.....      | 1,757                         | 1,667                  | 64                                                | 26                             | 1,600                 |
| <b>Totals.....</b>        | <b>5,273,320</b>              | <b>2,837,684</b>       | <b>2,201,216</b>                                  | <b>234,421</b>                 | <b>53,799,974</b>     |

**10.—Areas and Yields of Principal Field Crops of Indians, by Provinces, calendar year 1933.**

| Province.                 | Wheat.        |                | Oats.         |                | Other Grains. |                |
|---------------------------|---------------|----------------|---------------|----------------|---------------|----------------|
|                           | acres.        | bush.          | acres.        | bush.          | acres.        | bush.          |
| Prince Edward Island..... | 15            | 130            | 70            | 1,700          | -             | -              |
| Nova Scotia.....          | -             | -              | 32            | 693            | 4             | 31             |
| New Brunswick.....        | -             | -              | 112           | 1,357          | 22            | 222            |
| Quebec.....               | 145           | 1,544          | 1,813         | 30,315         | 362           | 8,518          |
| Ontario.....              | 1,505         | 20,720         | 11,154        | 227,558        | 2,872         | 63,303         |
| Manitoba.....             | 2,419         | 24,513         | 2,637         | 45,676         | 1,973         | 14,560         |
| Saskatchewan.....         | 15,503        | 212,846        | 11,734        | 240,892        | 1,552         | 14,849         |
| Alberta.....              | 19,085        | 128,976        | 10,860        | 137,397        | 612           | 13,066         |
| British Columbia.....     | 3,363         | 75,402         | 3,590         | 68,421         | 277           | 3,370          |
| Yukon and N.W.T.....      | -             | -              | -             | -              | -             | -              |
| <b>Totals.....</b>        | <b>42,035</b> | <b>464,131</b> | <b>42,002</b> | <b>754,009</b> | <b>7,674</b>  | <b>117,919</b> |

| Province.                 | Peas, Beans, etc. |               | Potatoes.    |                | Other Roots. |               | Fodder,<br>Hay<br>Culti-<br>vated,<br>Wild,<br>etc. |
|---------------------------|-------------------|---------------|--------------|----------------|--------------|---------------|-----------------------------------------------------|
|                           | acres.            | bush.         | acres.       | bush.          | acres.       | bush.         |                                                     |
| Prince Edward Island..... | -                 | -             | 22           | 890            | 1            | 200           | 90                                                  |
| Nova Scotia.....          | 13                | 173           | 97           | 4,396          | 25           | 2,124         | 405                                                 |
| New Brunswick.....        | 10                | 145           | 71           | 3,630          | 15           | 1,523         | 186                                                 |
| Quebec.....               | 120               | 984           | 730          | 12,810         | 64           | 2,021         | 4,256                                               |
| Ontario.....              | 803               | 12,479        | 2,038        | 63,621         | 569          | 21,013        | 26,046                                              |
| Manitoba.....             | 7                 | 65            | 575          | 39,028         | 80           | 1,678         | 22,313                                              |
| Saskatchewan.....         | -                 | -             | 455          | 32,349         | 340          | 2,965         | 41,276                                              |
| Alberta.....              | -                 | -             | 273          | 16,461         | 26           | 1,365         | 20,286                                              |
| British Columbia.....     | 514               | 10,816        | 1,952        | 177,070        | 541          | 34,520        | 26,655                                              |
| Yukon and N.W.T.....      | 1                 | 14            | 33           | 1,412          | 15           | 638           | 62                                                  |
| <b>Totals.....</b>        | <b>1,468</b>      | <b>24,676</b> | <b>6,246</b> | <b>351,667</b> | <b>1,676</b> | <b>68,047</b> | <b>141,575</b>                                      |

**11.—Numbers of Farm Live Stock of Indians, with Total Value, by Provinces, calendar year 1933.**

| Provinces.                | Horses.       | Cattle.       | Pigs,<br>Sheep,<br>etc. | Poultry.       | Value of<br>Live Stock<br>and Poultry |
|---------------------------|---------------|---------------|-------------------------|----------------|---------------------------------------|
|                           | No.           | No.           | No.                     | No.            | \$                                    |
| Prince Edward Island..... | 10            | 21            | 7                       | 150            | 1,200                                 |
| Nova Scotia.....          | 53            | 211           | 67                      | 856            | 12,513                                |
| New Brunswick.....        | 15            | 51            | 21                      | 403            | 5,810                                 |
| Quebec.....               | 615           | 2,440         | 770                     | 7,503          | 76,920                                |
| Ontario.....              | 3,588         | 7,355         | 5,321                   | 74,795         | 500,373                               |
| Manitoba.....             | 2,008         | 4,622         | 448                     | 8,195          | 260,556                               |
| Saskatchewan.....         | 5,916         | 8,493         | 472                     | 18,222         | 484,594                               |
| Alberta.....              | 12,618        | 10,610        | 463                     | 7,158          | 400,135                               |
| British Columbia.....     | 10,567        | 10,787        | 3,525                   | 24,501         | 773,363                               |
| Yukon and N.W.T.....      | 59            | 6             | —                       | 40             | 1,500                                 |
| <b>Totals.....</b>        | <b>35,459</b> | <b>44,596</b> | <b>11,094</b>           | <b>141,823</b> | <b>2,516,964</b>                      |

**12.—Sources and Values of Income of Indians, by Provinces, calendar year 1931.**

| Province.             | Value of—                              |                                      |                  | Re-<br>ceived<br>from<br>Land<br>Rentals. | Earned by—     |                             |                           | Total<br>Income<br>of<br>Indians. <sup>1</sup> |
|-----------------------|----------------------------------------|--------------------------------------|------------------|-------------------------------------------|----------------|-----------------------------|---------------------------|------------------------------------------------|
|                       | Farm<br>Products,<br>Including<br>Hay. | Beef<br>Sold or<br>Used for<br>Food. | Wages<br>Earned. |                                           | Fishing.       | Hunting<br>and<br>Trapping. | Other<br>Indus-<br>tries. |                                                |
|                       | \$                                     | \$                                   | \$               | \$                                        | \$             | \$                          | \$                        | \$                                             |
| P.E. Island.....      | 1,967                                  | 220                                  | —                | —                                         | 850            | —                           | 4,500                     | 7,537                                          |
| Nova Scotia.....      | 10,777                                 | 990                                  | 14,818           | 107                                       | 1,625          | 1,995                       | 12,875                    | 44,845                                         |
| New Brunswick.....    | 6,750                                  | —                                    | 13,050           | —                                         | 1,310          | 1,075                       | 3,390                     | 28,144                                         |
| Quebec.....           | 81,424                                 | 8,580                                | 122,945          | 9,441                                     | 4,535          | 73,865                      | 18,530                    | 340,062                                        |
| Ontario.....          | 312,912                                | 34,220                               | 367,003          | 15,431                                    | 216,785        | 373,710                     | 163,930                   | 1,876,759                                      |
| Manitoba.....         | 145,967                                | 16,202                               | 95,900           | 1,000                                     | 59,825         | 282,775                     | 44,371                    | 735,971                                        |
| Saskatchewan.....     | 267,717                                | 37,932                               | 49,191           | 5,152                                     | 155,595        | 235,164                     | 46,440                    | 943,527                                        |
| Alberta.....          | 167,291                                | 52,025                               | 35,202           | 48,071                                    | 7,561          | 93,806                      | 48,654                    | 661,418                                        |
| British Columbia..... | 319,048                                | 59,348                               | 269,023          | 26,161                                    | 282,705        | 113,965                     | 102,530                   | 1,235,359                                      |
| Yukon and N.W.T.....  | 9,844                                  | —                                    | 13,670           | —                                         | 46,090         | 204,865                     | 5,710                     | 299,924                                        |
| <b>Totals.....</b>    | <b>1,323,697</b>                       | <b>209,517</b>                       | <b>980,802</b>   | <b>105,363</b>                            | <b>776,881</b> | <b>1,380,720</b>            | <b>450,930</b>            | <b>6,173,546</b>                               |

<sup>1</sup> Includes income received from timber, mining and annuities earned as interest on Indian trust funds.

**Subsection 2.—The Eskimos of Canada.\***

The Eskimos are a littoral race, dwelling on the northern and northeastern mainland coasts and on islands in the Arctic archipelago and in Hudson bay. Though nomads, they never go far from the sea except to hunt caribou, the skin of which animal is required for clothing. They subsist largely on marine animals and fish. They inhabit chiefly the Northwest Territories, the Yukon Territory, and the Ungava district of Quebec. According to the Census of 1931 the total Eskimo population of Canada was 5,979, made up as follows: Northwest Territories 4,670, Yukon 85, Alberta 3, Manitoba 62, Quebec 1,159. The administrative care of those Eskimos outside of the organized provinces devolves upon the Department of the Interior, which has done much for them by providing medical attention, by setting aside wild-life preserves for the protection and conservation of game resources, by importation of reindeer, distribution of buffalo hides and meat and caribou skins for bedding and clothing, and the establishment of permanent stations in the eastern, central, and western Arctic, from which regular patrols are made.

\*Revised by J. Lorne Turner, Director, Lands, Northwest Territories and Yukon Branch, Department of the Interior, Ottawa.

## Section 5.—Pensions and other Provision for War Veterans.\*

**Pensions Division.**—This Division is responsible for the administration of returned soldiers' affairs under the Department of Pensions and National Health Act and the War Veterans' Allowance Act. It is also responsible by direction of the Canadian Pension Commission for certain administrative duties under the Pension Act and the Returned Soldiers' Insurance Act. The Representative of the Treasury is responsible for all payments under these Acts.

The Annual Report for the fiscal year ended Mar. 31, 1934, shows a decrease in the number of ex-members of the Forces who received in-patient hospital treatment, the number being 11,718 as against 13,343 in 1932-33 and 14,267 in 1931-32. The Department maintains eight hospitals, situated in the following centres: Halifax, Saint John, Ste. Anne de Bellevue, Toronto, London, Winnipeg, Calgary and Vancouver. The sheltered employment workshops are still operated at Hamilton, Montreal and Halifax and one shop by the Red Cross Society at Victoria.

One of the features of the activities of the Department is provision for the care of veterans in a departmental institution for pensioners who through age or infirmity are unable to care for themselves. The number of such cases shows an increase during the year, the total on Mar. 31, 1934, being 250 as against 213 a year previous and 198 on Mar. 31, 1932. The issue of orthopædic and surgical appliances has been maintained with a slight decrease. The number of pensioners, who have been granted relief was 12,735 in 1933-34 as compared with 14,368 in 1932-33, 12,303 in 1931-32 and 8,811 in 1930-31. The expenditure on relief in 1933-34 was \$1,912,563; in 1932-33, \$1,978,284; 1931-32, \$2,082,052; and 1930-31, \$907,010.

The provision under which the Department assumes responsibility in respect of accidents sustained by pensioners of 25 p.c. and upwards when engaged in industry has been continued. During the fiscal year under review, the number of claims was 180; in 1932-33, 179, and in 1931-32, 200. The expenditure was as follows: 1933-34, \$36,420; 1932-33, \$17,641; 1931-32, \$49,878. The expenditure is largely governed by the number of fatal and serious accidents.

The following is a summary statement of the manner in which the funds appropriated by Parliament have been dealt with and also sets forth the costs of administration and the adjudication of pensions. The cost of administration was 3-642 p.c.

### NET PAYMENTS BY DEPARTMENT OF PENSIONS AND NATIONAL HEALTH FOR THE FISCAL YEAR ENDING MAR. 31, 1934.

#### PENSIONS BRANCH.

| <i>Net Cash Payments—</i>                          | <i>\$</i>    |
|----------------------------------------------------|--------------|
| European War pensions.....                         | 41,839,831   |
| War Veterans' allowances.....                      | 1,650,314    |
| Unemployment relief.....                           | 1,912,563    |
| Industrial problem cases and vocational loans..... | 648          |
| Sheltered employment.....                          | 42,718       |
| Hospital allowances.....                           | 1,314,907    |
| Total Paid in Cash.....                            | \$46,760,981 |

\*Revised by E. H. Scammell, Secretary, Pensions Division, Department of Pensions and National Health. See also 1930 Year Book, pp. 982-983.



NET PAYMENTS BY DEPARTMENT OF PENSIONS AND NATIONAL HEALTH  
FOR THE FISCAL YEAR ENDING MAR. 31, 1934—concluded.

| PENSIONS BRANCH—concluded.                                                                                                                                                                           |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <i>Net Cost of Services—</i>                                                                                                                                                                         | \$           |
| Hospital treatment.....                                                                                                                                                                              | 2,613,442    |
| Employers' liability compensation.....                                                                                                                                                               | 36,420       |
| Last Post Fund.....                                                                                                                                                                                  | 40,000       |
| Canadian Legion.....                                                                                                                                                                                 | 9,000        |
| Transportation, pensioners, patients, etc.....                                                                                                                                                       | 113,741      |
| After-care of the blind and transportation of blinded ex-soldiers.....                                                                                                                               | 7,018        |
| Indirect Payments to and on behalf of Ex-Members of the Forces and their Dependants.....                                                                                                             | \$ 2,819,621 |
|                                                                                                                                                                                                      | \$49,580,602 |
| <i>Other Expenditures and Operations, including Payment of Militia (Statute) and other Pensions, Trust Funds under Administration, Recoverable Expenditures, Returned Soldiers' Insurance, etc.—</i> | \$           |
| Militia pensions (statute).....                                                                                                                                                                      | 1,064,183    |
| North West Rebellion, 1885 and general.....                                                                                                                                                          | 20,219       |
| Civil Flying.....                                                                                                                                                                                    | 276          |
| Interest on trust funds.....                                                                                                                                                                         | 2,069        |
| War service gratuities.....                                                                                                                                                                          | 1,667        |
| Returned Soldiers' Insurance.....                                                                                                                                                                    | 1,004,260    |
| Pensions under administration.....                                                                                                                                                                   | 665,767      |
| Capital expenditures.....                                                                                                                                                                            | 9,245        |
| Recoverable expenditures.....                                                                                                                                                                        | 110,396      |
|                                                                                                                                                                                                      | \$2,868,082  |
| Total Expenditure apart from Cost of Administration.....                                                                                                                                             | \$52,448,684 |
| <i>Cost of Administration—</i>                                                                                                                                                                       |              |
| Departmental—                                                                                                                                                                                        | \$           |
| Salaries.....                                                                                                                                                                                        | 851,882      |
| General.....                                                                                                                                                                                         | 107,163      |
|                                                                                                                                                                                                      | \$           |
| Canadian Pension Commission.....                                                                                                                                                                     | 959,045      |
| Veterans' Bureau.....                                                                                                                                                                                | 432,937      |
| Pension Tribunal.....                                                                                                                                                                                | 175,869      |
| Pension Appeal Court.....                                                                                                                                                                            | 135,049      |
| Comptroller of the Treasury.....                                                                                                                                                                     | 37,436       |
|                                                                                                                                                                                                      | 380,853      |
|                                                                                                                                                                                                      | \$2,121,189  |
| Total Expenditure.....                                                                                                                                                                               | \$54,569,873 |

To arrive at the actual cost of administration, not only expenditure, but income and turnover of trust funds must be included. In addition, therefore, to the foregoing, the administration cost should be spread over the following:—

|                                                                            |              |
|----------------------------------------------------------------------------|--------------|
| Revenue and refunds.....                                                   | 794,527      |
| Casual Revenue.....                                                        | 187,609      |
| Returned Soldiers' Insurance premiums and interest.....                    | 2,026,027    |
| Funds deposited to trust accounts, pensions under administration, etc..... | 671,413      |
|                                                                            | \$ 3,679,576 |

Cost of administration—3.642 p.c.

**The Canadian Pension Commission.**—By c. 45 of the Statutes of 1933, the Board of Pension Commissioners for Canada and the Pension Tribunal ceased to exist; their duties were taken over by the Canadian Pension Commission which was formed by the Act referred to, and the personnel of the Commission was increased from three to not less than eight nor more than twelve. Eight members were appointed.

The Commission is responsible for the adjudication and awarding of pensions in respect of disabilities connected with military service and the awarding of pensions to the dependants of those who die. It operates under the authority of the Pension Act. The following table shows the number of pensions in force at the end of the

fiscal years 1918 to 1934, together with the annual liability. The large increase in disability pensioners from 1930 to 1933 inclusive was primarily due to the reinstatement on pension of those who had commuted their pensions from 1920 onwards. This restoration was under the authority of an amendment to the Pension Act in 1930.

### 13.—Pensions in Force as at Mar. 31, 1918-34.

| Fiscal Year. | Dependants.      |            | Disabilities.    |            | Totals.          |            |
|--------------|------------------|------------|------------------|------------|------------------|------------|
|              | No. of Pensions. | Liability. | No. of Pensions. | Liability. | No. of Pensions. | Liability. |
|              |                  |            |                  |            |                  |            |
|              |                  | £          |                  | £          |                  | £          |
| 1918.....    | 10,488           | 4,168,602  | 15,335           | 3,105,126  | 25,823           | 7,273,728  |
| 1919.....    | 16,753           | 9,593,056  | 42,932           | 7,470,729  | 59,685           | 17,063,785 |
| 1920.....    | 17,823           | 10,841,170 | 69,203           | 14,335,118 | 87,026           | 25,176,288 |
| 1921.....    | 19,209           | 12,954,141 | 51,452           | 18,230,697 | 70,661           | 31,184,838 |
| 1922.....    | 19,666           | 12,687,237 | 45,133           | 17,991,535 | 64,739           | 30,678,772 |
| 1923.....    | 19,794           | 12,279,621 | 43,263           | 18,142,145 | 63,057           | 30,421,766 |
| 1924.....    | 19,971           | 12,037,843 | 43,300           | 18,787,206 | 63,271           | 30,825,049 |
| 1925.....    | 20,015           | 11,804,825 | 44,598           | 19,816,380 | 64,613           | 31,621,205 |
| 1926.....    | 20,005           | 11,608,530 | 46,385           | 21,456,941 | 66,390           | 33,065,471 |
| 1927.....    | 19,999           | 11,419,276 | 48,027           | 22,811,373 | 68,026           | 34,230,649 |
| 1928.....    | 19,975           | 11,209,351 | 50,635           | 24,374,502 | 70,610           | 35,583,853 |
| 1929.....    | 20,002           | 11,090,158 | 54,620           | 26,095,150 | 74,622           | 37,185,308 |
| 1930.....    | 19,644           | 10,742,518 | 56,996           | 27,059,992 | 76,640           | 37,802,510 |
| 1931.....    | 19,676           | 10,985,518 | 66,669           | 29,226,208 | 86,345           | 40,211,726 |
| 1932.....    | 19,308           | 10,859,806 | 75,878           | 30,993,571 | 95,186           | 41,858,377 |
| 1933.....    | 18,745           | 10,624,775 | 77,967           | 31,124,543 | 96,712           | 41,749,318 |
| 1934.....    | 18,236           | 10,339,971 | 77,855           | 30,453,454 | 96,091           | 40,793,425 |

The number of medical examinations for pension purposes carried out during the fiscal year was 27,866, being a decrease of 2,098 as compared with the previous year and 4,871 as compared with 1931-32.

### STATEMENT SHOWING THE TOTAL NUMBER OF PERSONS IN RECEIPT OF BENEFITS UNDER THE PENSION ACT AS AT MAR. 31, 1933 and 1934.

|                                                            | 1933.   | 1934.   |
|------------------------------------------------------------|---------|---------|
| Disability pensioners.....                                 | 77,967  | 77,855  |
| Disability pensioners' wives.....                          | 67,825  | 67,499  |
| Disability pensioners' children.....                       | 101,537 | 100,592 |
| Disability pensioners' other relatives.....                | 1,929   | 1,759   |
| Disability pensioners (Widowers, Section 22-9 Pension Act) | 341     | 289     |
|                                                            | 239,599 | 237,794 |
| Dependent pensioners.....                                  | 18,745  | 18,236  |
| Dependent pensioners' children.....                        | 4,512   | 4,046   |
| Other relatives in addition to main dependants.....        | 1,588   | 1,530   |
|                                                            | 24,845  | 23,812  |

### SUPPLEMENTARY PENSIONS IN EFFECT.

|                                                                                           |         |         |
|-------------------------------------------------------------------------------------------|---------|---------|
| <i>Disability—</i>                                                                        |         |         |
| Militia Pension Act (Sections 48 and 49, Pension Act)                                     | 27      | 24      |
| Supplementary to awards paid by the United Kingdom (Sections 46 and 47, Pension Act)..... | 268     | 269     |
| R.N.W.M. Police Supplementary (Sec. 48, Pension Act)                                      | 3       | 3       |
|                                                                                           | 298     | 296     |
| <i>Dependent—</i>                                                                         |         |         |
| Militia Pension Act (Sections 48 and 49, Pension Act).                                    | 6       | 6       |
| Supplementary to awards paid by the United Kingdom (Sections 46 and 47, Pension Act)..... | 58      | 54      |
| Supplementary to awards paid by Belgium (Section 46, Pension Act).....                    | 1       | 1       |
| Supplementary to awards paid by France (Section 46, Pension Act).                         | 31      | 30      |
| Supplementary to awards paid by Italy (Section 46, Pension Act).....                      | 2       | 2       |
|                                                                                           | 98      | 93      |
| Grand Totals.....                                                                         | 264,840 | 261,995 |

Rates of pensions for all ranks were published in tables on pp. 960-962 of the 1925 Year Book, to which the reader is referred.

**Pension Appeal Court.**—This Court continues to function and the following is a summary of decisions rendered during the year ended Mar. 31, 1934:—

|                                                                                                                                                     |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| On appeals by Commission Counsel from Pension Tribunal decisions—                                                                                   |                   |
| Allowed on Merits.....                                                                                                                              | 613               |
| Disallowed.....                                                                                                                                     | 389               |
| Remitted for Re-hearing.....                                                                                                                        | 71                |
|                                                                                                                                                     | <hr/> 1,073       |
| On appeals by Applicant from Pension Tribunal decisions—                                                                                            |                   |
| Allowed on Merits.....                                                                                                                              | 6                 |
| Disallowed.....                                                                                                                                     | 861               |
| Remitted for Re-hearing.....                                                                                                                        | 2                 |
|                                                                                                                                                     | <hr/> 869         |
| On appeal by Applicant from a decision of a Quorum of the Commission—                                                                               |                   |
| Disallowed.....                                                                                                                                     | 1                 |
|                                                                                                                                                     | <hr/> 1           |
|                                                                                                                                                     | <hr/> <hr/> 1,943 |
| On Applications made on behalf of Applicant that leave be granted to the Commission to entertain a fresh application from Applicant—                |                   |
| Allowed.....                                                                                                                                        | 164               |
| Disallowed.....                                                                                                                                     | 46                |
|                                                                                                                                                     | <hr/> 210         |
| On applications for Leave to Renew before the Court an Application for Compassionate Pension or Allowance which had been refused by the Commission— |                   |
| Allowed.....                                                                                                                                        | 1                 |
| Disallowed.....                                                                                                                                     | 7                 |
|                                                                                                                                                     | <hr/> 8           |
|                                                                                                                                                     | <hr/> <hr/>       |

**Veterans' Bureau.**—Pursuant to legislation passed in 1930, a Veterans' Bureau was organized as a branch of the Department and came into active operation on Oct. 1, 1930. The duties of the Bureau were set forth on p. 945 of the Canada Year Book, 1932. Briefly stated, the Bureau was created and is operated to assist applicants for pension in the preparation and presentation of their cases. There is a Chief Pensions Advocate with his staff at Ottawa, and Pensions Advocates have their offices in all the principal cities of Canada.

**War Veterans' Allowances.**—A synopsis of the War Veterans' Allowance Act, which came into force on Sept. 1, 1930, appeared on p. 946 of the Canada Year Book, 1932. The following statistics show the activities of the War Veterans' Allowance Committee for the fiscal years ended Mar. 31, 1933 and 1934.

#### NUMBER OF CASES HANDLED DURING YEAR.

|                                                   | 1933.       | 1934.        |
|---------------------------------------------------|-------------|--------------|
| Number of new applications dealt with.....        | 2,746       | 3,081        |
| Number of cases receiving allowance reviewed..... | 5,312       | 7,540        |
| Totals.....                                       | <hr/> 8,058 | <hr/> 10,621 |

#### NUMBER OF RECIPIENTS AND ANNUAL LIABILITY.

| Item.                                                                   | 1933.            |                   | 1934.            |                        |
|-------------------------------------------------------------------------|------------------|-------------------|------------------|------------------------|
|                                                                         | Number of Cases. | Annual Liability. | Number of Cases. | Annual Liability.      |
| Veterans' allowance payments in force at beginning of fiscal years..... | 3,825            | \$ 1,257,334      | 4,867            | \$ 1,544,045           |
| Awards during fiscal years.....                                         | 1,582            | 519,291           | 1,582            | 455,939                |
| Totals.....                                                             | 5,407            | 1,776,625         | 6,449            | 2,006,148 <sup>1</sup> |
| Cancellations, account of death, etc.....                               | 540              | 232,580           | 612              | 195,209                |
| Payments in force Mar. 31, 1933 and Mar. 31, 1934....                   | 4,867            | 1,544,045         | 5,837            | 1,810,939              |

<sup>1</sup> Includes \$6,164, increase due to change in rate.

## ANALYSIS OF AWARDS MADE FROM SEPTEMBER, 1930, TO MAR. 31, 1934.

| Item.                                                         | Over 60. | Under 60. | Total. |
|---------------------------------------------------------------|----------|-----------|--------|
| Allowances approved Sept. 1, 1930, to Mar. 31, 1933.....      | 3,268    | 2,552     | 5,820  |
| Allowances approved April 1, 1933, to Mar. 31, 1934.....      | 1,065    | 517       | 1,582  |
| Totals, awards.....                                           | 4,333    | 3,069     | 7,402  |
| Cancelled by death, etc. Sept. 1, 1930, to Mar. 31, 1934..... | -        | -         | 1,665  |
| Total in receipt of allowance on Mar. 31, 1934.....           | -        | -         | 5,837  |

**Returned Soldiers' Insurance.\***—The Returned Soldiers' Insurance Act is under the jurisdiction of the Canadian Pension Commission as agent for the Minister of Finance. Collections are made through the Department and payments by the Representative of the Treasury. After several extensions, the date to which applications could be received expired on Aug. 31, 1933. The following statement shows the operations under this Act during the fiscal years ended Mar. 31, 1933-35.

|                                                             | 1933.        | 1934.        | 1935.        |
|-------------------------------------------------------------|--------------|--------------|--------------|
| Applications received.....                                  | 1,638        | 3,007        | nil          |
| Applications accepted.....                                  | 1,450        | 2,801        | 4            |
| Applications rejected.....                                  | 114          | 361          | nil          |
| Number of policies issued.....                              | 1,450        | 2,801        | 4            |
| Number of policies reinstated.....                          | 2,009        | 1,796        | 1,957        |
| Number of policies surrendered for cash.....                | 1,814        | 1,411        | 844          |
| Number of policies in force.....                            | 25,736       | 28,240       | 26,933       |
| Total amount of insurance.....                              | \$60,275,118 | \$61,069,009 | \$57,903,583 |
| Premium income.....                                         | \$1,575,294  | \$1,557,532  | \$1,498,457  |
| Expenditure.....                                            | \$1,085,162  | \$1,004,260  | \$944,241    |
| Number of death claims from commencement of operations..... | 2,967        | 3,233        | 3,50         |
| Amount of death claims.....                                 | \$7,810,519  | \$8,358,551  | \$8,957,368  |
| Balance on hand.....                                        | \$11,291,512 | \$12,313,279 | \$13,487,884 |

## Section 6.—Soldier and General Land Settlement.†

In the session of Parliament of 1934 important legislation was passed by Parliament by which all lands administered by the Soldier Settlement of Canada are placed in exactly the same position with respect to the taxing laws of the provinces as lands occupied by farmers generally. This is a principle for which organized municipalities have been contending for some years and the Government felt that in fairness to other farmer taxpayers this principle should be conceded through appropriate Parliamentary action. The amendment to the Act was made retroactive to Jan. 1, 1933. Recognizing at the same time that there were many settlers on Soldier Settlement lands who were in arrears to municipal taxing authorities, the Government made provision in the estimates for 1934-35 for the payment of such taxes on lands occupied by soldier settlers up to the effective date of the above legislation.

At the end of the calendar year 1934, the number of farms under the jurisdiction of the Soldier Settlement of Canada was 21,268, made up of: soldier settlers, 10,892; civilian settlers, 5,783; British families (including those under the New Brunswick Family Scheme), 2,077; unsold farms on hand, 2,516. Of the settlers who have retired from the Scheme 5,684 have repaid their loans in full (2,792 by cash repayment, 2,892 by sale of properties).

The public investment as at Dec. 31, 1934, was \$55,851,821.59. There had been repaid to the Public Treasury from all sources \$54,064,046.15.

\*Revised by D. S. Drew, Officer in Charge of Returned Soldiers' Insurance.

†Revised by C. W. Cavers, Soldier Settlement of Canada.



Under the 3,000 British Family Scheme 3,346 families were accepted for settlement, of whom 1,503 families withdrew from the Scheme. Under the New Brunswick British Family Scheme 359 families were accepted for settlement and of these 103 withdrew.

Further Land Settlement activities of this Department included the Back-to-the-Land Movement inaugurated by the Minister in 1930 in co-operation with the railways, and the Relief Land Settlement Plan, which was inaugurated in 1932 by the Dominion Government in co-operation with the provinces and municipalities. Under the former plan a total of 15,589 families and 33,842 single men have been placed on the land.

The Relief Land Settlement plan was responsible for the placing of 3,948 families on the land up to the end of 1934. These families were selected from among unemployed who had previous farm experience and were in receipt of direct relief.

In connection with the investigations carried out by the field staff of the Soldier Settlement for the War Veterans' Allowance Committee, Board of Pension Commissioners, Department of Pensions and National Health, Department of the Interior and Department of Immigration and Colonization, a total of 22,170 cases have been dealt with from Jan. 1, 1932, to Dec. 31, 1934.

### Section 7.—Department of the Secretary of State.\*

The Department of the Secretary of State was constituted in its present form in 1873, through the merging of the previously-existing offices of the Secretaries of State for Canada and for the provinces. The Secretary of State is the official mouthpiece of the Government as well as the medium of communication between the Dominion and Provincial Governments, all correspondence between the Governments being conducted by him with the Lieutenant-Governors. He is also the custodian of the Great Seal of Canada and the Privy Seal as well as the channel by which the general public may approach the Crown.

The Secretary of State is also the Registrar-General, registering all proclamations, commissions, licences, warrants, writs, and other instruments issued under the Great Seal and the Privy Seal. He is further charged with the administration of the Boards of Trade Act, the Companies Act, the Canada Temperance Act, the Copyright Act, the Naturalization Act, the Patent Act, the Trade Unions Act, the Ticket of Leave Act, the Unfair Competition Act, and with the collection and tabling of Parliamentary Returns. The following information on these subjects has been secured in the course of administration.

**Charters of Incorporation.**—The number of companies incorporated under the Companies Act and amending Acts during the fiscal year 1933-34 was 531 with a total capitalization of \$175,239,320. Supplementary letters patent were granted during the year to 185 companies, 38 of which increased their capital stock by the aggregate amount of \$62,615,060; 61 decreased their capital stock by \$86,810,799; the remaining 86 were granted supplementary letters patent for various purposes, such as changing names, extending powers, etc. The total capitalization of new companies plus the increase of capital of existing companies amounted to \$237,854,380, partly offset by the above-mentioned decreases in capitalization totalling \$86,810,799.

\*Revised by E. H. Coleman, K.C., Under-Secretary of State, Department of the Secretary of State.

In Table 14 will be found the number and capitalization of companies incorporated during the years 1900-34.

**14.—Number and Capitalization of Companies Incorporated under the Companies Act and Amending Acts, calendar years 1900-07, and fiscal years ended Mar. 31, 1908-34.**

| Year.         | New Companies. |                              | Old Companies. |                                   | Gross Increase in Capitalization. <sup>1</sup> | Old Companies. |                                   | Net Increase of Capitalization. <sup>1</sup> |
|---------------|----------------|------------------------------|----------------|-----------------------------------|------------------------------------------------|----------------|-----------------------------------|----------------------------------------------|
|               | Number.        | Capitalization. <sup>1</sup> | Number.        | Increase in Capital. <sup>1</sup> |                                                | Number.        | Decrease in Capital. <sup>1</sup> |                                              |
|               |                | \$                           |                | \$                                | \$                                             |                | \$                                | \$                                           |
| 1900.....     | 53             | 9,558,900                    | -              | 3,351,000                         | 12,909,900                                     | -              | -                                 | 12,909,900                                   |
| 1901.....     | 55             | 7,682,552                    | -              | 3,420,000                         | 11,082,552                                     | -              | -                                 | 11,082,552                                   |
| 1902.....     | 126            | 51,182,850                   | -              | 5,055,000                         | 56,237,850                                     | -              | -                                 | 56,237,850                                   |
| 1903.....     | 187            | 83,405,340                   | -              | 5,854,520                         | 89,259,860                                     | -              | -                                 | 89,259,860                                   |
| 1904.....     | 208            | 80,597,752                   | -              | 3,366,000                         | 83,963,752                                     | -              | -                                 | 83,963,752                                   |
| 1905.....     | 293            | 99,910,900                   | -              | 9,685,000                         | 109,595,900                                    | -              | -                                 | 109,595,900                                  |
| 1906.....     | 374            | 180,173,075                  | -              | 32,403,000                        | 212,576,075                                    | -              | -                                 | 212,576,075                                  |
| 1907.....     | 378            | 132,686,300                  | -              | 19,091,900                        | 151,778,200                                    | -              | -                                 | 151,778,200                                  |
| 1908 (3 mos.) | 64             | 13,299,000                   | -              | 865,000                           | 14,164,000                                     | -              | -                                 | 14,164,000                                   |
| 1909.....     | 366            | 121,624,875                  | -              | 72,293,000                        | 193,917,875                                    | -              | -                                 | 193,917,875                                  |
| 1910.....     | 420            | 301,788,300                  | 44             | 46,589,500                        | 348,377,800                                    | 4              | 670,600                           | 347,707,200                                  |
| 1911.....     | 454            | 458,415,800                  | 45             | 24,715,600                        | 483,131,400                                    | 4              | 10,650,000                        | 472,481,400                                  |
| 1912.....     | 575            | 447,626,999                  | 44             | 42,939,000                        | 490,565,999                                    | 7              | 17,880,800                        | 472,685,199                                  |
| 1913.....     | 835            | 625,212,300                  | 54             | 55,549,000                        | 680,762,300                                    | 5              | 11,861,381                        | 669,100,819                                  |
| 1914.....     | 647            | 361,708,567                  | 61             | 63,599,003                        | 425,307,570                                    | 3              | 3,290,000                         | 422,017,570                                  |
| 1915.....     | 461            | 208,283,633                  | 34             | 26,650,000                        | 234,933,633                                    | 4              | 6,840,000                         | 228,093,633                                  |
| 1916.....     | 534            | 157,342,806                  | 28             | 68,996,000                        | 226,338,806                                    | 11             | 4,811,700                         | 221,527,106                                  |
| 1917.....     | 606            | 207,967,810                  | 36             | 26,540,000                        | 234,507,810                                    | 3              | 5,050,600                         | 229,457,210                                  |
| 1918.....     | 574            | 335,982,400                  | 41             | 69,321,400                        | 405,303,800                                    | 4              | 1,884,300                         | 403,419,500                                  |
| 1919.....     | 512            | 214,326,000                  | 69             | 67,583,625                        | 281,909,625                                    | 11             | 2,115,985                         | 279,793,640                                  |
| 1920.....     | 991            | 603,210,850                  | 88             | 85,187,750                        | 688,398,600                                    | 10             | 19,530,000                        | 668,868,600                                  |
| 1921.....     | 852            | 752,062,683                  | 135            | 79,803,000                        | 831,865,683                                    | 17             | 7,698,300                         | 824,167,383                                  |
| 1922.....     | 875            | 351,555,900                  | 43             | 18,275,000                        | 369,830,900                                    | 13             | 5,121,450                         | 364,709,450                                  |
| 1923.....     | 752            | 314,603,050                  | 45             | 46,108,500                        | 360,711,550                                    | 30             | 10,751,123                        | 349,960,427                                  |
| 1924.....     | 604            | 204,646,283                  | 58             | 15,352,755                        | 219,999,038                                    | 27             | 57,944,410                        | 162,054,628                                  |
| 1925.....     | 663            | 231,044,800                  | 47             | 15,549,573                        | 246,594,373                                    | 28             | 43,863,633                        | 202,730,740                                  |
| 1926.....     | 801            | 353,342,800                  | 48             | 33,303,500                        | 386,646,300                                    | 47             | 43,797,780                        | 342,848,520                                  |
| 1927.....     | 836            | 692,540,900                  | 70             | 33,524,000                        | 726,064,900                                    | 40             | 16,905,045                        | 709,159,855                                  |
| 1928.....     | 1,102          | 538,595,570                  | 82             | 179,167,100                       | 717,762,670                                    | 31             | 37,123,580                        | 680,639,090                                  |
| 1929.....     | 1,202          | 1,406,006,340                | 128            | 412,396,320                       | 1,818,402,660                                  | 40             | 48,005,533                        | 1,770,397,127                                |
| 1930.....     | 1,280          | 1,346,138,367                | 127            | 293,496,800                       | 1,639,635,167                                  | 35             | 46,955,000                        | 1,592,680,167                                |
| 1931.....     | 898            | 562,613,797                  | 75             | 153,524,400                       | 716,138,197                                    | 39             | 50,604,545                        | 665,533,652                                  |
| 1932.....     | 760            | 294,770,312                  | 43             | 27,981,750                        | 322,752,062                                    | 44             | 52,773,618                        | 269,978,444                                  |
| 1933.....     | 548            | 145,453,718                  | 38             | 44,621,950                        | 190,075,668                                    | 46             | 31,636,447                        | 158,439,221                                  |
| 1934.....     | 531            | 175,239,320                  | 38             | 62,615,060                        | 237,854,380                                    | 61             | 86,810,799                        | 151,043,581                                  |

<sup>1</sup>Includes consideration of the amounts of capital received on the issue of shares without nominal or par value.

**Naturalizations.**—The naturalizations effected under the Naturalization Act (R.S.C., 1906, c. 77) for the calendar years 1908-17 inclusive, were given on p. 594 of the Year Book for 1919. Since Jan. 1, 1918, the only method of obtaining naturalization has been under what is known as the "Imperial" Naturalization Act, which came into force on Jan. 1, 1915. This Act was known under the title of the Naturalization Act, 1914, until July 7, 1919, when it was repealed and the Naturalization Act, 1919, came into force. On July 1, 1920, the Naturalization Act, 1919, was repealed, and the Naturalization Act, 1914, was revived and amended under the title of the Naturalization Acts, 1914 and 1920. By an amendment passed by Parliament in 1923, the restriction by which persons of alien enemy birth were ineligible to receive certificates of naturalization for a period of 10 years after the termination of the War was removed, and at the present time any alien may apply for naturalization, regardless of his nationality. All these Acts have been consolidated in R.S.C., 1927, c. 138. Since Jan. 15, 1932, women British subjects on marrying aliens may by declaration retain their British nationality, if they have

not by marriage acquired their husbands' nationalities, and the wives of aliens no longer become British subjects through their husbands' naturalization. They must apply to the Secretary of State.

Table 15 shows the number of naturalization certificates issued to single persons or heads of families under these Acts during the calendar years from 1924 to 1933. The total numbers of persons naturalized during the fiscal years ended Mar. 31, 1933 and 1934, were 23,617 and 21,908 respectively, including (except as stated above) the wives and minor children of those to whom naturalization certificates were issued.

**15.—Naturalizations in Canada, by Principal Nationalities, under the Naturalization Act, calendar years 1924-33.**

| Nationality.                        | 1924.        | 1925.        | 1926.        | 1927.        | 1928.        | 1929.         | 1930.         | 1931.         | 1932.         | 1933.         |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|
| Albanian.....                       | 3            | 12           | 4            | 8            | 11           | 9             | 4             | 4             | 2             | 2             |
| Argentinian.....                    | —            | —            | —            | 2            | 2            | 1             | 4             | 3             | 3             | 2             |
| Austrian.....                       | 1,108        | 1,021        | 1,195        | 925          | 728          | 890           | 1,004         | 1,050         | 1,057         | 659           |
| Austro-Hungarian.....               | 15           | 9            | 4            | 7            | 2            | 5             | 4             | 5             | 3             | 5             |
| Belgian.....                        | 157          | 192          | 204          | 157          | 169          | 264           | 274           | 257           | 284           | 305           |
| Brazilian.....                      | —            | 1            | 2            | —            | —            | 3             | 1             | —             | 2             | —             |
| Bulgarian.....                      | 74           | 76           | 58           | 59           | 46           | 64            | 41            | 37            | 44            | 30            |
| Chinese.....                        | 60           | 50           | 32           | 29           | 28           | 24            | 23            | 22            | 5             | 1             |
| Czechoslovak.....                   | 115          | 60           | 47           | 38           | 57           | 287           | 287           | 646           | 1,078         | 964           |
| Danish.....                         | 79           | 108          | 105          | 116          | 132          | 208           | 217           | 249           | 285           | 390           |
| Danzigers.....                      | —            | —            | —            | 1            | 1            | —             | 1             | 2             | 5             | 4             |
| Dutch.....                          | 85           | 67           | 75           | 79           | 64           | 112           | 143           | 203           | 229           | 197           |
| Egyptian.....                       | 2            | —            | 2            | 1            | —            | —             | —             | —             | —             | 2             |
| Estonian.....                       | —            | —            | —            | 2            | 8            | 9             | 10            | 14            | 16            | 24            |
| Finnish.....                        | 152          | 184          | 119          | 128          | 133          | 288           | 276           | 319           | 329           | 359           |
| French.....                         | 105          | 107          | 140          | 123          | 98           | 118           | 119           | 154           | 127           | 126           |
| German.....                         | 346          | 246          | 229          | 183          | 171          | 288           | 420           | 449           | 530           | 675           |
| Greek <sup>1</sup> .....            | 384          | 293          | 167          | 162          | 153          | 173           | 181           | 97            | 121           | 113           |
| Hungarian.....                      | 112          | 71           | 69           | 37           | 45           | 184           | 396           | 780           | 829           | 721           |
| Icelandic.....                      | 5            | 10           | 15           | 15           | 17           | 12            | 17            | 30            | 21            | 8             |
| Italian <sup>2</sup> .....          | 1,366        | 1,258        | 1,590        | 1,270        | 1,146        | 1,739         | 1,186         | 1,183         | 1,418         | 1,265         |
| Japanese.....                       | 92           | 53           | 88           | —            | 17           | 35            | 18            | 33            | 7             | —             |
| Latvian.....                        | —            | —            | —            | 17           | 30           | 25            | 25            | 29            | 34            | 29            |
| Lithuanian.....                     | —            | —            | 1            | 46           | 55           | 55            | 46            | 130           | 192           | 275           |
| Luxemburger.....                    | —            | 5            | 6            | 2            | 5            | 4             | 2             | 4             | 8             | 5             |
| Mexican.....                        | —            | —            | —            | 1            | —            | —             | —             | —             | —             | —             |
| Norwegian.....                      | 207          | 183          | 192          | 202          | 197          | 424           | 381           | 412           | 453           | 498           |
| Palestinian.....                    | 2            | —            | 3            | 2            | 4            | 6             | 6             | 4             | 1             | 5             |
| Persian <sup>3</sup> .....          | 4            | 6            | 3            | 2            | 5            | 1             | 4             | 1             | 4             | 3             |
| Polish.....                         | 926          | 749          | 1,339        | 1,189        | 962          | 1,295         | 1,218         | 2,623         | 4,240         | 3,749         |
| Roumanian.....                      | 620          | 561          | 626          | 570          | 437          | 671           | 588           | 614           | 781           | 720           |
| Russian.....                        | 1,240        | 989          | 1,119        | 981          | 858          | 1,687         | 1,940         | 2,527         | 2,936         | 1,970         |
| Spanish.....                        | 10           | 8            | 12           | 5            | 10           | 7             | 8             | 8             | 9             | 5             |
| Swedish.....                        | 284          | 262          | 274          | 258          | 242          | 295           | 310           | 442           | 375           | 385           |
| Swiss.....                          | 42           | 48           | 31           | 9            | 13           | 26            | 38            | 27            | 61            | 47            |
| Syrian.....                         | —            | —            | —            | —            | —            | —             | —             | 53            | 86            | 77            |
| Turkish <sup>4</sup> .....          | 231          | 193          | 184          | 136          | 128          | 160           | 174           | 56            | 40            | 30            |
| United States.....                  | 888          | 927          | 1,070        | 963          | 939          | 1,073         | 1,104         | 1,652         | 1,877         | 1,374         |
| Yugo-Slav (Serb-Croat-Slovene)..... | 119          | 117          | 116          | 80           | 78           | 295           | 404           | 646           | 1,018         | 1,160         |
| All others.....                     | 10           | 6            | 9            | 6            | 12           | 12            | 16            | 11            | 24            | 54            |
| <b>Totals.....</b>                  | <b>8,843</b> | <b>7,873</b> | <b>9,130</b> | <b>7,828</b> | <b>7,019</b> | <b>10,734</b> | <b>10,906</b> | <b>14,752</b> | <b>18,527</b> | <b>16,240</b> |

<sup>1</sup> Includes 1 Greek Albanian for 1927, 1 Greek Turk for 1925 and 1 Greek Macedonian for 1930. <sup>2</sup> Includes 1 Italian Greek for 1926. <sup>3</sup> Includes 1 Persian Armenian for 1925. <sup>4</sup> Turkish includes also Syrian, Armenian, Greek, Bulgarian, Palestinian and Mesopotamian Turks.

**Canada Temperance Act.**—Under Parts I and II of this Act, provision is made for the prohibition of the sale of intoxicating liquors in counties and cities. The last vote taken under these parts was in the County of Compton, Quebec, on April 28, 1930, in response to a petition for the repeal of the Act in that county. The vote resulted in favour of the repeal, which became effective on June 14, 1930. Part III of the Act relates to penalties and prosecutions, Part IV to the prohibition of the importation and exportation of intoxicating liquors into and from the provinces, while Part V enacts provisions in aid of provincial legislation for the control of the liquor traffic.



### Section 8.—Royal Canadian Mounted Police.

The R.C.M. Police is a constabulary maintained by the Dominion Government. When organized in 1873 it was known as the North West Mounted Police; in 1904, its name was changed to the Royal North West Mounted Police and in 1920, to the Royal Canadian Mounted Police.

The Force is controlled and administered by a Minister of the Crown (at present, the Minister of Justice) and may be employed anywhere in Canada.

It is primarily responsible for the maintenance of law and order in Yukon, the Arctic regions, the unorganized Northwest Territories and, for a variety of services, or the Dominion Government in all provinces of the Dominion. A large number of the Dominion departments utilize its services in investigations and in administrative work.

Amongst the many services rendered for the Dominion Government, the repression of the traffic in noxious drugs, the protection of Government buildings and dockyards, the enforcement of Dominion laws and the duties of the Preventive Service for the Department of National Revenue may be mentioned.

Under the R.C.M. Police Act, any province may enter into an agreement with the Dominion Government for the services of the R.C.M. Police to enforce provincial laws upon payment for its services.

In addition to the Dominion duties referred to, the Force at the present time has agreements with the provinces of Prince Edward Island, Nova Scotia, New Brunswick, Manitoba, Saskatchewan and Alberta, whereby the R.C.M. Police is responsible for the enforcement of the Criminal Code and provincial statutes in those provinces.

The Force is divided into 15 divisions of varying strength distributed over the entire country. The term of engagement is 5 years for recruits with re-enlistment for 1, 2, 3 or 5 years. The officers are commissioned by the Crown.

Recruits are trained at Regina, Sask. The course of training covers six months and consists of drill, both mounted and foot, and general instructions in police duties. The Force is distributed from Halifax to Vancouver and from Craig Harbour, on Ellesmere Island, in the far north, to the International Boundary between Canada and the United States.

The Force, which is commanded by a Commissioner whose Headquarters are at Ottawa, had a strength of 2,605 on Dec. 31, 1934, including masters and seamen employed with the Marine Section for the prevention of smuggling, distributed as follows:—

**16.—Strength and Distribution of the Royal Canadian Mounted Police  
as at Dec. 31, 1934.**

| Place.             | Com-<br>mis-<br>sioner. | De-<br>puty<br>Com-<br>mis-<br>sioner. | Asst.<br>Com-<br>mis-<br>sioners. | Super-<br>intend-<br>ents. | Inspec-<br>tors. | De-<br>tective<br>In-<br>spectors | Sub-<br>Inspec-<br>tors. | Asst.<br>Vet.<br>Sur-<br>geons. | Staff<br>Ser-<br>geants | Ser-<br>geants | Cor-<br>porals. |
|--------------------|-------------------------|----------------------------------------|-----------------------------------|----------------------------|------------------|-----------------------------------|--------------------------|---------------------------------|-------------------------|----------------|-----------------|
| P.E.I.....         | -                       | -                                      | -                                 | -                          | 1                | -                                 | -                        | -                               | 1                       | 1              | 6               |
| N.S.....           | -                       | -                                      | 1                                 | 1                          | 6                | -                                 | -                        | -                               | 4                       | 16             | 25              |
| N. B.....          | -                       | -                                      | -                                 | 1                          | 6                | -                                 | -                        | -                               | 2                       | 11             | 19              |
| Que.....           | -                       | -                                      | -                                 | 1                          | 3                | 1                                 | -                        | -                               | 2                       | 7              | 14              |
| E. Ont.....        | 1                       | 1                                      | 3                                 | 6                          | 11               | -                                 | 1                        | -                               | 17                      | 35             | 47              |
| W. Ont.....        | -                       | -                                      | -                                 | 1                          | 3                | -                                 | -                        | -                               | 1                       | 5              | 15              |
| Man.....           | -                       | -                                      | 1                                 | 1                          | 5                | -                                 | -                        | -                               | 5                       | 19             | 19              |
| Sask.....          | -                       | -                                      | 1                                 | 2                          | 10               | 1                                 | 1                        | 1                               | 6                       | 32             | 39              |
| Alta. "K" Div..    | -                       | -                                      | 1                                 | 2                          | 10               | -                                 | -                        | -                               | 5                       | 23             | 37              |
| N.W.T. "G" Div.    | -                       | -                                      | -                                 | -                          | 2                | -                                 | -                        | -                               | -                       | 5              | 10              |
| B. C.....          | -                       | -                                      | 1                                 | -                          | 2                | -                                 | -                        | -                               | 5                       | 10             | 15              |
| Yukon.....         | -                       | -                                      | -                                 | 1                          | 1                | -                                 | -                        | -                               | -                       | 3              | 6               |
| <b>Totals.....</b> | <b>1</b>                | <b>1</b>                               | <b>8</b>                          | <b>16</b>                  | <b>60</b>        | <b>1</b>                          | <b>2</b>                 | <b>1</b>                        | <b>48</b>               | <b>172</b>     | <b>257</b>      |



**16.—Strength and Distribution of the Royal Canadian Mounted Police  
as at Dec. 31, 1934—concluded.**

| Place.              | Lance<br>Cor-<br>porals. | Con-<br>stab-<br>les. | Sub-<br>Con-<br>stab-<br>les. | Special<br>Con-<br>stab-<br>les. | Marine<br>Section. | Total<br>Per-<br>sonnel. | Saddle<br>Horses. | Team<br>Horses. | Total<br>Horses. | Dogs.      |
|---------------------|--------------------------|-----------------------|-------------------------------|----------------------------------|--------------------|--------------------------|-------------------|-----------------|------------------|------------|
| P.E.I.....          | -                        | 22                    | -                             | 2                                | 4                  | 37                       | -                 | -               | -                | -          |
| N.S.....            | 3                        | 122                   | 1                             | 2                                | 168                | 349                      | -                 | -               | -                | -          |
| N.B.....            | 1                        | 75                    | -                             | 3                                | 19                 | 137                      | -                 | -               | -                | -          |
| Que.....            | 5                        | 99                    | -                             | 2                                | 11                 | 145                      | -                 | -               | -                | -          |
| E. Ont.....         | 11                       | 307                   | 2                             | 15                               | 1                  | 458                      | 41                | 3               | 44               | 13         |
| W. Ont.....         | 4                        | 58                    | -                             | 4                                | -                  | 91                       | -                 | -               | -                | 9          |
| Man.....            | 1                        | 169                   | -                             | 10                               | -                  | 230                      | 34                | -               | 34               | 33         |
| Sask.....           | 7                        | 394                   | 10                            | 31                               | -                  | 535                      | 88                | 13              | 101              | 43         |
| Alta. "K" Div.....  | 7                        | 225                   | -                             | 37                               | -                  | 352                      | 57                | 2               | 59               | 13         |
| N.W.T. "G" Div..... | 5                        | 33                    | -                             | 13                               | -                  | 68                       | -                 | -               | -                | 311        |
| B.C.....            | 6                        | 107                   | -                             | 7                                | 16                 | 169                      | 40                | -               | 40               | -          |
| Yukon.....          | -                        | 23                    | -                             | -                                | -                  | 34                       | -                 | 2               | 2                | 49         |
| <b>Totals.....</b>  | <b>50</b>                | <b>1,634</b>          | <b>13</b>                     | <b>126</b>                       | <b>219</b>         | <b>2,605</b>             | <b>260</b>        | <b>20</b>       | <b>280</b>       | <b>471</b> |

### Section 9.—The Civil Service of Canada.

**Organization.\***—Prior to 1882, appointments to the Civil Service were made directly by the Government. In that year, a Board of Civil Service Examiners was appointed to examine candidates and issue certificates of qualification to those successful at examinations. Appointments, however, were still made by the Government of the day.

The Royal Commission of 1907, appointed to inquire into the Civil Service Act and its operation, reported in favour of the creation of a Civil Service Commission. In 1908 this body was appointed; it consisted of two members appointed by the Governor in Council and holding office during good behaviour, but removable by the Governor General on address of the Senate and House of Commons. The Civil Service was classified into three divisions under the Deputy Heads of Departments, each division consisting of two subdivisions, each of these having its scale of salaries. The Commission was charged with the organization of and appointments to the Inside Service (at Ottawa), certain appointments to be made after open competition and others after qualifying tests, also with holding qualifying examinations for the Outside Service (the Service apart from Ottawa) to obtain lists from which selections could be made by the various Departments. All British subjects between 18 and 35 years of age who had resided in Canada for three years were eligible to try these examinations.

In 1918 a third member of the Civil Service Commission was appointed, and by the Civil Service Act of that year the principle of appointment after open competition was applied to the Outside as well as the Inside Service. The Act also provided for the organization by the Commission of the various Government Departments, for a classification of all positions in the Service on a duties basis, for the establishing of new rates of compensation, and for the principle of promotion by merit whenever consistent with the best interests of the Service. Provision was also made for preference, in the matter of appointment to the Service, to be given to qualified applicants who had served in the Great War.

**Civil Service Statistics.†**—From April, 1924, a monthly return of personnel and salaries has been made by each Department to the Dominion Bureau of Statistics, according to a plan that ensures comparability between Departments and

\* Revised by Wm. Foran, Secretary, Civil Service Commission, Ottawa.

† Revised by Col. J. R. Munro, Chief of the Finance Branch of the Dominion Bureau of Statistics, Ottawa.

continuity in point of time. The institution of this system was preceded by an investigation back to 1912, the summary results of which are presented in Table 17.

During the war years, as will be seen from Table 17, the number of employees increased very rapidly, as a result of the enlargement of the functions of government and the imposition of new taxes, necessitating additional officials as collectors. Such new services as the Department of Pensions and National Health and the Soldier Settlement Board were also created. The maximum was reached in January, 1920, when 47,133 persons were employed; this number has since decreased to 41,346 in January, 1934. It may be added that, out of 40,469 in March, 1934, 1,151 in the Income Tax Branch and 2,266 in the Department of Pensions and National Health, or 3,417 in all, were engaged in services of outstanding importance which had no existence before the War. Further, an additional 10,842 persons were, in March, 1934, employed in the Post Office Department, performing services of an industrial rather than of a governmental type, and receiving their salaries out of the payments of the public for services immediately rendered, rather than out of taxation. During the last fiscal year the system of reporting non-enumerated employees of the Post Office Department was changed from a monthly to a quarterly basis, which accounts for the apparent abnormally increased expenditure for March, 1934, as compared with March, 1933 and previous years.

The statistics of numbers of employees and of salaries, now being secured monthly, are more comprehensive than those previously published, as a result of the inclusion of various classes of employees, largely "part-time", "seasonal" and "fees of office" employees, who were not included in the report published in 1925. These employees are largely in the Departments of Marine, Fisheries and Public Works. There remain, however, many persons in the "non-enumerated classes" whose numbers cannot be supplied monthly by the departmental officials but whose compensation is included in the monthly figures of expenditure on personnel, as shown in Table 18.

**17.—Summary of Civil Service Employees (Permanent and Temporary) of the Government of Canada, together with Total Salaries, in the month of January of the years 1912-34, inclusive.**

| Year.                   | Employees. | Salaries. | Bonus.  | Salaries and Bonus. |
|-------------------------|------------|-----------|---------|---------------------|
|                         | No.        | \$        | \$      | \$                  |
| 1912.....               | 20,016     | 1,519,778 | 16,413  | 1,536,190           |
| 1913.....               | 22,621     | 1,780,703 | 22,569  | 1,803,272           |
| 1914.....               | 25,107     | 1,960,238 | 27,971  | 1,988,209           |
| 1915.....               | 28,010     | 2,268,700 | 32,167  | 2,300,867           |
| 1916.....               | 29,219     | 2,400,068 | 31,431  | 2,431,499           |
| 1917.....               | 32,435     | 2,673,767 | 29,167  | 2,702,934           |
| 1918.....               | 38,369     | 3,147,461 | 94,321  | 3,241,782           |
| 1919.....               | 41,825     | 3,552,686 | 557,882 | 4,110,568           |
| 1920.....               | 47,133     | 4,423,157 | 965,538 | 5,388,695           |
| 1921.....               | 41,957     | 4,414,669 | 861,973 | 5,276,642           |
| 1922.....               | 41,094     | 4,369,509 | 616,105 | 4,985,614           |
| 1923.....               | 38,992     | 4,268,357 | 463,470 | 4,731,827           |
| 1924.....               | 38,062     | 4,297,467 | 449,228 | 4,746,695           |
| 1925 <sup>1</sup> ..... | 38,645     | 4,473,470 | 166,461 | 4,639,931           |
| 1926 <sup>1</sup> ..... | 39,097     | 4,699,076 | —       | 4,699,076           |
| 1927 <sup>1</sup> ..... | 39,440     | 4,786,615 | —       | 4,786,615           |
| 1928 <sup>1</sup> ..... | 40,740     | 5,161,558 | —       | 5,161,558           |
| 1929 <sup>1</sup> ..... | 42,038     | 5,428,058 | —       | 5,428,058           |
| 1930 <sup>1</sup> ..... | 43,525     | 5,543,749 | —       | 5,543,749           |
| 1931 <sup>1</sup> ..... | 45,167     | 5,757,554 | —       | 5,757,554           |
| 1932 <sup>1</sup> ..... | 43,784     | 5,653,169 | —       | 5,653,169           |
| 1933 <sup>1</sup> ..... | 41,920     | 4,775,591 | —       | 4,775,591           |
| 1934 <sup>1</sup> ..... | 41,346     | 4,698,536 | —       | 4,698,536           |

<sup>1</sup> Figures for January, 1925-34 are not comparable with those for preceding Januaries, because monthly records now being published include various classes of employees not included in the historical record for the 13 years 1912-24. In Table 18 will be found comparable figures of employees in the various Departments in March, 1933, and March, 1934.

Table 18, which gives statistics by Departments, with a further classification by principal branches where such are recorded, is included to give comparable figures for the latest months. In the month of March, 1934, the total number of employees in the enumerated classes was 40,469 as compared with 41,911 in March, 1933. The total expenditure on wages and salaries for all classes of employees for March, 1934, was \$8,256,702 as compared with \$6,648,595 for March, 1933. As already mentioned, the increase is due to the change to a quarterly system of reporting of the Post Office Department in 1934 from a monthly method in 1933.\*

\*Total expenditures on salaries and wages for all other Departments combined were \$4,155,567 in March, 1933 and \$3,879,962 in March, 1934.

**18.—Total Numbers of Civil Service Employees, by Departments and Principal Branches ("Non-Enumerated Classes" Excluded), and Total Expenditures on Salaries and Wages of all Employees ("Non-Enumerated Classes" Included), March, 1933, and March, 1934.**

| Department.                                                  | March, 1933. |                     | March, 1934. |                     |
|--------------------------------------------------------------|--------------|---------------------|--------------|---------------------|
|                                                              | No.          | Expenditure.        | No.          | Expenditure.        |
| 1. Agriculture—                                              |              | \$                  |              | \$                  |
| Main Department.....                                         | 1,216        | 158,516             | 1,168        | 141,138             |
| Experimental Farms.....                                      | 477          | 113,694             | 470          | 111,111             |
| Health of Animals.....                                       | 599          | 93,697              | 538          | 85,961              |
| Totals, Agriculture.....                                     | 2,292        | 365,907             | 2,176        | 338,210             |
| 2. Archives.....                                             | 80           | 11,662              | 76           | 12,229              |
| 3. Auditor-General.....                                      | 214          | 29,695              | 212          | 25,841              |
| 4. Canadian Radio Broadcasting Commission <sup>1</sup> ..... | 10           | 2,961               | 68           | 12,093              |
| 5. Civil Service Commission <sup>1</sup> .....               | 137          | 18,032              | 124          | 16,621              |
| 6. Chief Electoral Officer.....                              | 3            | 379                 | 3            | 380                 |
| 7. External Affairs—                                         |              |                     |              |                     |
| Prime Minister's Office.....                                 | 15           | 1,964 <sup>2</sup>  | 17           | 2,349 <sup>2</sup>  |
| Main Department.....                                         | 60           | 8,647               | 55           | 7,701               |
| The High Commissioner's Office.....                          | 38           | 5,788 <sup>2</sup>  | 38           | 5,825 <sup>2</sup>  |
| Canadian Legation, Washington.....                           | 17           | 3,749 <sup>2</sup>  | 16           | 3,610 <sup>2</sup>  |
| Canadian Legation, Paris.....                                | 14           | 2,337 <sup>2</sup>  | 12           | 1,923 <sup>2</sup>  |
| The League of Nations.....                                   | 5            | 1,408 <sup>2</sup>  | 4            | 1,302 <sup>2</sup>  |
| Canadian Legation, Tokyo, Japan.....                         | 10           | 2,556 <sup>2</sup>  | 11           | 2,291 <sup>2</sup>  |
| Canadian Trade Publicity.....                                | —            | —                   | 6            | 870 <sup>2</sup>    |
| Totals, External Affairs.....                                | 159          | 26,449 <sup>2</sup> | 159          | 25,871 <sup>2</sup> |
| 8. Finance.....                                              | 414          | 47,795              | 394          | 42,263              |
| Comptroller of Treasury.....                                 | 10           | 1,421               | 944          | 118,967             |
| Government Contracts Supervision Commission.....             | 6            | 933                 | 5            | 731                 |
| Royal Canadian Mint.....                                     | 88           | 12,677              | 90           | 12,917              |
| Superintendent of Bankruptcy.....                            | 8            | 1,410               | 10           | 1,565               |
| Tariff Board.....                                            | —            | —                   | 23           | 7,361               |
| 9. Fisheries.....                                            | 349          | 102,737             | 310          | 69,265              |
| 10. Governor General's Secretary <sup>3</sup> .....          | 10           | 2,524               | 10           | 2,525               |
| 11. House of Commons—                                        |              |                     |              |                     |
| Clerk of the House.....                                      | 243          | 40,796              | 254          | 41,960              |
| Sergeant-at-Arms.....                                        | 230          | 19,176              | 288          | 21,498              |
| Totals, House of Commons.....                                | 473          | 59,972              | 542          | 63,458              |
| 12. Immigration and Colonization.....                        | 722          | 88,432              | 647          | 79,172              |
| 13. Indian Affairs—                                          |              |                     |              |                     |
| Main Department.....                                         | 676          | 58,372              | 632          | 54,203              |
| Educational Branch.....                                      | 380          | 21,617              | 388          | 22,891              |
| Totals, Indian Affairs.....                                  | 1,056        | 79,989              | 1,020        | 77,094              |
| 14. Insurance.....                                           | 43           | 7,419               | 45           | 7,509               |
| Fire Prevention Branch.....                                  | 2            | 486                 | 2            | 486                 |
| 15. Interior.....                                            | 1,010        | 156,037             | 969          | 141,375             |
| 16. International Joint Commission.....                      | 6            | 2,365               | 6            | 2,366               |
| 17. Justice—                                                 |              |                     |              |                     |
| Main Department.....                                         | 42           | 7,496               | 42           | 7,796               |
| Clemency Branch.....                                         | 15           | 1,925               | 16           | 2,035               |
| Purchasing Agent's Office.....                               | 7            | 859                 | 6            | 783                 |
| Penitentiaries.....                                          | 996          | 106,768             | 969          | 105,559             |
| Supreme Court.....                                           | 21           | 3,468               | 21           | 3,468               |
| Exchequer Court.....                                         | 10           | 1,743               | 10           | 1,743               |
| Totals, Justice.....                                         | 1,091        | 122,259             | 1,064        | 121,384             |

For footnotes, see end of table, p. 1137.

**18.—Total Numbers of Civil Service Employees, by Departments and Principal Branches ("Non-Enumerated Classes" Excluded), and Total Expenditures on Salaries and Wages of All Employees ("Non-Enumerated Classes" Included) March, 1933, and March, 1934—continued.**

| Department.                                                    | March, 1933. |              | March, 1934. |              |
|----------------------------------------------------------------|--------------|--------------|--------------|--------------|
|                                                                | No.          | Expenditure. | No.          | Expenditure. |
|                                                                |              | \$           |              | \$           |
| 18. Labour—                                                    |              |              |              |              |
| Main Department.....                                           | 109          | 15,936       | 94           | 14,374       |
| Annuities.....                                                 | 18           | 2,448        | 20           | 2,628        |
| Technical Education.....                                       | 2            | 339          | 2            | 339          |
| Dominion Unemployment Relief.....                              | 41           | 4,783        | 48           | 5,528        |
| Totals, Labour.....                                            | 170          | 23,506       | 164          | 22,869       |
| 19. Library of Parliament.....                                 | 25           | 4,383        | 25           | 4,395        |
| 20. Marine—                                                    |              |              |              |              |
| Main Department.....                                           | 3,198        | 333,877      | 3,034        | 295,353      |
| Meteorological Branch.....                                     | 569          | 17,282       | 494          | 16,425       |
| Totals, Marine.....                                            | 3,767        | 351,159      | 3,528        | 311,778      |
| 21. Mines.....                                                 | 373          | 61,637       | 354          | 60,113       |
| 22. National Defence—                                          |              |              |              |              |
| General Defence Administration.....                            | 282          | 37,140       | 163          | 20,969       |
| Militia Services.....                                          | 546          | 45,482       | 532          | 43,671       |
| Naval Services.....                                            | 160          | 32,520       | 154          | 26,578       |
| Air Services.....                                              | 109          | 12,135       | 112          | 12,470       |
| Military Topographic Surveys.....                              | 23           | 4,073        | 21           | 3,975        |
| Royal Military College.....                                    | 81           | 10,047       | 79           | 9,784        |
| Dominion Arsenal, Quebec, inc. Ammun. Inspection..             | 55           | 26,095       | 42           | 26,705       |
| Totals, National Defence.....                                  | 1,256        | 167,492      | 1,103        | 144,152      |
| 23. National Revenue.....                                      | 4,483        | 601,185      | 4,209        | 558,205      |
| Income Tax Division.....                                       | 1,166        | 146,522      | 1,151        | 143,235      |
| Totals, National Revenue.....                                  | 5,654        | 747,707      | 5,360        | 701,440      |
| 24. Pensions and National Health—                              |              |              |              |              |
| Pensions.....                                                  | 2,111        | 232,865      | 1,747        | 192,957      |
| Canadian Pension Commission <sup>1</sup> .....                 | 214          | 31,702       | 211          | 31,718       |
| Health.....                                                    | 284          | 39,452       | 264          | 38,122       |
| Pensions Appeal Court.....                                     | 11           | 2,583        | 14           | 3,270        |
| Pensions Tribunal.....                                         | 91           | 15,730       | 30           | 3,852        |
| Totals, Pensions and National Health.....                      | 2,711        | 322,332      | 2,266        | 269,919      |
| 25. Post Office—                                               |              |              |              |              |
| Civil Government.....                                          | 908          | 107,839      | 844          | 99,402       |
| Outside Service.....                                           | 10,232       | 2,385,189    | 9,998        | 4,277,338    |
| Totals, Post Office.....                                       | 11,140       | 2,493,028    | 10,842       | 4,376,740    |
| 26. Privy Council.....                                         | 18           | 3,588        | 19           | 3,813        |
| 27. Public Printing and Stationery.....                        | 692          | 97,923       | 601          | 87,123       |
| 28. Public Works—                                              |              |              |              |              |
| Civil Government.....                                          | 319          | 49,748       | 244          | 39,736       |
| Outside Service.....                                           | 3,067        | 312,508      | 2,951        | 289,415      |
| Government Telegraph Service.....                              | 408          | 27,850       | 399          | 28,421       |
| Totals, Public Works.....                                      | 3,794        | 390,106      | 3,594        | 327,572      |
| 29. Railways and Canals.....                                   | 1,055        | 219,228      | 909          | 171,365      |
| Board of Railway Commissioners.....                            | 97           | 20,675       | 89           | 17,840       |
| 30. Royal Canadian Mounted Police.....                         | 200          | 218,663      | 161          | 214,457      |
| 31. Secretary of State (including Patents and Copyrights)..... | 212          | 26,289       | 196          | 24,471       |
| 32. Senate.....                                                | 129          | 14,290       | 134          | 14,869       |
| 33. Soldier Settlement Board.....                              | 370          | 52,955       | 343          | 48,778       |

For footnotes, see end of table, p. 1137.



**18.—Total Numbers of Civil Service Employees, by Departments and Principal Branches ("Non-Enumerated Classes" Excluded), and Total Expenditures on Salaries and Wages of all Employees ("Non-Enumerated Classes" Included), March, 1933, and March, 1934—concluded.**

| Department.                                  | March, 1933.  |                  | March, 1934.  |                  |
|----------------------------------------------|---------------|------------------|---------------|------------------|
|                                              | No.           | Expenditure.     | No.           | Expenditure.     |
| <b>34. Trade and Commerce—</b>               |               | \$               |               | \$               |
| Headquarters and Miscellaneous Branches..... | 65            | 9,999            | 69            | 10,168           |
| Board of Grain Commissioners.....            | 812           | 107,736          | 698           | 99,413           |
| Dominion Bureau of Statistics.....           | 545           | 50,562           | 533           | 49,428           |
| National Research Council.....               | 132           | 22,954           | 126           | 15,936           |
| Weights and Measures.....                    | 123           | 17,384           | 113           | 22,285           |
| Electricity and Gas.....                     | 98            | 15,277           | 95            | 14,792           |
| Commercial Intelligence Service.....         | 98            | 42,929           | 98            | 40,766           |
| Motion Picture Bureau.....                   | 24            | 3,324            | 23            | 3,189            |
| Exhibitions.....                             | 24            | 6,868            | 17            | 5,106            |
| Canadian Government Elevators.....           | 144           | 15,060           | 110           | 14,242           |
| <b>Totals, Trade and Commerce.....</b>       | <b>2,065</b>  | <b>292,093</b>   | <b>1,882</b>  | <b>275,325</b>   |
| <b>Grand Totals.....</b>                     | <b>41,911</b> | <b>6,648,595</b> | <b>40,469</b> | <b>8,256,792</b> |

<sup>1</sup>Including Commissioners and their salaries. <sup>2</sup>Including living allowance. <sup>3</sup>Salaries of A.D.C.'s are included, but not their number.

**Section 10.—Harbour Commissions: Public Harbours and Harbour Masters.**

A description of the two methods of administration of the harbours in Canada, by a Commission in the one case, and by a Harbour Master operating under the direct supervision of the Department of Marine in the other, together with a list of the harbours which are under the Commission form of administration, with the year each individual Commission was created, was given at p. 1013 of the Year Book for 1930. No legislative action having as yet resulted from the report and recommendations of Sir Alexander Gibb and partners in the year 1931, following their study of the major Canadian ports as to desirable changes in the form of administration thereof, the harbour administration remains the same as described in the above-mentioned article.

**Section 11.—Race Track Betting.**

By an amendment to Section 235 of the Criminal Code, passed in 1920, the supervision of race track betting, under the pari-mutuel system, was placed in the hands of the Minister of Agriculture. The actual supervision is carried out by officers of the Royal Canadian Mounted Police and operated for the first time during the racing season of 1921. Statistics are available from the year 1924 and are shown in Table 19 for the Dominion as a whole, while Table 20 shows the operations by provinces for the year 1933.

**19.—Race Track Betting in Canada, 1924-33.**

| Fiscal Year. | Number of Associations. | Number of Days Racing. | Amounts Wagered. | Pari-Mutuel Receipts Retained. | Prize Money. |
|--------------|-------------------------|------------------------|------------------|--------------------------------|--------------|
|              |                         |                        | \$               | \$                             | \$           |
| 1924.....    | 30                      | 354                    | 52,600,633       | 3,496,891                      | 2,023,665    |
| 1925.....    | 33                      | 344                    | 49,867,765       | 3,359,708                      | 1,925,735    |
| 1926.....    | 32                      | 322                    | 44,346,672       | 3,018,358                      | 1,807,780    |
| 1927.....    | 31                      | 354                    | 47,915,828       | 3,278,179                      | 2,034,587    |
| 1928.....    | 32                      | 350                    | 45,960,928       | 3,154,644                      | 1,973,730    |
| 1929.....    | 30                      | 335                    | 45,580,845       | 3,104,456                      | 1,886,800    |
| 1930.....    | 30                      | 332                    | 36,007,146       | 2,657,059                      | 1,802,095    |
| 1931.....    | 30                      | 326                    | 33,377,786       | 2,379,558                      | 1,564,945    |
| 1932.....    | 29                      | 315                    | 28,695,438       | 2,066,672                      | 1,285,563    |
| 1933.....    | 28                      | 324                    | 25,137,598       | 1,831,411                      | 1,147,871    |

## 20.—Race Track Betting in Canada, by Provinces, 1933.

| Province.             | Number<br>of<br>Associ-<br>ations. | Number<br>of<br>Days<br>Racing. | Amounts<br>Wagered. | Pari-<br>Mutuel<br>Receipts<br>Retained. | Prize<br>Money.  |
|-----------------------|------------------------------------|---------------------------------|---------------------|------------------------------------------|------------------|
|                       |                                    |                                 | \$                  | \$                                       | \$               |
| Quebec.....           | 5                                  | 70                              | 2,947,858           | 219,246                                  | 199,300          |
| Ontario.....          | 9                                  | 119                             | 16,300,670          | 1,171,858                                | 632,200          |
| Manitoba.....         | 2                                  | 28                              | 2,076,708           | 155,944                                  | 103,500          |
| Saskatchewan.....     | 2                                  | 14                              | 384,794             | 29,258                                   | 24,700           |
| Alberta.....          | 5                                  | 31                              | 973,387             | 71,962                                   | 61,280           |
| British Columbia..... | 5                                  | 62                              | 2,454,181           | 183,143                                  | 126,891          |
| <b>Totals.....</b>    | <b>28</b>                          | <b>324</b>                      | <b>25,137,598</b>   | <b>1,831,411</b>                         | <b>1,147,871</b> |

## Section 12.—The Advisory Board on Tariff and Taxation.

The Tariff Board was constituted by Act of Parliament in 1931 (Chapter 55, 21-22 Geo. V.). It consists of three members, namely: Chairman, Vice-Chairman and Member, and a Secretary, all appointed by the Governor in Council. The present incumbents are the Honourable George H. Sedgewick, K.C., Chairman, Mr. Milton N. Campbell, Vice-Chairman, and Mr. Charles P. Hébert, Member. Mr. Hector B. McKinnon is Acting Secretary. The personnel of the Board was appointed in February, 1933. The first public sitting was held in July, 1933.

The constitution and duties of the Board are defined in two parts of the Act of 1931.

Under Part I, the Board makes inquiry into and reports upon any matter on which the Minister of Finance desires information, in relation to any goods which, if brought into Canada or produced in Canada, are subject to or exempt from duties of customs or excise. The investigation into any such matter may include inquiry as to the effect which an increase or decrease of the existing rate of duty upon a given commodity might have upon industry or trade, and the extent to which the consumer is protected from exploitation.

It is also the duty of the Board to inquire into any other matter or thing in relation to the trade or commerce of Canada which the Governor in Council sees fit to refer to the Board for inquiry and report.

In accordance with the provisions of Articles 10 to 15 of the United Kingdom-Canada Trade Agreement, His Majesty's Government in Canada has undertaken that, on the request of His Majesty's Government in the United Kingdom, it will cause a review, in accordance with the principle laid down in Article 11 of the Agreement, to be made by the Tariff Board of the duties charged on any commodities specified in such request.

The principle laid down in Article 11 of the Agreement is that protective duties shall not exceed such level as will give United Kingdom producers full opportunity of reasonable competition on the basis of relative cost of economical and efficient production, provided that, in the application of such principle, special consideration shall be given to the case of industries not fully established.

The Act provides that reports shall be made to the Minister of Finance and tabled in the House of Commons by him. To Mar. 31, 1935, the Board has reported on thirty-eight references. The principal commodities reported on were wool textiles; boots and shoes; jute yarns and twines; fruits and vegetables; hookless

fasteners (zippers); wooden doors; silver-bearing articles (toiletware); dextrines; rabbit skins; brass, copper and nickel-silver commodities; boiler tubes; skelp; cocoa mats and matting.

Part II of the Act empowers the Board to hear and decide appeals from rulings made by the Department of National Revenue with respect to fair market value of goods for duty purposes, erroneous appraisals, and the rate of duty applicable to any class of goods. Findings of the Board on Appeals are published in the *Canada Gazette*. To Mar. 31, 1935, forty-four Appeals have been registered. Decisions by the Board have been made for thirty-one. Nine were withdrawn after registration. For three the Appellants are not ready to proceed with hearing; one is awaiting decision of the Board.

### Section 13.—Liquor Control in Canada.

During the years 1916 and 1917, as a war policy, legislation prohibiting the sale of alcoholic liquors, except for medicinal and scientific purposes, was passed in all the provinces except Quebec, where similar legislation was passed in 1919. The prohibition extended to the sale of beer and wine except in Quebec. Native wine, however, could be sold in Ontario.

In aid of provincial legislation prohibiting or restricting the sale of intoxicating liquors, the Dominion Government in 1916 passed a law making it an offence to send intoxicating liquors into any province to be dealt in contrary to the law of that province. In 1919 this Act was changed to read that "on the request of the Legislative Assembly of a province a vote would be taken on the question that the importation and the bringing of intoxicating liquors into such province be forbidden". If the majority of those voting were found to be in favour of such prohibition, the Governor in Council was to declare it in force.

After the War the provinces continued under prohibition for varying periods. Plebiscites were taken from time to time to ascertain the will of the electorate as to whether the policy of prohibition, adopted as an emergency war measure, should be continued. During 1921 Quebec and British Columbia discarded the existing prohibition laws and adopted the policy of liquor sale under government control. The same course was followed by Manitoba in 1923, Alberta in 1924, Saskatchewan in 1925, Ontario and New Brunswick in 1927 and Nova Scotia in 1930. Thus Prince Edward Island is the only province still adhering to a policy of prohibition.

The provincial Liquor Control Acts have been framed to conform to conditions peculiar to the regions where they are in force and no two are exactly alike. The salient feature of all is the establishment of a provincial monopoly of the retail sale of alcoholic beverages, with the practical elimination of private profit therefrom. Partial exception is made in the retail sale of malt liquor by brewers, which certain provinces permit while reserving regulative rights and taxing such sales heavily. In all the provinces, however, spirits may be bought only at government liquor stores. The provincial monopoly extends only to the retail sale of alcoholic beverages, the manufacture being still in private hands but under the supervision of the Liquor Boards or Commissions. The original Liquor Control Acts have been modified from time to time as deemed advisable. Brief summaries of the legislation are given in the Bureau's Annual Report on the Control and Sale of Liquor.

# 21.—Gross Sales and Net Profits of Liquor Control Boards, Additional Revenues Paid Directly to Governments, and Total Net Revenue from Liquor Control, 1931-33.

NOTE.—For Quebec, Manitoba and Alberta gross sales do not include beer sold direct by the brewers to the licensees.

| Province.                                      | Year. | Receipts by Liquor Control Boards or Commissions. |                |                        | Additional Amounts for Permits, etc., Paid Direct to Provincial Governments. | Total Net Revenue from Liquor Control. |
|------------------------------------------------|-------|---------------------------------------------------|----------------|------------------------|------------------------------------------------------------------------------|----------------------------------------|
|                                                |       | Gross Sales.                                      | Other Revenue. | Net Profits.           |                                                                              |                                        |
|                                                |       | \$                                                | \$             | \$                     | \$                                                                           | \$                                     |
| Nova Scotia—year ended Sept. 30...             | 1931  | 4,958,232                                         | 38,737         | 728,941                | 23,870                                                                       | 752,811                                |
|                                                | 1932  | 3,767,109                                         | 55,213         | 492,701                | 32,292                                                                       | 524,993                                |
|                                                | 1933  | 2,808,728                                         | 8,392          | 286,681                | 24,580                                                                       | 311,261                                |
| New Brunswick—year ended Oct. 31.              | 1931  | 3,763,800                                         | 28,145         | 1,220,065              | —                                                                            | 1,220,065                              |
|                                                | 1932  | 2,794,171                                         | 31,168         | 861,540                | —                                                                            | 861,540                                |
|                                                | 1933  | 2,176,599                                         | 25,363         | 545,253                | —                                                                            | 545,253                                |
| Quebec <sup>1</sup> —year ended April 30.....  | 1931  | 22,711,639                                        | 1,500,759      | 8,262,188              | —                                                                            | 8,262,188                              |
|                                                | 1932  | 17,979,782                                        | 1,372,653      | 6,113,899              | —                                                                            | 6,113,899                              |
|                                                | 1933  | 12,702,927                                        | 1,217,251      | 5,773,219 <sup>2</sup> | —                                                                            | 5,773,219 <sup>2</sup>                 |
| Ontario—year ended Oct. 31.....                | 1931  | 45,835,708                                        | 953,777        | 8,491,653              | 860,000                                                                      | 9,351,653                              |
|                                                | 1932  | 36,099,562                                        | 864,357        | 6,632,420              | 645,000                                                                      | 7,277,420                              |
|                                                | 1933  | 30,143,247                                        | 714,761        | 5,423,622              | 485,000                                                                      | 5,908,622                              |
| Manitoba <sup>2</sup> —year ended April 30.... | 1931  | 6,506,600                                         | 677,635        | 1,866,783              | —                                                                            | 1,866,783                              |
|                                                | 1932  | 5,399,003                                         | 599,136        | 1,490,041              | —                                                                            | 1,490,041                              |
|                                                | 1933  | 4,115,534                                         | 478,976        | 1,094,287              | —                                                                            | 1,094,287                              |
| Saskatchewan—year ended Mar. 31..              | 1931  | 9,158,433                                         | 46,834         | 1,516,246              | 20,983                                                                       | 1,537,229                              |
|                                                | 1932  | 5,774,060                                         | 28,779         | 843,417                | 29,221                                                                       | 872,638                                |
|                                                | 1933  | 4,787,266                                         | 47,809         | 864,657                | 1,800                                                                        | 866,457                                |
| Alberta <sup>2</sup> —year ended Mar. 31.....  | 1931  | 4,678,109                                         | 512,275        | 1,738,954              | 165,600                                                                      | 1,904,554                              |
|                                                | 1932  | 3,571,279                                         | 431,145        | 1,305,541              | 127,694                                                                      | 1,433,235                              |
|                                                | 1933  | 2,929,946                                         | 486,766        | 1,319,140              | 103,583                                                                      | 1,422,723                              |
| British Columbia—year ended Mar. 31.....       | 1931  | 14,735,423                                        | 246,545        | 4,022,705              | 167,859                                                                      | 4,190,564                              |
|                                                | 1932  | 11,753,942                                        | 203,299        | 3,293,239              | 128,622                                                                      | 3,421,861                              |
|                                                | 1933  | 8,607,317                                         | 183,225        | 3,224,873              | 96,862                                                                       | 3,321,735                              |

<sup>1</sup>Separate figures on beer are published by the Quebec Liquor Commission, as follows:—

| Fiscal Year. | Beer Manufactured and Sold within the Province. |            | Beer Imported from Ontario. |           | Beer Exported from the Province. |           | Tax of 5 p. c. on Gross Sales Paid to Liquor Commission. |
|--------------|-------------------------------------------------|------------|-----------------------------|-----------|----------------------------------|-----------|----------------------------------------------------------|
|              | Gallons.                                        | \$         | Gallons.                    | \$        | Gallons.                         | \$        |                                                          |
| 1931.....    | 27,668,675                                      | 20,934,014 | 1,299,421                   | 1,024,311 | 1,652,263                        | 1,287,590 | 1,162,296                                                |
| 1932.....    | 24,420,391                                      | 18,377,182 | 1,476,473                   | 1,149,008 | 1,556,906                        | 1,199,510 | 1,036,285                                                |
| 1933.....    | 18,734,987                                      | 14,176,446 | 1,396,231                   | 1,090,417 | 1,319,541                        | 1,128,729 | 819,780                                                  |

<sup>2</sup>In Manitoba and Alberta the value of beer sales is not given but the beer taxes paid to the Boards are tabulated below. In this connection it should be noted that the Board also pays the beer tax on its purchases from the brewers and the beer sales of the Board are included in the total gross sales shown above.

| Fiscal Year. | Manitoba. |              | Alberta. |  |
|--------------|-----------|--------------|----------|--|
|              | Tax.      | Accrued Tax. | Tax.     |  |
|              | \$        | \$           | \$       |  |
| 1931.....    | 357,732   | 58,074       | 440,184  |  |
| 1932.....    | 306,169   | 49,284       | 355,452  |  |
| 1933.....    | 281,107   | 39,376       | 398,729  |  |

<sup>3</sup>Includes \$1,500,000 transferred from the reserves.



**Sales by Liquor Control Boards.**—Data on gross sales, other revenue and net profits of the Provincial Liquor Boards, are tabulated in Table 21. In connection with the figures on gross sales it is essential to note that for Quebec, Manitoba and Alberta, the sales of beer made directly by the brewers to the licensees are not included. The proceeds from such sales do not pass through the Boards, but the purchasers must pay through the brewers to the Boards a tax equal to 5 p.c. of the purchases in the case of Quebec, 12½ cents per gallon in Manitoba, and 15½ cents per gallon in Alberta. For the latter two provinces it is possible to calculate from the taxes the gallonage of beer sold but the corresponding values are not available. For Quebec the quantity and value of sales are published by the Liquor Commission, as shown in the footnote to the table.

Further, it should be pointed out that the values as given for Quebec, Manitoba, Alberta and British Columbia do not represent the sales values to the final consumers, as in these provinces the sale of beer by the glass is permissible. Of course, all the liquor sold in any province is not consumed within the province. The tourist traffic is a very important factor in this connection.

All the revenue resulting from the Liquor Control Acts is not paid to the Liquor Boards. In certain provinces, permit fees are paid directly to the governments and do not pass through the Board. Table 21 further indicates the total revenue accruing to the governments through the control of liquor sales.

The reports of the Boards do not in all cases show the quantities of liquors sold; in comparing values for a series of years or between provinces it should be borne in mind that price variations may be an important factor.

**Apparent Consumption of Liquor in Canada.**—It is not possible to obtain accurate figures on Canadian consumption of liquor. Except in Nova Scotia, Quebec, Ontario and Alberta, the Liquor Boards do not publish figures to show sales on a gallonage basis, and even were such data on quantity sales available for all provinces they would not necessarily represent Canadian consumption. For example, our great tourist traffic must be considered, since it is likely that the quantities carried away by individual tourists would reach a considerable amount. Further, there is no definite information regarding the illegal traffic in liquor, though inquiry has revealed that such illicit business has reached fairly large proportions.

In Tables 22, 23 and 24 an attempt has been made to indicate separately the apparent consumption in Canada of spirits, malt liquors and wines. Obviously, these computations are subject to error for the reasons mentioned above, and also because no consideration has been given to increases or decreases in the quantities held in stock by the Boards or by licensees. For example, owing to exceptionally favourable conditions abroad, the Liquor Boards may in certain years buy heavily to replenish stocks or create reserves; such purchases would unduly weight the apparent consumption figure for these years. The figures in these tables have been arrived at as follows:—

*Spirits.*—Practically the total production of spirits is placed in bonded warehouses whence it is released for various purposes. The quantities shown as “entered for consumption” are released from warehouse, duty paid, presumably for consumption for beverage purposes in Canada. However, part of these may be exported. The supply of spirits available in Canada for home consumption or for export must be the sum of the quantities shown under (a) entered for consumption; (b) im-

ports; and (c) exports in bond, and if the total domestic exports and re-exports of imported goods are deducted from this figure the remainder indicates the apparent consumption in Canada.

*Malt Liquors.*—Only a small part of the output of malt liquors is placed in warehouses. The available supply is, therefore, made up of (a) production; (b) changes in warehouse stock; and (c) imports, and by deducting the domestic exports and re-exports of imported goods from this total supply, it is possible to obtain a figure to show the apparent consumption in Canada.

*Wines.*—The apparent consumption of native wine is obtained by dividing the rates of excise tax into the total tax collections. This is believed to furnish a better measure of consumption than the method formerly used, *i.e.*, to subtract the exports from the production, since part of the product is not consumed in the year of production but is placed in storage for maturing. The apparent consumption of imported wines is arrived at by deducting from the imports into Canada, the re-exports of foreign supplies.

## 22.—Apparent Consumption of Spirits in Canada, fiscal years ended Mar. 31, 1922-34

| Fiscal Year. | Entered for Consumption. <sup>1</sup> | Add Exports in Bond. | Add Imports. | Deduct Re-exports of Imported Spirits. <sup>1</sup> | Deduct Total Domestic Exports. <sup>1</sup> | Apparent Consumption. |
|--------------|---------------------------------------|----------------------|--------------|-----------------------------------------------------|---------------------------------------------|-----------------------|
|              | Pf. Gal.                              | Pf. Gal.             | Pf. Gal.     | Pf. Gal.                                            | Pf. Gal.                                    | Pf. Gal.              |
| 1922.....    | 730,474                               | 192,327              | 1,348,603    | 24,373                                              | 158,714                                     | 2,088,317             |
| 1923.....    | 729,678                               | 315,213              | 1,193,123    | 67,283                                              | 330,820                                     | 1,839,911             |
| 1924.....    | 899,291                               | 875,699              | 1,261,541    | 29,329                                              | 991,563                                     | 2,015,639             |
| 1925.....    | 910,316                               | 803,535              | 1,161,169    | 10,978                                              | 1,008,583                                   | 1,855,459             |
| 1926.....    | 1,082,785                             | 499,007              | 1,410,637    | 15,958                                              | 1,087,553                                   | 1,888,918             |
| 1927.....    | 1,404,111                             | 571,792              | 1,587,475    | 107,282                                             | 1,266,692                                   | 2,189,404             |
| 1928.....    | 1,896,357                             | 579,420              | 2,374,885    | 185,630                                             | 1,460,871                                   | 3,204,161             |
| 1929.....    | 2,016,802                             | 1,143,276            | 2,604,769    | 183,889                                             | 1,911,634                                   | 3,669,324             |
| 1930.....    | 1,926,063                             | 1,810,197            | 2,446,800    | 128,612                                             | 2,379,855                                   | 3,674,590             |
| 1931.....    | 1,180,536                             | 2,558,327            | 1,990,574    | 19,694                                              | 2,630,808                                   | 3,078,938             |
| 1932.....    | 781,612                               | 2,276,137            | 1,421,214    | 83                                                  | 2,616,886                                   | 2,461,994             |
| 1933.....    | 769,527                               | 1,991,994            | 732,306      | 45                                                  | 1,996,113                                   | 1,497,669             |
| 1934.....    | 933,946                               | 2,478,975            | 718,016      | 478                                                 | 2,546,196                                   | 1,584,263             |

<sup>1</sup> Prior to 1933 export figures as given in the trade returns were in Imperial gallons. These were converted to proof gallons as follows: Canadian manufacture at 20 under proof; foreign origin at 25 under proof.

## 23.—Apparent Consumption of Malt Liquors, fiscal years ended Mar. 31, 1922-34.

| Fiscal Year. | Production. | Add Quantities Entered For Consumption from Warehouses. | Add Imports. | Deduct Quantities placed in Warehouses. | Deduct Exports (Domestic). | Deduct Re-exports of Imported Goods. | Apparent Consumption. |
|--------------|-------------|---------------------------------------------------------|--------------|-----------------------------------------|----------------------------|--------------------------------------|-----------------------|
|              | Gal.        | Gal.                                                    | Gal.         | Gal.                                    | Gal.                       | Gal.                                 | Gal.                  |
| 1922.....    | 38,541,746  | 1,764                                                   | 49,160       | 97,578                                  | 472,735                    | 119                                  | 38,022,238            |
| 1923.....    | 36,902,066  | 2,702                                                   | 54,241       | 10,800                                  | 1,509,763                  | 1,756                                | 35,436,690            |
| 1924.....    | 44,080,490  | 9,789                                                   | 96,647       | 172,674                                 | 3,192,491                  | 4,326                                | 40,817,435            |
| 1925.....    | 48,389,995  | 209,398                                                 | 91,928       | 363,548                                 | 3,142,048                  | -                                    | 45,185,725            |
| 1926.....    | 52,448,853  | 344,641                                                 | 152,255      | 394,989                                 | 3,786,164                  | -                                    | 48,764,596            |
| 1927.....    | 51,755,840  | 1,291,954                                               | 153,105      | 1,292,087                               | 4,252,583                  | 12                                   | 47,656,217            |
| 1928.....    | 58,397,913  | 1,343,986                                               | 234,701      | 1,325,630                               | 3,825,003                  | 388                                  | 54,825,579            |
| 1929.....    | 65,837,410  | 1,712,615                                               | 242,100      | 1,812,444                               | 4,110,698                  | 634                                  | 61,868,349            |
| 1930.....    | 63,450,516  | 1,738,663                                               | 259,003      | 1,864,625                               | 4,481,215                  | 2,117                                | 62,100,225            |
| 1931.....    | 59,073,685  | 1,831,625                                               | 230,995      | 1,832,803                               | 270,102                    | 4,366                                | 59,029,034            |
| 1932.....    | 62,297,431  | 1,977,892                                               | 195,664      | 2,020,540                               | 25,458                     | -                                    | 52,424,989            |
| 1933.....    | 40,664,625  | 1,491,735                                               | 106,587      | 1,412,309                               | 35,667                     | -                                    | 40,814,971            |
| 1934.....    | 40,920,623  | 974,161                                                 | 93,602       | 1,324,494                               | 404,939                    | -                                    | 40,268,953            |

**24.—Apparent Consumption of Wines in Canada, fiscal years ended Mar. 31, 1922-34.**

| Fiscal Year. | Native.<br>Apparent<br>Consump-<br>tion<br>(Estimated<br>from<br>Excise Tax<br>Collections). | Imported. |                         |                               | Apparent<br>Consump-<br>tion,<br>Native<br>and<br>Imported. |
|--------------|----------------------------------------------------------------------------------------------|-----------|-------------------------|-------------------------------|-------------------------------------------------------------|
|              |                                                                                              | Imports.  | Less<br>Re-<br>Exports. | Apparent<br>Consump-<br>tion. |                                                             |
|              | Gal.                                                                                         | Gal.      | Gal.                    | Gal.                          | Gal.                                                        |
| 1922.....    | 409,813                                                                                      | 384,211   | 797                     | 383,414                       | 793,327                                                     |
| 1923.....    | 528,355                                                                                      | 359,273   | 2,663                   | 356,610                       | 884,965                                                     |
| 1924.....    | 922,715                                                                                      | 598,125   | 540                     | 597,585                       | 1,520,300                                                   |
| 1925.....    | 806,846                                                                                      | 706,717   | 753                     | 705,964                       | 1,512,810                                                   |
| 1926.....    | 1,182,775                                                                                    | 736,311   | 1,962                   | 734,349                       | 1,917,124                                                   |
| 1927.....    | 1,482,686                                                                                    | 901,857   | 19,321                  | 882,536                       | 2,365,222                                                   |
| 1928.....    | 2,171,887                                                                                    | 1,263,438 | 132,748                 | 1,130,690                     | 3,302,577                                                   |
| 1929.....    | 2,770,117                                                                                    | 1,334,792 | 195,227                 | 1,139,565                     | 3,909,682                                                   |
| 1930.....    | 3,920,261                                                                                    | 1,365,321 | 150,056                 | 1,215,265                     | 5,135,526                                                   |
| 1931.....    | 3,408,973                                                                                    | 1,089,897 | 18,573                  | 1,071,324                     | 4,480,297                                                   |
| 1932.....    | 3,337,556                                                                                    | 900,317   | 76                      | 900,241                       | 4,237,797                                                   |
| 1933.....    | 2,478,387                                                                                    | 684,082   | 45                      | 684,127                       | 3,162,514                                                   |
| 1934.....    | 2,679,619                                                                                    | 532,984   | 5,783                   | 538,767                       | 3,218,386                                                   |

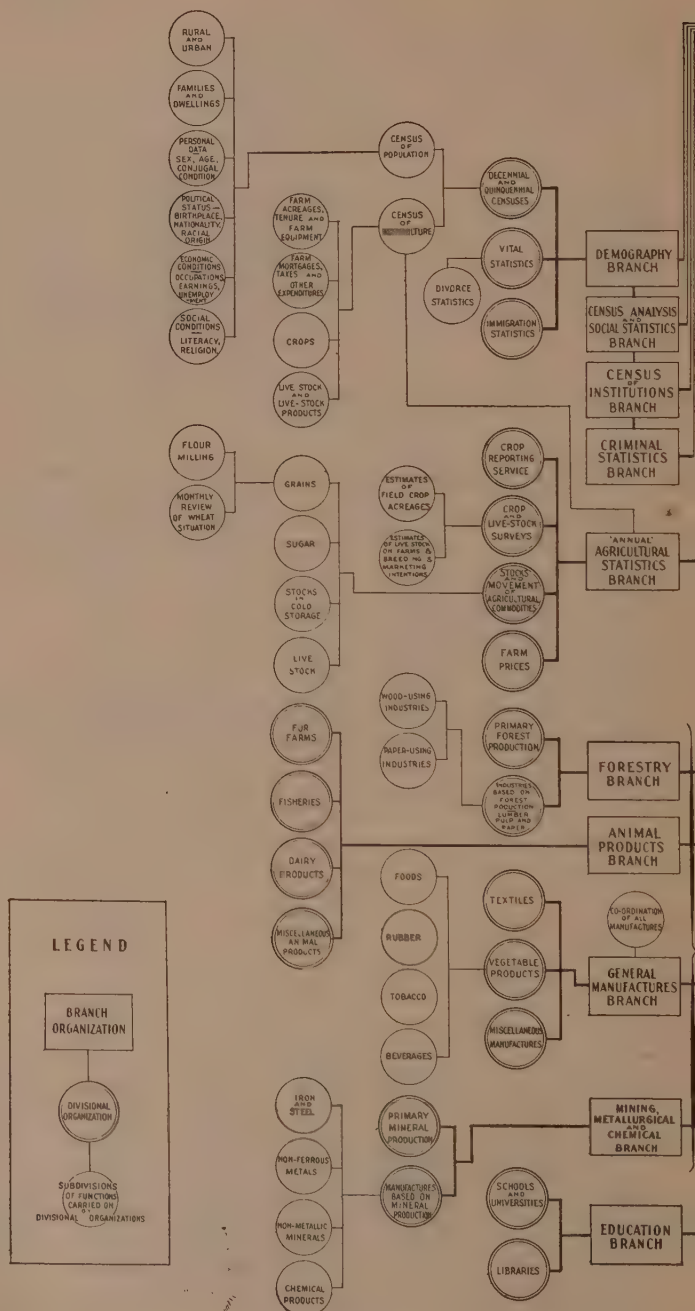
**Section 14.—Other Miscellaneous Administration.**

In previous editions of the Canada Year Book this chapter has been brought to a close with outlines of Dominion Government administration as follows:—

The International Joint Commission.  
The Geodetic Survey of Canada.  
The Topographical Survey.  
The Dominion Observatories.

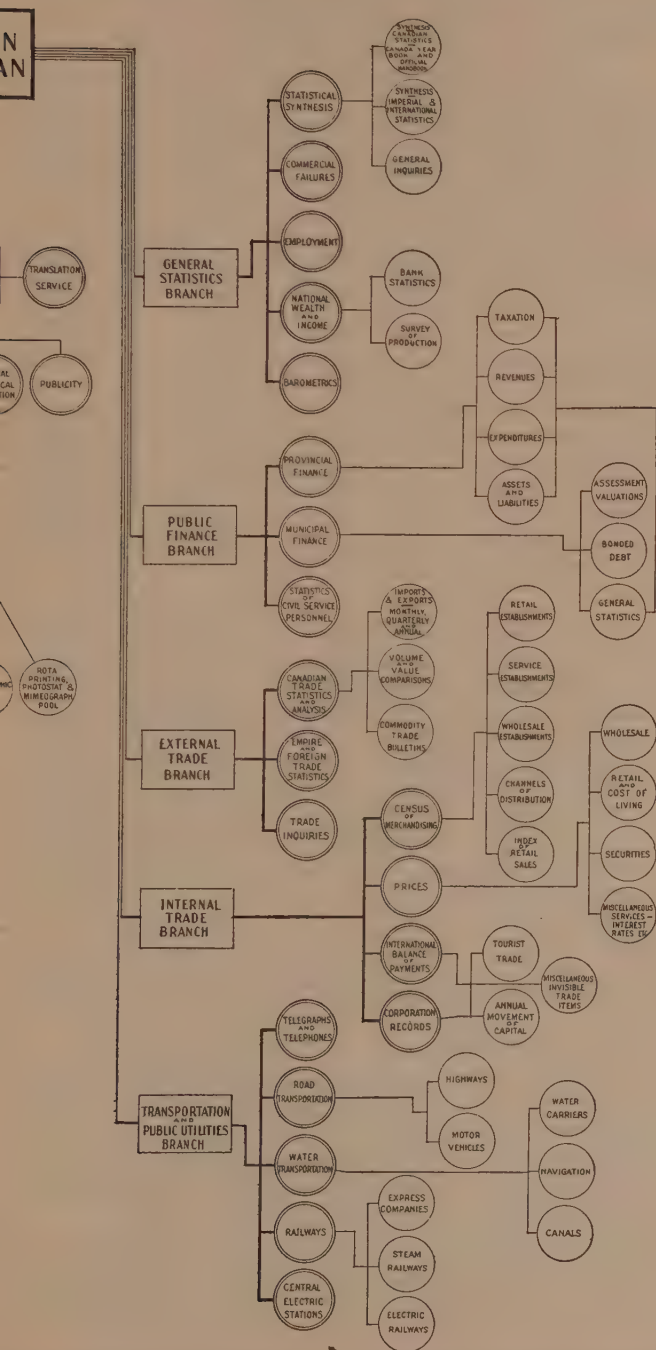
No material change has taken place in the functions of these organizations and the reader is referred to pp. 1014-1017 of the 1930 Year Book for this information.

# ORGANIZATION CHART OF THE





# ON BUREAU OF STATISTICS



## CHAPTER XXIX.—SOURCES OF OFFICIAL STATISTICAL AND OTHER INFORMATION RELATIVE TO CANADA.

The chief source of information on the current state of the country is the Dominion Bureau of Statistics, organized as the central statistical bureau for Canada, and described in the first part of this chapter; a list of its publications, which cover almost the whole field of the national statistics, is given in Section 1.

The second section of the chapter contains a list of the Acts of Parliament administered by the several departments of the Dominion Government, and the third section a bibliography of the publications of these departments. This is followed, in Section 4, by a bibliography of the publications of Provincial Governments.

### Section 1.—The Dominion Bureau of Statistics.\*

The Dominion Bureau of Statistics was set up by statute in 1918 as a central statistical department for Canada (8-9 Geo. V, c. 43)†. The Act was a consolidation of all previous statistical legislation and was based on the report of a Commission on Statistics, appointed in 1912, which recommended (a) a series of specific reforms and enlargements in Canadian statistics, and (b) a policy of statistical co-ordination for the Dominion, under central direction. In 1915, following the recommendations in this report, the office of Dominion Statistician was created.

The Bureau has been constituted by the transfer or absorption, by Orders in Council, of the following work and branches: (1) the Census and Statistics Office (covering the census, and also agriculture, general manufactures and criminal statistics), (2) Fisheries Statistics, (3) Mining Statistics, (4) Forestry Statistics, (5) Dairying and Fruit Statistics, (6) Water- and Electric-Power Statistics, (7) the Railways and Canals Statistical Branch of the Department of Railways and Canals, (8) the Trade Statistical Branch (exports and imports), (9) Grain Trade Statistics, (10) Live-Stock Statistics, (11) Prices Statistics, and (12) Employment Statistics. In addition four new branches were created, dealing respectively with Public Finance, Internal Trade, Vital Statistics, and Education. Subsequently the statistical activities of the Fuel Controller and the Board of Commerce were absorbed. Modifications of the Bankruptcy, Public Health and Railway Acts, and of the regulation *re* franking privileges were also made, with a view to facilitating the collection of statistics.

The Bureau has completed the plans for a unified, nation-wide statistical system, covering every important phase of social and economic activity, and has carried them out to a considerable degree.

The main achievement of the Bureau has been in the organization of the several subjects in correlation with each other in accordance with this general plan, and the consequent establishment of a comprehensive viewpoint of the country as a "going concern". In addition, there has been created what is frequently called a central "thinking office" in statistics, continuously in touch with general conditions and the line of probable developments.

\*A more complete account of the formation and activities of the Bureau of Statistics will be found on pp. 961-964 of the 1922-23 Year Book.

† Consolidated as the Statistics Act (c. 190, R.S.C., 1927).

The final concept in the organization of the Bureau of Statistics is that of a national laboratory for social and economic research. Statistics are not merely a record of what has been, but are for use in planning what shall be; it is the duty of a statistical bureau to assist directly in the day-to-day problems of administration, as well as to provide their theoretic background. One of the most significant of recent developments in administration is the extent to which statistical organization has been increased as a guide to national policy. Though its usefulness has only begun, the Dominion Bureau of Statistics has laid the foundations for a service comparable with the increasingly important position taken by Canada in the economic and political world.

**Publications of the Bureau.**—The first annual report of the Dominion Statistician contained a full description of the organization of the Bureau and of its subject matter.\* The main Branches of the Bureau are as follows: I. Administration; II. Population—Census and Vital Statistics; III. Agricultural Statistics; IV. Fisheries, Furs, Animal and Dairy Products; V. Mining, Metallurgical and Chemical; VI. Forestry and Allied Industries; VII. General Manufactures; VIII. External Trade (Imports and Exports); IX. Internal Trade; X. Transportation; XI. Financial Statistics; XII. Statistics of Administration of Justice; XIII. Education Statistics; XIV. General Statistics. The publications of the several Branches are as follows:—

## ADMINISTRATION—

Annual Report of the Dominion Statistician. *Price 10 cents.*

## POPULATION—

### Census—

#### I. CENSUS OF POPULATION AND AGRICULTURE, 1931.

*Bulletins of the Seventh Census of Canada, 1931, as follows:—*

- (1) POPULATION:—*Preliminary Bulletins.*—(1) to (3) Cities, Towns and Villages. (4) Ontario Villages. (5) Montreal Island. (6) Cities, Towns and Villages. (7) Villages of Manitoba, Saskatchewan and Alberta. (8) Villages of Quebec. (9) Cities, Towns and Villages. (10) Maritime Provinces by Federal Electoral Districts. (11) Ontario by Federal Electoral Districts. (12) Prairie Provinces by Federal Electoral Districts. (13) Quebec by Federal Electoral Districts. (14) British Columbia by Federal Electoral Districts; Yukon and Northwest Territories. (15) Canada by Provinces. (16) Cities replacing Census Bulletins 1, 2, 3, 5 and 6. (17) Towns replacing Bulletins 1, 2, 3, 5, 6 and 9. *Final Bulletins.*—(I) New Brunswick. (II) Nova Scotia. (III) Manitoba. (IV) Canada by Provinces. (V) Saskatchewan. (VI) Alberta. (VII) Quebec. (VIII) Ontario. (IX) British Columbia. (X) Prince Edward Island. (XI) Rural and Urban Population. (XII) Yukon and Northwest Territories. (XIII) Cities, Towns and Villages in Canada, by Provinces. (XIV) Religions, by Provinces. (XV) Birthplaces, by Provinces. (XVI) Ages, by Provinces. (XVII) Conjugal Condition, by Provinces. (XVIII) School Attendance and Literacy, by Provinces. (XIX) Radio Sets in Canada, 1931. (XX) Population of Canada, 1931, by Provinces, Electoral Districts and Subdistricts. (XXI) Population of Canada, 1931, by Religious Denominations. (XXII) Population of Canada, 1931, by Racial Origins. (XXIII) Immigrants by Years of Arrival in Canada. (XXV) Number and Percentage of Single, Married, Widowed or Divorced of the Total Population, by Sex and Provinces, 1911, 1921, and 1931. (XXVI) Age Distribution by Single Years of Age for Canada, by Provinces, 1931. (XXVII) Immigrant Population Classified by Sex, Country of Birth, Province of Residence, Years of Arrival in Canada and Citizenship of the Foreign Born, 1931. (XXVIII) Gainfully Employed Ten Years of Age and Over Classified According to Occupation and Sex for Cities of 30,000 and Over, 1931. (XXIX) Birthplace of the Population Classified According to Nativity of Parents for Canada and Provinces, 1931. (XXX) Canadians and Other Nationals. (XXXI) Gainfully Employed Ten Years of Age and Over for Canada and Provinces, 1931. (XXXII) Literacy, Language Spoken, and Conjugal Condition of the Population Ten Years of Age and Over, 1931. (XXXIII) Earnings Among Wage-Earners for Canada and Provinces, 1931.

\*This report for the year ended Mar. 31, 1919, is now out of print.



## POPULATION—continued.

## Census—

## I. CENSUS OF POPULATION AND AGRICULTURE 1931—continued.

*Bulletins of the Seventh Census.*—continued.

- (XXXIV) Ages of the Gainfully Employed Ten Years of Age and Over for Canada and Provinces, 1931. (XXXV) Religious Denominations by Racial Origins, 1931. (XXXVI) Gainfully Employed Ten Years of Age and Over by Industry and Sex for Canada and the Provinces and for Cities of 30,000 and Over, 1931. (XXXVII) Age Distribution by Five-Year Age Groups for Cities, Towns and Villages of 5,000 Population and Over, 1931. (XXXVIII) Population of the Municipal Wards of Montreal City by Quinquennial Age-Groups, Conjugal Condition, Birthplace, Racial Origin, Religion, School Attendance and Literacy, by Sex, 1931. (XXXIX) Houses and Dwellings. (XL) Population of the Municipal Wards of the Cities of Toronto, Vancouver, Winnipeg, Hamilton, Quebec and Ottawa by Quinquennial Age Groups, Conjugal Condition, Birthplace, Racial Origin, Religion, School Attendance and Literacy, by Sex, Census of 1931. (XLI) Orientals, Ten Years of Age and Over, Gainfully Employed by Race, Occupation and Sex in British Columbia, 1931. (XLII) Persons Speaking Gaelic. (XLIII) Blind. (XLIV) Deaf Mutes. (XLV) Racial Origins of Gainfully Occupied, Ten years of Age and Over for Canada and the Provinces. UNEMPLOYMENT AMONG WAGE-EARNERS.—(I) Saint John, N.B.; (II) Winnipeg, Man.; (III) Kitchener, Ont.; (IV) Ottawa, Ont.; (V) Vancouver, B.C.; (VI) Hamilton, Ont.; (VII) Calgary, Alta.; (VIII) Toronto, Ont.; (IX) Montreal, Que.
- (2) CENSUS OF INSTITUTIONS:—*Preliminary Bulletins.*—(1) Mental Institutions. (2) Directory of Hospitals. (3) Penitentiaries. (4) Charitable and Benevolent Institutions. (5) Reformative and Corrective Institutions. (6) Annual Report of Mental Institutions, 1932. (7) Annual Report on Hospitals, 1932. (8) Directory of Hospitals, 1933.
- (3) AGRICULTURE:—*Preliminary Bulletins.*—(1) Number of Occupied Farms, by Counties or Census Divisions, 1931 and 1921; and the Number of Vacant or Abandoned Farms, 1931. Preliminary Acreage:—(1) Prince Edward Island; (2) New Brunswick; (3) Saskatchewan; (4) Manitoba; (5) British Columbia; (6) Ontario; (7) Nova Scotia; (8) Quebec; (9) Alberta; (10) Canada. Live Stock by Counties:—(11) Prince Edward Island; (12) Nova Scotia; (13) New Brunswick; (14) Ontario Preliminary Acreage, by Counties. (15) Manitoba Live Stock, by Census Divisions. (16) New Brunswick Preliminary Acreage, by Counties. (17) Alberta Live Stock, by Census Divisions. (18) Saskatchewan Live Stock, by Census Divisions. (19) British Columbia Live Stock, by Federal Electoral Districts. (20) Quebec Live Stock, by Counties. (21) Ontario Live Stock, by Counties. Farm Holdings, by Size, for Provinces, Counties or Census Divisions. Farm Facilities, by Provinces. Total Number of Farms, Farm Tenure, Farm Acreage, Farm Values, Mortgage Debt and Farm Expenses, by Provinces. Farms Reporting Live Stock, by Kinds and Total Number of Animals Reported for Each Kind. Area and Yield of Field Crops, 1930 and 1920:—(22) Prince Edward Island; (23) Nova Scotia; (24) New Brunswick; (25) Ontario; (26) Quebec. Live Stock on Farms by Provinces. Tenure of Farm Lands, by Provinces, Counties or Census Divisions. Number of Farm Workers, Weeks and Cost of Hired Labour, 1930. Fruit Trees on Farms, by Provinces, 1931 and 1921. Vegetables:—Area in 1931 and Area, Production and Value in 1930, by Provinces. *Final Bulletins.*—ANIMAL PRODUCTS ON FARMS, BY COUNTIES:—(I) Prince Edward Island; (II) Nova Scotia; (III) New Brunswick; (IV) Manitoba; (V) Saskatchewan; (VI) Alberta; (VII) Ontario; (VIII) Quebec; (IX) British Columbia. LIVE STOCK ON FARMS, BY COUNTIES:—(X) Prince Edward Island; (XI) Nova Scotia; (XII) New Brunswick; (XIII) Manitoba; (XIV) Saskatchewan; (XV) Alberta; (XVI) British Columbia; (XVII) Ontario. (XVIII) Live Stock on Farms by Counties, Quebec. (XIX) Tenure, Farm Values, Farm Facilities and Mortgage Debt, 1931, and Farm Expenses for 1930, by Counties or Census Divisions. (XX) Stock Sold Alive, Stock Slaughtered, Young Animals Raised, 1930, and Pure-Bred Live Stock on Farms, 1931, by Counties or Census Divisions. (XXI) Pure-Bred Live Stock on Farms and Elsewhere, 1931. (XXII) Fruit Trees, 1931, Maple Products, 1931, Fruit Production and Value, 1930. (XXIII) Greenhouse and Hothouse Establishments on Farms and Elsewhere, by Provinces, 1931, 1921. (XXIV) Forest Products of Farms, by Counties or Census Divisions, 1930. (XXV) Condition of Farm Land, by Counties or Census Divisions, 1931. (XXVI) Area of Field Crops, by Counties or Census Divisions, 1931.

*Reports of the Seventh Census of Canada, 1931, as follows:—*

## POPULATION:—

Vol. II. Population by Local Subdivisions—Conjugal condition, racial origin, religion, birthplace, immigration, language, literacy, school attendance, etc. Price, Cloth \$1.50, Paper \$1.



## POPULATION—continued.

## Census—

## I. CENSUS OF POPULATION AND AGRICULTURE, 1931—concluded.

*Reports of the Seventh Census.*—continued.

- Vol. III. Ages of the People—Classified by sex, conjugal condition, racial origin, religion, birthplace, language, literacy, immigration, naturalization, etc. *Price, Cloth \$1, Paper 75 cents.*
- Vol. IV. Analysis—Cross-classified by birthplace, conjugal condition, immigration, naturalization and citizenship, racial origin, religion, language, literacy, illiteracy, school attendance. *Price, Cloth \$1, Paper 75 cents.*
- Vol. VI. Unemployment—Classified by industry, occupation, cause, age, sex, conjugal condition, period of idleness, birthplace, racial origin, immigration and year of arrival. *Price, Cloth \$1, Paper 75 cents.*

## AGRICULTURE:—

- Prince Edward Island—Farm population, areas, tenure, values, facilities and live stock; value of field crops, vegetables, fruits and forest products. *Price, 25 cents.*
- Nova Scotia—Farm population, areas, tenure, values, facilities and live stock; value of field crops, vegetables, fruits and forest products. *Price, 25 cents.*
- New Brunswick—Farm population, areas, tenure, values, facilities and live stock; value of field crops, vegetables, fruits and forest products. *Price, 25 cents.*

## II. CENSUS OF POPULATION AND AGRICULTURE, 1921.

*Bulletins of the Sixth Census of Canada, 1921, as follows:—*

- (1) POPULATION:—(a) Population of Canada, 1921, by Provinces, Electoral Districts, Cities, Towns, etc. (b) Religions of the People, 1921. (c) Origins of the People, 1921. (d) Dwellings and Families, 1921. (e) Birthplaces of the People, 1921. (f) Citizenship of the Foreign Born, 1921. (g) Year of Immigration, 1921. (h) Ages of the People, 1921. (i) Conjugal Condition of the People, 1921. (j) Language Spoken and Mother Tongue, 1921. (k) Literacy, 1921. (l) School Attendance, 1921. (m) Occupations, 1921. (n) Children in Gainful Occupations, 1921. Also bulletins on population by provinces as follows: (a) Population of Nova Scotia—Electoral Districts, etc. (b) Population of Prince Edward Island—Electoral Districts, etc. (c) Population of New Brunswick—Electoral Districts, etc. (d) Population of Quebec—Electoral Districts, etc. (e) Population of Ontario—Electoral Districts, etc. (f) Population of Manitoba—Electoral Districts, etc. (g) Population of Saskatchewan—Electoral Districts, etc. (h) Population of Alberta—Electoral Districts, etc. (i) Population of British Columbia—Electoral Districts, etc.
- (2) AGRICULTURE:—(a) Field Crops of Prairie Provinces, 1921. (b) Agriculture of Canada—General Summary. (c) Pure-Bred Domestic Animals, 1921. (d) Agriculture of Nova Scotia, 1921. (e) Agriculture of Prince Edward Island, 1921. (f) Agriculture of New Brunswick, 1921. (g) Agriculture of Quebec, 1921. (h) Agriculture of Ontario, 1921. (i) Agriculture of Manitoba, 1921. (j) Agriculture of Saskatchewan, 1921. (k) Agriculture of Alberta, 1921. (l) Agriculture of British Columbia, 1921.

*Reports of the Sixth Census of Canada, 1921, as follows:—*

- Vol. I. Introduction, number, sex and distribution, racial origins, religions.
- Vol. II. Ages, conjugal condition, birthplace, birthplace of parents, year of immigration and naturalization, language spoken and mother tongue, literacy, school attendance, blindness and deaf-mutism. (*Out of print.*)
- Vol. III. Families, dwellings, ownership of homes, rentals, earnings. (*Out of print.*)
- Vol. IV. Occupations and Employment.
- Vol. V. Agriculture—Farm holdings by size, tenure, value, etc.; farm products; field crops; vegetables; fruits; forest products; live stock; animal products; statistics of operators.

## Census Monographs, 1921.

- Illiteracy and School Attendance in Canada.
- Origin, Birthplace, Nationality and Language of the Canadian People.

## III. CENSUS OF POPULATION AND AGRICULTURE OF THE PRAIRIE PROVINCES, 1926.

Report of the Census of Population and Agriculture of the Prairie Provinces, 1926.

- Census of Manitoba—Population and Agriculture.
- Census of Saskatchewan—Population and Agriculture.
- Census of Alberta—Population and Agriculture.

Preliminary Bulletins as follows: (a) Population of Manitoba—Electoral Districts, etc. (b) Population of Saskatchewan—Electoral Districts, etc. (c) Population of Alberta—Electoral Districts, etc. (d) Animals on Farms in the Prairie Provinces, 1926. (e) Farm Lands and Crops in the Prairie Provinces, 1926.

## POPULATION—concluded.

## Census—

## IV. INTERCENSAL ESTIMATES OF POPULATION.

## Births, Deaths and Marriages—

## V. VITAL STATISTICS.

Annual Report on Vital Statistics of Canada by Provinces and Municipalities, *Price, \$1*;  
 Preliminary Annual Report on Vital Statistics of Canada; Preliminary Quarterly  
 Report on Vital Statistics of Canada; Monthly Report of Births, Deaths and Mar-  
 riages registered in Cities; Report of Conference on Vital Statistics, held June 19-20,  
 1918; Special Report on Contributory Causes of Death, 1926; Order of Birth in the  
 Registration Area of Canada, 1925; Physicians' Pocket Reference to the Inter-  
 national List of Causes of Death; Manual of the International List of Causes of  
 Death, Revision of 1929; Special Report on Mortality in Canada from Cerebral  
 Hemorrhage and Certain Diseases of the Heart, Arteries and Kidneys, 1921-32;  
 Special Report on Mortality in Canada According to Place of Residence, 1930-32;  
 Special Report on Mortality from Tuberculosis in Canada According to Place of  
 Residence, 1930-32; Special Report on Births in Canada According to Place of  
 Residence of Mother, 1930-32; Special Report on Mortality in Canada, 1921-32.

## PRODUCTION—

## I. GENERAL SUMMARY OF PRODUCTION.

Including and differentiating gross and net—(1) Primary Production (agriculture,  
 fishing, furs, forestry and mining) and (2) Secondary Production, or General Manu-  
 factures.

## II. AGRICULTURE.

(1) *Agricultural Production.*—

Monthly Bulletin of Agricultural Statistics; *Price \$1 per year*: (The official record of  
 current statistical data relating to agriculture. Contains reports on agricultural  
 conditions, prices, weather, etc.—estimates of areas, yields, quality and value of  
 field crops—value of farm lands—wages of farm help—number and values of farm  
 live stock and poultry—statistics of fruit and floriculture—dairying—tobacco—  
 hives and honey—maple syrup and sugar—clover and grass seed—miscellaneous  
 crops—stocks of grain—annual summary of value of agricultural production—index  
 numbers of agricultural prices, yields and values—international agricultural statistics).

Advance Summaries of Agricultural Statistics.

Telegraphic Crop Reports: (Between June 1 and Sept. 1, weekly for the Prairie Provinces  
 and every two weeks for the rest of Canada).

Agricultural Statistics by Counties and Crop Districts, 1922-24 and 1925-29.

Annual Statistics of Fruit and Floriculture: (latest issue, 1933).

Advance Summaries on Fruit Conditions, Yields, etc.

Handbook of Instructions to Crop Correspondents, and Summary of Annual Agricul-  
 tural Statistics, 1931.

(See also Censuses of Agriculture under "Population".)

(2) *Grain and Grain Products.*—

(a) Annual Report on the Grain Trade of Canada, *Price 50 cents*; (b) Preliminary  
 Report on the Grain Trade of Canada, *Price 25 cents*; (c) Monthly Review of the  
 Wheat Situation, *Price \$1 per year*; (d) Canadian Grain Statistics.—(Weekly report  
 on grain supplies and movements); (e) Canadian Milling Statistics.—(Monthly);  
 (f) List of Mills with Capacity, (Latest issue, 1934); (g) The Grain Situation in the  
 Argentine.—(Monthly); (h) The Production and Distribution of Canadian Grains  
 and Seeds; (i) Barley, (2) Oats, (3) Rye, (4) Flaxseed.

(3) *Live Stock and Animal Products.*—

(a) Annual Report on Live-Stock and Animal Products Statistics, *Price 25 cents*;  
 (b) Monthly Reports on Stocks in Cold Storage (Advance, preliminary and final);  
 (c) Monthly Estimates of Creamery Butter Production, by Provinces; (d) Annual  
 Estimates of the Consumption of Meats, Butter, Cheese, Eggs and Poultry in  
 Canada.

(4) *Other.*—

Monthly Report on Raw and Refined Sugar. (Visible supply, meltings, shipments,  
 exports and imports.)

## III. FURS.

Annual Report of Fur Farms. *Price 25 cents*.

Advance Summary of Statistics of the Production of Raw Furs.

Annual Report on the Production of Raw Furs: (Comprising the pelts taken by trappers  
 and those sold from fur farms).

**PRODUCTION—continued.****IV. FISHERIES.**

Annual Report of Fisheries Statistics. *Price 35 cents.*

Advance Summaries of Fish Caught and Marketed, by Provinces.

**V. FORESTRY.**

Annual Summary of the Value, etc., of Forest Production: (Includes operations in the woods for sawmills, shingle mills, pulp and paper mills, etc., production of mining timber, production of poles and cross ties, and farm production—decennial—of firewood, posts, etc.).

[See also Reports on Manufactures of Forestry Products listed under "Manufactures" Section VII, Subsection (5).]

**VI. MINERAL PRODUCTION: (MINING AND METALLURGY.)****(1) General—**

(a) Annual Report on the Mineral Production of Canada, *Price 50 cents*; (b) Preliminary Reports (semi-annual) on the Mineral Production of Canada; (c) Monthly Reports on Leading Minerals; (d) Preliminary Estimate of Canada's Mineral Production.

**(2) Coal—**

(a) Annual Report on Coal Statistics for Canada, *Price 25 cents*; (b) Monthly Summary Report on Coal and Coke Statistics for Canada; (c) Quarterly Report on Coal and Coke Statistics for Canada, *Price 50 cents per year.*

**(3) Annual Bulletins on Mining—**

**Metals**—The Gold-Mining Industry in Canada: (includes alluvial gold mining, auriferous quartz mining, copper-gold-silver mining, and tables showing Canadian and world production of gold). The Silver-Mining Industry in Canada: (includes silver-cobalt-arsenic mining, silver-lead-zinc mining, and tables showing Canadian and world production of arsenic, cobalt, lead, silver, and zinc). The Nickel-Copper Mining, Smelting and Refining Industry: (includes Canadian and world production of nickel). The Copper Mining Industry: (includes Canadian and world production of copper). Metals of the Platinum Group. The Production of Miscellaneous Metals: (includes antimony, beryl, bismuth, cadmium, chromite, lithium, manganese, mercury, molybdenite, radium, selenium, tin, titanium, tungsten). The Non-Ferrous Smelting and Refining Industry.

**Non-Metals**—Abrasives; Asbestos; Feldspar and Quartz; Gypsum; Iron Oxide; Mica; Natural Gas; Petroleum; Salt; Talc and Soapstone; Miscellaneous Non-Metallic Minerals (includes actinolite, barytes, bituminous sands, fluor spar, graphite, magnesite-dolomite, magnesium sulphate, bog manganese, mineral waters, peat, phosphate, silica brick, sodium carbonate, sodium sulphate, sulphur—pyrites).

**Structural Materials**.—Cement; Clay and Clay Products; Lime; Sand and Gravel; Stone.

[See also Reports on Iron and Steel and their Products, Manufactures of Non-Ferrous Metals, and Chemicals and Allied Products, listed under "Manufactures", Section VII, Subsections (6), (7), (8) and (9).]

**VII. MANUFACTURES.**

**(1) General**—General Report on the Manufacturing Industries of Canada, *Price 25 cents.* Geographical Distribution of the Manufacturing Industries of Canada, *Price 20 cents.* Also Reports for the Provinces and Leading Cities; Alphabetical List of Products (annual report); Quantity of Manufacturing Production in Canada, 1923-29; Consumption of Luxuries, (annual report).

**(2) Manufactures of Vegetable Products**—General Report. Annual Bulletins as follows: (a) Coffee, Tea, Spices and Miscellaneous Foods; (b) Fruit and Vegetable Preparation (including canning, evaporating and preserving and pickles, sauces, vinegar and cider); (c) Flour and Grist-Mill Products; (d) Bread and Other Bakery Products; (e) Biscuits and Confectionery, Including Cocoa and Chocolate; (f) Macaroni and Vermicelli; (g) Liquors, Distilled; (h) Liquors, Malt; (i) Liquors, Vinous; (j) Rubber Goods and Rubber Boots and Shoes; (k) Prepared Breakfast Foods; (l) Sugar Refineries; (m) Tobacco Products; (n) Linseed and Soya Bean Oil; (o) The Canned Foods Industry; (p) Ice Cream; (q) Pack of Fruits and Vegetables (preliminary); (r) Barley and Its Production; (s) Mixed Feed Trade in Canada; (t) Stocks of Fruits and Vegetables on hand; (u) Stocks of Unmanufactured Tobacco on Hand.



## PRODUCTION—continued.

## VII. MANUFACTURES.—continued.

- (3) *Animal Products and Their Manufactures*—Annual Reports and Bulletins as follows: (a) The Dairy Factory Industry, *Price 25 cents*; (b) Slaughtering and Meat Packing and Sausage and Sausage Casings; (c) Leather Tanneries; (d) Miscellaneous Leather Goods, Leather Belting, Boot and Shoe Findings, Leather; (e) Leather Boots and Shoes; (f) Leather Gloves and Mitts; (g) Fur Goods, Fur Dressing. Monthly Report on Boot and Shoe Production. Monthly Report on Concentrated Milk Products.

[See also Reports on Live Stock, etc., listed under "Agriculture".]

- (4) *Textile and Allied Industries*—General Report on the Textile Industries of Canada, *Price 50 cents*. Annual Bulletins as follows: (a) Cotton Textiles (cloth, yarn, thread and waste); (b) Woollen Textiles (cloth, yarn, waste, carpets, etc., and woollen goods, n.e.s.); (c) The Silk Industry; (d) Clothing, Men's, Factory; (e) Clothing, Women's, Factory; (f) Hats and Caps; (g) Hosiery and Knitted Goods; (h) Men's Furnishings, n.e.s.; (i) Oiled Clothing and Waterproofs; (j) Cordage, Rope and Twine; (k) Corsets; (l) Cotton and Jute Bags; (m) Dyeing, Cleaning and Laundry Work; (n) Dyeing and Finishing of Textiles; (o) Awnings, Tents and Sails; (p) Production and Consumption of Raw Wool in Canada, 1931; (q) Consumption of Wool, tops and yarns, 1932.
- (5) *Manufactures of Forestry Products*—Printed Bilingual Annual Reports: (a) The Lumber Industry; (b) The Pulp and Paper Industry; (c) Wood-Using Industries; (d) Paper-Using Industries. Mimeographed Annual Reports: (a) The Lumber Industry; (b) Lumber Distribution in Canada and the United States (biennial); (c) The Pulp and Paper Industry; (d) Planing Mills, Sash and Door Factories; (e) Hardwood Flooring; (f) Furniture; (g) Boxes, Baskets and Crates; (h) Carriages, Wagons and Materials; (i) Cooperage; (j) Coffins and Caskets; (k) Sporting Goods; (l) Boatbuilding; (m) Lasts, Trees and Shoe Findings; (n) Handles, Spools and Woodturning; (o) Woodenware; (p) Excelsior; (q) Miscellaneous Wood-Using Industries; (r) Printing and Publishing; (s) Printing and Bookbinding; (t) Lithographing; (u) Engraving, Electrotyping and Stereotyping; (v) Trade Composition; (w) Paper Boxes and Bags; (x) Blueprinting; (y) Roofing Paper; (z) Miscellaneous Paper Goods. The Printing Trades [combining (r), (s), (t), (u), (v) and (x)]. Mimeographed Monthly Reports: (a) Asphalt Roofing; (b) Rigid Insulating Board.
- (6) *Iron and Steel and Their Products*—Biennial Report, *Price 25 cents*. Annual Bulletins as follows: Preliminary Summary on the Iron and Steel Industry—(a) Primary Iron and Steel; (b) Castings and Forgings; (c) Boilers, Tanks and Engines; (d) Agricultural Implements; (e) Machinery; (f) Automobiles; (g) Automobile Supplies; (h) Railway Rolling Stock; (i) Wire and Wire Goods; (j) Sheet Metal Products; (k) Hardware and Tools; (l) Bridge Building and Structural Steel; (m) Miscellaneous Iron and Steel Products. Commodity Bulletins on the production of pig iron; steel; washing machines; cream separators; warm air furnaces; galvanized sheets; wire nails; wire rope and cable; steel wire; wire fencing; stoves, etc. Monthly Reports: (a) Iron and Steel; (b) Automobile Statistics.
- (7) *Manufactures of Non-Ferrous Metals*—Biennial Report, *Price 25 cents*. Annual Bulletins as follows: Preliminary Summary on Manufactures of Non-Ferrous Metals. (a) Aluminium Products; (b) Brass and Copper Products; (c) Lead, Tin and Zinc Products; (d) Jewellery and Silverware; (e) Electrical Apparatus and Supplies; (f) Miscellaneous Non-Ferrous Metal Goods. Quarterly Reports on production and sales of radio sets and sales of storage batteries. Commodity Bulletins on the production of batteries; silverware; vacuum cleaners; electric motors and generators; electric transformers; incandescent lamps, etc.
- (8) *Manufactures of the Non-Metallic Minerals*—Biennial Report, *Price 25 cents*. Annual Bulletins as follows: Preliminary Summary on Manufactures of Non-Metallic Minerals—(a) Aerated Waters; (b) Asbestos Products; (c) Cement; (d) Cement Products; (e) Coke and Gas; (f) Glass (blown, cut and ornamental, etc.); (g) Lime; (h) Petroleum Products; (i) Products from Domestic Clays; (j) Products from Imported Clays; (k) Salt; (l) Sand-Lime Brick; (m) Dressed Stone; (n) Artificial Abrasives and Abrasive Products; (o) Miscellaneous Non-Metallic Mineral Products (including carbon electrodes—gypsum products—mica products—non-metallic minerals, n.e.s.). Also Special Report on the consumption of coke in Canada. Monthly Report on Coke Statistics.
- (9) *Chemicals and Allied Products*—Biennial Report, *Price 25 cents*. Annual Bulletins as follows: Preliminary Summary on Chemicals and Allied Products—(a) Coal Tar Distillation; (b) Acids, Alkalies and Salts; (c) Compressed Gases; (d) Explosives, Ammunition and Fireworks; (e) Fertilizers; (f) Medicinal and Pharmaceutical Preparations; (g) Paints, Pigments and Varnishes; (h) Soaps, Cleaning Preparations



**PRODUCTION—concluded.****VII. MANUFACTURES—concluded.**

and Washing Compounds; (i) Toilet Preparations (j) Inks; (k) Adhesives; (l) Polishes and Dressings; (m) Wood Distillation; (n) Miscellaneous Chemical Products, (including boiler compounds—cellulose products—insecticides—sweeping compounds—disinfectants—matches—dyes and colours—chemical products, n.e.s.). Special Report on the Fertilizer Trade in Canada. Commodity Bulletins on Sulphuric Acid, Ammonium Sulphate, etc. Special Report—Directory of Chemical Industries in Canada, as of July 1, 1932. Special Report on the Consumption of Chemicals in Municipal Waterworks in Canada, 1931 and 1932.

- (10) *Miscellaneous Manufactures*—General Report. Annual Bulletins as follows: (a) Brooms, Brushes and Mops; (b) Musical Instruments (including pianos, organs and phonographs) and Musical Instrument Materials and Parts; (c) Buttons; (d) Bed Springs and Mattresses.

NOTE.—For statistics of water power and central electric stations, see under heading "Public Utilities".

**VIII. CONSTRUCTION—**

Building Permits—Monthly and Annual Record.

**EXTERNAL TRADE (IMPORTS AND EXPORTS)—**

- (1) Annual Report of the Trade of Canada, for the fiscal year ended Mar. 31 (showing summary historical tables, analyses of current trends, detailed tables by items, group analyses according to component material, origin and degree of manufacture, and purpose, and comparisons of the volume of trade). *Price \$3.*
- (2) Condensed Preliminary Report of the Trade of Canada, for the fiscal year ended Mar. 31. *Price 25 cents.*
- (3) Annual Report of the Trade of Canada for the calendar year. *Price 50 cents.* (Free to subscribers to Quarterly Trade Report.)
- (4) Review of Canada's Foreign Trade during the calendar year.
- (5) Quarterly Report of the Trade of Canada (showing statistics of imports and exports by months and cumulative quarters). *Price \$2 per year.*
- (6) Monthly Summary of the Trade of Canada (for latest month and latest 12 months). *Price \$1 per year.*
- (7) Monthly Bulletins on Trade Statistics as follows: (a) Abstract of Imports, Exports, and Duty Collected (by latest month, accrued period, and latest 12 months); (b) Summary of Canada's Imports (for latest month); (c) Summary of Canada's Exports (for latest month); (d) Canada's Imports from Principal Countries (for latest month and accrued period); (e) Canada's Domestic Exports to Principal Countries (for latest month and accrued period).
- (8) Monthly Commodity Bulletins: (a) Imports and Exports of Asbestos; (b) Imports and Exports of Coffee and Tea; (c) Imports of Farm Implements and Machinery; (d) Exports of Farm Implements and Machinery; (e) Imports and Exports of Fertilizers; (f) Imports and Exports of Footwear (except rubber); (g) Exports of Grain and Flour; (h) Imports and Exports of Hides and Skins; (i) Imports of Lumber; (j) Exports of Lumber; (k) Imports of Meats, Lard and Sausage Casings; (l) Exports of Meats, Lard and Sausage Casings; (m) Imports of Milk, Milk Products and Eggs; (n) Exports of Milk, Milk Products and Eggs; (o) Imports of Non-Ferrous Metals and Smelter Products; (p) Exports of Non-Ferrous Metals and Smelter Products; (q) Imports of Paints and Varnishes; (r) Exports of Paints and Varnishes; (s) Imports of Petroleum and Products; (t) Exports of Petroleum and Products; (u) Imports and Exports of Pipes, Tubes and Fittings; (v) Imports of Pulpwood, Pulp and Paper; (w) Exports of Pulpwood, Pulp and Paper; (x) Imports of Rubber and Products; (y) Exports of Rubber and Products; (z) Imports of Sheet Metal Products; (aa) Imports and Exports of Vegetable Oils; (bb) Imports of Vehicles (of iron). *Price \$1 per year for imports and exports of one commodity; \$5 per year for all the above commodity bulletins.*
- (9) Special Trade Reports: (a) Trade of Canada with Pacific Countries, (1932); (b) Canada-Belgium Trade, 1933; (c) Canada's Imports of Commodities not produced in Canada, 1929-1933; (d) Canada-Austria Trade, 1934; (e) Canada-Germany Trade, 1934.

## INTERNAL TRADE—

## 1. RETAIL AND WHOLESALE TRADE:

Census of Merchandising and Service Establishments, 1931:—  
Statistics of Retail and Wholesale Trade in 1930.

*Preliminary Bulletins (mimeographed)*—(a) Retail Trade of cities with a population of 10,000 and over, showing number of establishments, kinds of business, types of operation, employees, wages, sales, etc.; (b) Wholesale Trade of cities with a population of 20,000 and over.

*Final Reports (mimeographed)*—(a) Retail Merchandise Trade in Canada; (b) Retail Services in Canada; (c) Wholesale Trade in Canada; (d) Summary of Retail Facts; Credit and Commodity Sales; Size of Business; Operating Expenses by Provinces; (e) Retail Sales by Commodities; (f) Mail Order Sales; (g) Food Retailing; (h) Drug Retailing; (i) Retail Trade in Rural and Urban Areas; (j) Wholesale Trade by Provinces; (k) Operating Results of Wholesale Establishments, Showing Operating Expenses, Size of Business, Number of Units, etc.; (l) Commodity Sales by Wholesale Establishments; (m) Chain Stores, Food Chains, Variety Chains, Drug Chains, Filling Station Chains, Lumber and Building Material Chains; (n) Hotel Operations, by Provinces; (o) Hotel Operations in Canada; (p) Co-operative Marketing and Purchasing Associations; (q) Motor-Vehicle Transportation; (r) Distribution of Sales of Coal Mines; (s) Distribution of Sales of Manufacturing Establishments.

*Final Reports (Printed)*—Retail Trade by Provinces, showing number of establishments, kinds of business, types of operation, full-time and part-time employees and wages, operating expenses, size of business, credit sales, forms of organization, capital invested, and sales by commodities; details for cities with populations of 30,000 and over by kinds of business and types of operation, and by kinds of business for counties or census divisions and incorporated places with populations of 1,000 and over. Reports now available for Nova Scotia, 25 cents; Ontario, 50 cents; Quebec, 50 cents; reports for other provinces, summary for Canada and wholesale trade for Canada and the provinces in process of compilation.

*Annual Reports on Retail and Wholesale Trade*—Reports for 1933 as follows: (a) Chain Stores; (b) Retail Merchandise Trade by Provinces and for Canada; (c) Motion Picture Statistics; (d) Wholesale Trade in Canada and the Provinces.

*Monthly Reports*—Changes in the Value of Retail Sales; New Motor Vehicle Sales for Canada and the Provinces; Financing of Automobile Sales.

## 2. PRICES STATISTICS.

*Annual Reports*—

1913-1933 Report on Prices and Price Indexes in Canada, in the British Empire, and in Foreign Countries (dealing with exchange and currency, security prices—common stocks, preferred stocks, mining stocks—bond yields, U.S. common stocks, prices and index numbers of street car rates, hospital charges, manufactured and fuel gas, electric light rates, telephone rates,—and import and export valuations). Price 50 cents. Preliminary Summary of Price Movements, 1934.

*Monthly Reports*—

Index Numbers of Wholesale and Retail Prices in Canada, British Empire and Foreign Countries—Security Prices—Exchange Rates.

*Weekly Reports*—

Index Numbers of Wholesale Prices; Index Numbers of Common Stock Prices; Index Numbers of Mining Stock Prices.

*Special Reports*—

Index Numbers of Wholesale Prices of Canadian Farm Products, 1890-1933 (with historical tables).

## 3. CAPITAL MOVEMENTS.

Annual Records and Estimates of Capital Investments by Foreigners in Canada and of Canadian Investments in Foreign Countries.

## 4. RECORDS OF BRANCH PLANT DEVELOPMENT IN CANADA.

Lists of New Concerns Locating in Canada in Recent Years. Bulletin on Branch and Subsidiary Industries in Canada.

## 5. BALANCE OF INTERNATIONAL PAYMENTS.

Compilation of Canada's Annual Balance of Payments. Estimation of the Invisible Items in Canada's Trade Balance (Receipts and Payments for Interest, Freight, Insurance, Non-Commercial Remittances, Government Expenditures, Capital of Immigrants and Migrants, etc.).

## TRANSPORTATION, COMMUNICATIONS AND PUBLIC UTILITIES—

1. *Railways and Tramways.*—ANNUAL REPORTS: (a) Railway Statistics. Price 50 cents. (b) Electric Railway Statistics. Price 25 cents. (c) Location of Railway Mileages. (d) Summary of Monthly Railway Traffic Report. MONTHLY REPORTS: (a) Railway Revenues, Expenses, Incomes and Operating Statistics. (b) Freight Traffic of Railways. WEEKLY REPORTS: Car Loadings of Revenue Freight.
2. *Express.*—Annual Report on Express Statistics.
3. *Telegraphs.*—Annual Report on Telegraph Statistics.
4. *Telephones.*—Annual Report on Telephone Statistics.
5. *Water Transportation.*—(a) Annual Report on Canal Statistics. Price 25 cents. (b) Monthly Report on Canal Statistics.
6. *Electrical Stations.*—(a) Annual Report on Central Electric Stations in Canada; (b) Report on Index Numbers of Electric Light Rates; (c) Report on use of Electric Energy in Industries; (d) Monthly Report on Electric Energy Generated.
7. *Motor Vehicles.*—(a) Annual Report on Motor Vehicle Registrations; (b) Highways—Annual Report on Highway Mileage Open for Traffic, Construction and Expenditures on Construction and Maintenance.

## FINANCE—

## PROVINCIAL PUBLIC FINANCE.

1. *Financial Statistics of Provincial Governments.*—  
(a) 1921 to 1926. (1923 and 1924 out of print.) (b) 1927 to 1931. Special Summary statements. (Out of print.) (c) 1927 to 1929. Special analysis for Statistical Conference. (Out of print.) (d) 1932 and 1933. (e) Bonded Indebtedness of Provinces. Special analysis, 1916 to 1931.

## MUNICIPAL FINANCE.

1. *Statistics of Cities and Towns.*—  
(a) Urban Municipalities Having a Population of 10,000 and Over, 1919 and 1920. (b) 1925 to 1932. (1925 and 1928 out of print.) (c) Urban Municipalities Having Populations of 3,000 to 10,000, 1919. (d) Urban Municipalities Having Populations of 1,000 to 3,000, 1920. (e) Urban Municipalities Having Populations of 5,000 and Over, and 1,000 to 5,000, 1922.
2. *Assessment Valuations. Analysis by Classes of Municipalities.*—  
(a) 1919 to 1923. (b) 1924 to 1932.
3. *Bonded Indebtedness by Classes of Urban and Rural Municipalities.*—  
(a) 1919 to 1932. (1919-23 out of print.)

## CIVIL SERVICE STATISTICS OF THE DOMINION GOVERNMENT.

- (a) Numbers of Personnel and Salary Expenditure for the Month of January, 1912-1924. (Special Report—out of print.) (b) Numbers of Personnel and Salary Expenditures by Months, Price 25 cents—(1) 1925-1931. (2) 1932-1934.

## JUSTICE—

1. *Criminal Statistics.*—Annual Report. Price 50 cents. (Covering convictions, sentences, prison statistics, police statistics, pardons, commutations and executions.)
2. *Juvenile Delinquency.*—Annual Bulletin. Price 10 cents.

## EDUCATION—

- (1) Annual Survey of Education in Canada. (Published yearly since 1921.) Includes the following: (a) Provincially-controlled schools; (b) Universities and colleges; (c) Private schools; (d) Schools for Indians; (e) Directory of educational organizations, societies and periodicals, of provincial or Dominion scope; (f) Bibliography of Canadian studies in education, since 1929.



## EDUCATION—concluded.

- (2) Survey of Canadian Libraries. (Biennial, 1931, 1933.)
- (3) Cost of Education. (A series of bulletins, 1934.)
- (4) Civic Playgrounds, 1934: School Playgrounds in Canadian Cities, 1934.
- (5) Illiteracy and School Attendance in Canada. (A study of the Census of 1921 with supplementary data. Under revision on basis of the Census of 1931.)
- (6) Report of Dominion-Provincial Conference on Education Statistics. (Held October, 1920.)

## GENERAL—

- (1) *National Wealth and Income*.—Estimates of the National Wealth of Canada, by Provinces, Industries, etc.: Income Assessed for Income War Tax: The National Income of Canada.
- (2) *Employment*.—Monthly and Annual Reports on Employment. (With Index Numbers of Employment by Economic Areas, Cities and Industries.)
- (3) *Commercial Failures*.—Monthly and Annual Reports.
- (4) *Bank Debits*.—Monthly and Annual Reports of Bank Debits to Individual Accounts at the Clearing-House Centres of Canada.
- (5) *Business Statistics*.—The Monthly Review of Business Statistics, *Price \$1 per year*. (A statistical summary with charts and text, of current economic conditions in Canada.); Special Supplements—Twelve Years of the Economic Statistics of Canada, 1919-30; Monthly Indexes of the Physical Volume of Business in Canada, 1919-32; Original Monthly Statistics of Chief Economic Importance, 1919-33, *Price 25 cents*; Business Conditions in Canada in Elapsed Months of Current Year. (Monthly.)
- (6) *Divorce*.—Annual Report.
- (7) *Liquor Control*.—Annual Report on the Control and Sale of Liquor.
- (8) *Tourist Trade*.—Annual Report.
- (9) *The Maritime Provinces in Their Relation to the National Economy of Canada*.—A statistical study of their social and economic condition since Confederation.
- (10) *The Prairie Provinces in Their Relation to the National Economy of Canada*.—A statistical study of their social and economic condition in the twentieth century.
- (11) *The Canada Year Book*.—The official statistical annual of the physiography, resources, history, institutions and social and economic conditions of the Dominion, with a statistical summary of the progress of Canada, maps, diagrams, etc. *Price \$1.50*.  
Contents: I. Physical Characteristics of Canada (geographical features; geological formation; seismology; flora; fauna; natural resources; climate and meteorology). II. History and Chronology. III. Constitution and Government (constitution and general government of Canada; provincial and local government in Canada; parliamentary representation in Canada). IV. Population (growth and distribution). V. Vital Statistics. VI. Immigration. VII. Survey of Production. VIII. Agriculture. IX. Forestry. X. Fur Trade. XI. Fisheries. XII. Mines and Minerals. XIII. Water Power. XIV. Manufactures. XV. Construction. XVI. External Trade. XVII. Internal Trade. XVIII. Transportation and Communications (government control over transportation and communications; steam railways; electric railways; express companies; roads and highways; motor vehicles; air navigation; canals; shipping and navigation; telegraphs; telephones; radio; post office). XIX. Labour and Wages. XX. Prices. XXI. Public Finance (Dominion public finance; provincial public finance; municipal public finance; national wealth and income). XXII. Currency and Banking; Loan and Trust Companies. XXIII. Insurance (and Government annuities). XXIV. Commercial Failures. XXV. Education. XXVI. Public Health and Benevolence. XXVII. Judicial and Penitentiary Statistics. XXVIII. Miscellaneous Administration (public lands; national defence; public works, etc.). XXIX. Sources of Official Statistical and Other Information Relative to Canada. XXX. The Annual Register (Dominion legislation; principal events of the year; extracts from the *Canada Gazette*, re official appointments, commissions, etc.). Appendices.  
(Issues of the *Canada Year Book* for 1921, 1924, 1926, 1930, 1931 and 1932 are available.)
- (12) *Canada*.—The Official Handbook of Present Conditions and Recent Progress. (Published annually. *Price 25 cents*.)
- (13) *The Daily News Bulletin*.—(A mimeographed report summarizing the chief items of statistical importance in news-letter form and listing the reports issued each day by the Bureau of Statistics. *Price \$1.50 per year*.)



**GENERAL**—concluded.

(14) *The Weekly News Bulletin*.—(A mimeographed report summarizing the chief items of statistical importance in news-letter form and listing the reports issued each week by the Bureau of Statistics.) *Price \$1 per year.*

N.B.—The complete service of all publications issued by the Bureau (with the exception of news bulletins) may be obtained for a special rate of \$15 per annum.

**Section 2.—Acts Administered by Dominion Departments.**

**List of the Principal Acts of Parliament Administered by Departments of the Government of the Dominion of Canada, as Compiled from Information Supplied by the respective Departments.**

(Numbers within parentheses, unless otherwise indicated, denote chapters of the Revised Statutes of Canada, 1927—R.S.C., 1927.)

*Note.*—Copies of individual Acts of Parliament may be obtained from the King's Printer at prices of from 10 cents to \$1 per copy according to number of pages.

**Agriculture.**—Experimental Farm Stations (61); Fruit and Honey (24-25 Geo. V, c. 18); Dairy Industry (45); Cold Storage (25); Seeds (185); Feeding Stuffs (67); Live Stock Pedigree (121); Live Stock and Live Stock Products (120); Animal Contagious Diseases (6); Meat and Canned Foods (77); Destructive Insect and Pest (47); Fertilizers (69); Root Vegetables (181); Section 235, Criminal Code (Race Track Betting) (36); Inspection and Sale (100); Maple Sugar Industry (20-21 Geo. V, c. 30); Agricultural Pests Control (5); Natural Products Marketing (24-25 Geo. V, c. 57).

**Auditor General.**—Consolidated Revenue and Audit (21-22 Geo. V, c. 27).

**Civil Service Commission.**—Civil Service (22), as amended 1932, c. 40.

**External Affairs.**—The functions and duties of this Department are defined by the Department of External Affairs Act (65) and by the International Boundary Waters Treaty Act, 1911 (1-2 Geo. V, c. 28), as amended by the Statute of April 3, 1914 (4 Geo. V, c. 5).

**Finance.**—Appropriation; Bank (24-25 Geo. V, c. 24); Bank of Canada (24-25 Geo. V, c. 43); Bills of Exchange (16) and (24-25 Geo. V, c. 17); Board of Audit (10); Canadian Farm Loan (66) and (24-25 Geo. V, c. 46); Civil Service Superannuation (24); Consolidated Revenue and Audit (21-22 Geo. V, c. 27); Currency (40); Dept. of Finance and Treasury Board (71) and (21-22 Geo. V, c. 48); Dominion Notes (41) and (23-24 Geo. V, c. 12 and 24-25 Geo. V, c. 34); Farmers' Creditors Arrangement (24-25 Geo. V, c. 53); Federal District Commission (17 Geo. V, c. 55); Finance (70) and (24-25 Geo. V, c. 35); Interest (102); Penny Bank (13); Provincial Subsidies (192); Quebec Savings Banks (14) and (24-25 Geo. V, c. 39); Special War Revenue (179) and (23-24 Geo. V, c. 50; 24-25 Geo. V, c. 42)—(in part); Gold Export (22-23 Geo. V, c. 33); Tariff Board (21-22 Geo. V, c. 55).

**Fisheries.**—Fisheries (73, as amended 1932, c. 42 and 1934, c. 6); Fish Inspection (72); Meat and Canned Foods (77, so far as it relates to fish and shellfish); Deep-sea Fisheries (27); Northern Pacific Halibut Fishery Protection (75); Pelagic Sealing (153); Customs and Fisheries Protection (43, in part); Navigable Waters Protection (140, in part). The Biological Board Act (18, as amended 1930, c. 4), is also administered by the Minister of Fisheries.

**Immigration.**—The Immigration Act and Regulations, 1910 (93); the Chinese Immigration Act and Regulations, 1923 (95).

**Indian Affairs.**—Indian (98).

**Insurance.**—Department of Insurance (22-23 Geo. V, c. 45); Canadian and British Insurance Companies, 1932 (22-23 Geo. V, c. 46, as amended 1932-33, c. 32 and 1934, cc. 27, 45); Foreign Insurance Companies, 1932 (22-23 Geo. V, c. 47 as amended 1934, c. 6); Loan Companies (28); Trust Companies (29).

**Interior.**—Forest Reserves and Parks (78); Seed Grain (87); Seed Grain Sureties (88); Department of the Interior (103); Irrigation (104); Dominion Lands (113); Public Lands Grants (114); Ordnance and Admiralty Lands (115); Railway Belt (116); Dominion Lands Survey (117); Land Titles (118); Manitoba Supplementary Provisions (124); Migratory Birds Convention (130); Northwest Game (141); Northwest Territories (142); Reclamation (175); Saskatchewan and Alberta Roads (180); Soldier Settlement (188); Dominion Water Power (210); Railway Belt Water (211); Yukon (215); Yukon Placer Mining (216); Yukon Quartz Mining (217); Lac Seul Conservation (18-19 Geo. V, c. 32); National Parks (20-21, Geo. V, c. 33); Alberta Natural Resources (20-21 Geo. V, c. 3); Manitoba Natural Resources (20-21 Geo. V, c. 29); Railway Belt and Peace River Block (20-21 Geo. V, c. 37); Saskatchewan Natural Resources (20-21 Geo. V, c. 41); Refunds—Natural Resources—(22-23 Geo. V, c. 35).

**Justice.**—Department of Justice (106); Solicitor-General's (107); Northwest Territories (142); Yukon (215); Royal Canadian Mounted Police (160); Judges (105); Supreme Court (35); Exchequer Court (34); Admiralty (33); Petition of Right (158); Criminal Code (36); Penitentiary (154); Prisons and Reformatories (163); Identification of Criminals (38); Ticket of Leave (197); Fugitive Offenders (81); Extradition (37); Juvenile Delinquents (108).

**King's Printer and Controller of Stationery.**—Public Printing and Stationery (162); The Publication of Statutes (2).

**Labour.**—Labour Department (111); Conciliation and Labour (110); Industrial Disputes Investigation (112); Fair Wages Resolution of the House of Commons, 1900; Employment Office Co-ordination (57); Technical Education (193), as amended 1934, c. 9; Vocational Education (21-22 Geo. V, c. 59); Government Annuities (7 as amended by 21-22 Geo. V, c. 33); Combines Investigation (26); Old Age Pensions (156 as amended by 21-22 Geo. V, c. 42); White Phosphorus Matches (128); Fair Wages and Eight-Hour Day (20-21 Geo. V, c. 20); Unemployment Relief, 1930 (21 Geo. V, c. 1); Unemployment and Farm Relief, 1931 (21-22 Geo. V, c. 58); Relief, 1932 (22-23 Geo. V, c. 36); Relief, 1933 (23-24 Geo. V, c. 18); Relief, 1934 (24-25 Geo. V, c. 15).

**Marine.**—Government Harbours, Piers and Breakwaters (89); Shipping of Live Stock (122); Department of Marine (20-21 Geo. V, c. 31); Maritime Conventions (126); Navigable Waters' Protection (140); Quebec Harbour and River Police (169); Canada Shipping (186); Radiotelegraph (195); Government Vessels Discipline (203); Belleville Harbour Commission (1889, c. 35); Halifax Harbour Commission (1927, c. 58); Hamilton Harbour Commission (1912, c. 98); Montreal Harbour Commission (1894, c. 48; 1909, c. 24; 1912, c. 35; 1913, c. 32; 1914, c. 42); North Fraser Harbour Commission (1913, c. 162); New Westminster Harbour Commission (1913, c. 158); Quebec Harbour Commission (1899, c. 34, 1905, c. 33); Saint John, N.B., Harbour Commission (1927, c. 67); Three Rivers, Que., Harbour Commission (1923, c. 71); Trenton, Ont., Harbour Commission (1922, c. 50); Toronto Harbour Commission (1911, c. 26); Vancouver Harbour Commission (1913, c. 54); Winnipeg and St. Boniface Harbour Commission (1912, c. 55); Chicoutimi Harbour Commission (1926, c. 6).

**Mines.**—Geology and Mines (83); Explosives (62); Domestic Fuel (17 Geo. V, c. 52).

**National Defence.**—Department of National Defence (136); Naval Service (139); Naval Discipline; Militia (132); Militia Pension (133); Royal Military College (18-19 Geo. V, c. 7); S.s. 85 and 86 Criminal Code; Army; Regimental Debts; Aeronautics (3); Air Force; Visiting Forces, British Commonwealth, 1933 (23-24 Geo. V, c. 21).

**National Revenue.**—Customs Tariff (44); Customs (42); Canada Shipping (in part) (186); Animal Contagious Diseases (in part) (6); Destructive Insect and Pest (in part) (47); Export (63); Copyright (in part) (32); Petroleum and Naphtha (159); Excise (60); Special War Revenue, 1915 (179); Income War Tax, 1917 (97); Agricultural Pests Control (in part) (5); Customs and Fisheries Protection (in part) (43); Explosives (in part) (62).

**Pensions and National Health.**—*Pensions*—Department of Pensions and National Health (Part I) (18-19 Geo. V, c. 39); War Veterans' Allowance (20-21 Geo. V, c. 48); Pension (157 and Amendments); Returned Soldiers' Insurance (10-11 Geo. V, c. 54, and Amendments). The two latter Acts are adjudicated upon by the Canadian Pension Commission. *National Health.*—Department of Pensions and National Health (Part II) (18-19 Geo. V, c. 39); Quarantine (168); Public Works Health (91); Leprosy (119); Canada Shipping (Sick and Distressed Mariners) (24-25 Geo. V, c. 44); Proprietary or Patent Medicine (151); Opium and Narcotic Drug (19-20 Geo. V, c. 49 and Amendments); Food and Drugs (including Honey) (76 and Amendments).

**Post Office.**—Post Office (161); Special War Revenue (in part) (179).

**Public Works.**—Public Works (166); Government Harbours and Piers (89, sec. 5); Navigable Waters Protection (140); Telegraphs (194); Dry Dock Subsidies (191); Act to authorize the payment of a subsidy to the Collingwood Shipbuilding Co., Ltd. (2 Geo. V, 1912, c. 17); Government Works Toll Act (167); Act to incorporate the National Gallery of Canada (3-4 George V, 1913, c. 33); Act to authorize the payment of a subsidy to the Western Dry Dock and Shipbuilding Co., Ltd. (3-4 Geo. V, 1913, c. 57); Act to extend an Agreement for one year between His Majesty the King and the Corporation of the City of Ottawa (22-23 Geo. V, c. 11); Ferries (68), transferred by Order in Council, June 3, 1918, for administration by Public Works Department; Act Regulating Vehicular Traffic on Dominion Property (20-21 Geo. V, c. 47); Act to extend an Agreement for one year between His Majesty the King and the Corporation of the City of Ottawa (24-25 Geo. V, c. 7); Public Works Construction, 1934 (24-25 Geo. V, c. 59).

**Railways and Canals.**—Department of Railways and Canals (171); Government Railways (173); Intercolonial and P.E.I. Railway Employees' Provident Fund (6-7 Edw. VII, c. 22 and amending Acts); Acts to amend the National Transcontinental Railway Act (4-5 Geo. V, c. 43 and 5 Geo. V, c. 18); Canadian National Railways (172) and amending Acts 1918, c. 13, 1929, c. 10 and 1931, c. 6; Canadian National Railway Branch Lines (14-15 Geo. V, cc. 14-32, 15-16 Geo. V, cc. 5, 6 and 7, 17 Geo. V, cc. 12-26, 18-19 Geo. V, cc. 18-36, 22-23 Geo. V, c. 24); Government Employees Compensation (30) and amending Act, 1931,

c. 9; Canadian National Refunding, 1927 (17 Geo. V, c. 27); Canadian National Refunding, 1929 (19-20 Geo. V, c. 11); Canadian National (Central Vermont) Financing, 1930 (20-21 Geo. V, c. 7); Canadian National Refunding, 1930 (20-21 Geo. V, c. 8); Grand Trunk Pacific Securities, 1927 (17 Geo. V, c. 7); Canadian National Steamships, 1927 (17 Geo. V, c. 29); Canadian National Railways Pension (19-20 Geo. V, c. 4); Canadian National Montreal Terminals, 1929 (19-20 Geo. V, c. 12); Maritime Freight Rates (79); Canadian National Canadian Pacific, 1933 (23-24 Geo. V, c. 33); Canadian National Railways Financing, 1931, (c. 22, 1932, cc. 6 and 25, 1932-33, c. 34 and 1934, c. 28); An Act respecting the appointment of Auditors for National Railways (24-25 Geo. V, c. 3).

The "Railway Act" (Companies) confers certain powers upon the Minister of the Department. In the case of subsidized railways, the authorizing Acts are carried out under the Department, which also has certain jurisdiction where Government guarantee has been given.

**Secretary of State.**—Companies (24-25 Geo. V, c. 33); Naturalization (138); Patents (150 as amended 1928, c. 4; 1930, c. 34 and 1932, c. 21); Copyright (32); Unfair Competition (22-23 Geo. V, c. 38); Canada Temperance (196); Boards of Trade (19); Ticket of Leave (197); Trade Unions (202); Treaties of Peace.

**Trade and Commerce.**—Canada Grain (86) (20-21 Geo. V, c. 5); Electricity and Fluid Exportation (54); Electricity Inspection (55); Electric Units (56); Gas Inspection (82); Inland Water Freight Rates (208); Precious Metals Marking (84) (18-19 Geo. V, c. 40, 19-20 Geo. V, c. 53); Statistics (190); Weights and Measures Inspection (212); Act to place Canadian Coal used in the Manufacture of Iron or Steel on a Basis of Equality with Imported Coal (20-21 Geo. V, c. 6).

### Section 3.—Publications of Dominion Departments.

#### List of Principal Publications of the Departments of the Government of the Dominion of Canada as Compiled from Information Supplied by the respective Departments.

*Note.*—A catalogue of the official publications of the Parliament and Government of Canada, stating prices, is issued regularly once a year, with supplements when required; copies may be obtained from the King's Printer, Ottawa.

**Agriculture.**—Annual Reports of the Minister, the Veterinary Director General, and progress reports of the Bacteriology, Cereal, Chemistry, Forage Crops, and Illustration Stations Divisions of the Experimental Farms Branch. Bulletins, pamphlets and circulars of the Experimental Farms Branch on a great variety of agricultural subjects, including publications of the following Divisions: Field Husbandry; Animal Husbandry; Horticulture; Cereal; Chemistry; Forage Plants; Botanical; Poultry; Tobacco; Economic Fibre; Bacteriology; Bees; and Illustration Stations. Bulletins of the Dairy and Cold Storage Branch relating to the dairying and cold storage industries in Canada, the making of butter and cheese, dairying experiments, co-operation, etc. Reports, bulletins, pamphlets, etc., of the Live Stock Branch on cattle, sheep, swine, poultry, marketing of eggs, wool, etc. Bulletins of the Health of Animals Branch, with regulations as to: contagious abortion; rabies; sheep scab; actinomycosis; anthrax; glanders; hog cholera; maladie du coit; tuberculosis; foot-and-mouth disease; quarantine; and meat inspection. Bulletins and reports of the Seed Branch as to seed-testing, the production and use of seed grains, the Seed Control Act, the Feeding Stuffs Act and the Fertilizers Act. Bulletins and circulars of the Entomological Branch and instructions to importers of nursery stock. Fruit Branch reports relating to the marketing of fruits and vegetables and their preservation, the Fruit and Honey Act and the Maple Sugar Industry Act.

A pamphlet entitled "List of Publications" contains a list of the publications of the Department, numbering more than 400. These publications include, in addition to the reports, bulletins and pamphlets on field crops, live stock, dairying, orchard and garden, animal, insect and plant diseases, bee-keeping, poultry, and miscellaneous topics. With few exceptions, the publications of the Department are free on application to its Publicity and Extension Branch.

**Auditor General.**—Annual Report.

**Board of Railway Commissioners for Canada.**—Annual Report. Pamphlet containing Judgments, Orders, Regulations and Rulings, issued fortnightly.

**Civil Service Commission.**—Annual Report; Classification of the Civil Service of Canada, revised up to Dec. 1, 1930; Regulations of the Civil Service Commission; How Appointments are made in the Public Service; Examinations for Clerks, Stenographers and Typists; Examinations for Customs Service; Examinations for Postal Service; Examinations for Junior Trade Commissioners.

**Dominion Fuel Board.**—The Dominion Fuel Board was created in 1922 primarily to instigate a thorough study of the underlying causes of recurring fuel shortages in Canada and of the methods by which they might be counteracted. It is composed of officers of



the Department of Mines and of the Interior and the co-operation of both Departments is given to the Board in its investigations. Partly as a result of the investigations and recommendations of the Board and of the publicity given to its findings, diversified sources of fuel supply have been developed and fuel shortages are no longer experienced. The Board has been instrumental in enabling Canadian coal to find markets in territory previously supplied from foreign sources. At the present time the work of the Board covers continued investigation of the fuel situation in relation to Canada; the Board also administers the Domestic Fuel Act, and the Orders in Council providing assistance to the coal industry. The following reports and publications have been issued: Interim Report of the Dominion Fuel Board (1923); Central and District Heating—Possibilities of Application in Canada, by F. A. Combe (1924)<sup>1</sup>; Coke as a Household Fuel in Central Canada, by J. L. Landt (1925)<sup>1</sup>; The Smoky River Coal Field, by James McEvoy (1925)<sup>2</sup>; Coking Experiments on Coals from the Maritime Provinces, by B. F. Haanel and R. E. Gilmore (1926)<sup>3</sup>; Instructions for Burning Coal, Coke and Peat (1927)<sup>3</sup>; Tests of Various Fuels Made in a Domestic Hot Water Boiler, by E. S. Malloch and C. E. Baltzer (1927), revised 1929<sup>3</sup>; Why you Should Insulate your Home, by G. D. Mallory (1927)<sup>4</sup>; Industrial Fuel and Power Statistics for Ontario, Calendar Year 1925, by E. S. Malloch and C. E. Baltzer (1928)<sup>5</sup>; Dominion Fuel Board, Second Progress Report, 1923-28 (1928); Humidity in House Heating, by E. S. Martindale (1929)<sup>4</sup>; Cards bearing instructions on "How to Burn Coke"; Comparison of the Cost and Convenience of House Heating with Various Fuels, by E. S. Malloch (1929)<sup>1</sup>; The Insulation of New and Old Houses, by G. D. Mallory (1932)<sup>6</sup>; Graph Showing the Supply and Distribution of Coal in Canada, 1923-1931 (1932); Graphs Showing Operating Costs and Revenues of Canadian Coal Mining Districts for 1931, 1932 and 1933; Fuels Sold for Domestic Purposes in Ontario and Quebec, 1926<sup>1</sup>; Fuels Sold for Domestic Purposes in Ontario, Quebec and Manitoba, 1927<sup>1</sup>; Fuels Distributed for Domestic Heating in the Maritimes, Ontario, Quebec and Manitoba, 1928 and 1929<sup>1</sup>; Fuels Distributed for Domestic Heating in Quebec, Ontario and Manitoba for 1930, 1931 and for the period 1928-1932<sup>1</sup>; Petroleum Fuels in Canada, 1930, '31, '32, by J. M. Casey (1934)<sup>3</sup>.

**External Affairs.**—Annual Report. Annual Treaty Series. British and Foreign Government Representatives in Canada. Report of the Canadian Delegates to the Assembly of the League of Nations.

**Finance.**—Annual Report on the Public Accounts of the Dominion of Canada. Monthly Statements of the Chartered Banks of Canada. Estimates. Particulars of Dominion of Canada Loans Outstanding.

**Fisheries.**—(Publications marked \* are available in both English and French editions.) —\*Annual Report, including Fish Culture Report. Annual Statistical Report (contains both English and French sections). \*Fish Culture Report. Popular Account of a Number of Canadian Fishes—A. Halkett. \*Canada's Fisheries. Map of the Atlantic Coast Provinces showing the Inshore and Deep-sea Fishing Grounds. Statistics of the Haddock Fishery in North American Waters—A. W. H. Needler. Statistics of the Catch of Cod off the East Coast of North America, 1926—O. E. Sette. Statistics of the Mackerel Fishery off the East Coast of North America, 1804 to 1930—O. E. Sette and A. W. H. Needler. Fisheries Investigations in Hudson and James Bays and Tributary Waters, 1914—Melville, Lower and Comeau. Discoloration, Smut or Blackening of Canned Lobsters—Harrison and Hood. Historical Account of the Lobster Canning Industry—R. H. Williams. \*Fish Canning in Canada. Fish and Chips Shops. \*Fisheries News Bulletin (monthly). \*The Salmon Fishery of British Columbia. Report on Fisheries Investigations in Hudson Bay, 1930. \*Summary of the Report by Messrs. Cockfield, Brown and Company, Limited, on the Marketing of Canadian Fish and Fish Products. \*Oyster Farming on the Atlantic Coast of Canada. Hardening Mud Bottoms for Oyster Culture (mimeographed). \*Red Discolouration of Cured Codfish. \*Factors in the Shipment of Live Lobsters from Eastern Nova Scotia. Investigations into the Natural History of the Herring—Hjort. \*Fish and How to Cook It. \*The Life of the Atlantic Salmon. \*Proceedings of the North American Council on Fishery Investigations, 1921-1930. \*Report of the Royal Commission Investigating the Fisheries of the Maritime Provinces and the Magdalen Islands, 1927. \*The Storage of Oysters—A. W. H. Needler. Check List of the Fishes of the Dominion of Canada and Newfoundland, illustrated (\$2.00)—A. Halkett.

**Geographic Board of Canada.**—18th Report, containing all decisions to Mar. 31, 1924; 19th Report, containing all decisions from April 1, 1924, to July 31, 1927, with supplements numbers 1 to 12; "Place-Names of Alberta", 1928, 25 cents; "Place-Names of Manitoba", 1931; "Meaning of Canadian City Names", 1922; "Place-Names on Magdalen Islands, Quebec", 1922; "Place-Names of Prince Edward Island with Meanings", 1925, 25 cents;

<sup>1</sup>Published by the Dominion Fuel Board in co-operation with the Mines Branch, Department of Mines. <sup>2</sup>Published by the Dominion Fuel Board in co-operation with the Geological Survey, Department of Mines. <sup>3</sup>Published by the Mines Branch, Department of Mines, in co-operation with the Dominion Fuel Board. <sup>4</sup>Published by the Natural Resources Intelligence Bureau, Department of the Interior, for the Dominion Fuel Board. <sup>5</sup>Published by the Mines Branch, Department of Mines, in co-operation with the Dominion Fuel Board and the Dominion Bureau of Statistics. <sup>6</sup>Published by the National Development Bureau, in co-operation with the Dominion Fuel Board.



"Place-Names in Thousand Islands, St. Lawrence River", 1910; "Place-Names on Anticosti Island, Quebec", 1922; Catalogue and Graphical Index of Maps in the Geographic Board Library, two volumes, 1922, supplement, 1925.

**Indian Affairs.**—Annual Report. Indian Act, (c. 38, R.S.C., 1927). Schedule of Indian Reserves, 1928, *price \$1*. Indian Treaties and Surrenders, Vols. I, II, III, *price \$15*. Census of Indians in Canada, 1934.

**Insurance.**—Quarterly Statement showing List of Registered Companies. Annual Abstract of Statements of Insurance Companies in Canada (subject to correction). Annual Reports of the Insurance Department, Vol. I (Fire and Miscellaneous), Vol. II (Life Companies and Fraternal Benefit Societies). Annual List of Securities held by Insurance, Trust and Loan Companies in Canada, with Department's Valuation thereof. Abstract of Statements of Loan and Trust Companies in Canada. Annual Report of Loan and Trust Companies incorporated by the Dominion.

**Interior.**—Annual Report. The Department of the Interior issues publications dealing with the work of the following branches: National Parks Branch, including Historic Sites and Migratory Birds. Dominion Forest Service. Topographical and Air Survey Bureau. Dominion Water Power and Hydrometric Bureau. Geodetic Survey of Canada. International Boundary Commission. Dominion Lands Administration, including Northwest Territories and Yukon. Dominion Observatory, Ottawa. Dominion Astrophysical Observatory, Victoria. The publications of the Department were published in detail at pp. 970-978 of the 1932 Year Book. Reports on the work of the above branches may be had, if available, upon application to the branch concerned, Department of the Interior, Ottawa, Canada.

**International Boundary Commission.**—*Reports.*—Joint Report upon the Survey and Demarcation of the Boundary between the United States and Canada from the source of the St. Croix River to the Atlantic Ocean, 1934, *\$5*; Joint Report upon the Survey and Demarcation of the Boundary between the United States and Canada from the source of the St. Croix River to the St. Lawrence River, 1925, *\$5*; Report of the International Waterways Commission upon the International Boundary between the Dominion of Canada and the United States, through the River St. Lawrence and the Great Lakes, with full set of 30 maps, 1915, *\$7.50*; Joint Report upon the Survey and Demarcation of the Boundary between the United States and Canada from the Northwesternmost Point of Lake of the Woods to Lake Superior, 1931, *\$5*. Joint Report upon the Survey and Demarcation of the Boundary between the United States and Canada from the Western Terminus of the Land Boundary along the 49th Parallel, on the west side of Point Roberts, through Georgia, Haro and Juan de Fuca Straits, to the Pacific Ocean, with accompanying Chart, 1921, *\$5*; Joint Report upon the Survey and Demarcation of the Boundary between the United States and Canada along the 141st Meridian from the Arctic Ocean to Mount St. Elias, 1918, *\$5*. *Maps.*—From the source of the St. Croix River to the Atlantic Ocean, 18 sheets, various scales, sizes 26 by 38 inches, *50 cents each*; from the St. Lawrence River to the source of the St. Croix River, 61 sheets and index sheet, various scales, 26 by 38 inches, *50 cents each*; from the St. Lawrence River at St. Regis to the head of Pigeon Bay in Lake Superior, 29 sheets and index sheet, International Waterways Commission, various scales 29½ by 36 inches, *25 cents each*; Northwesternmost Point of Lake of the Woods to the head of Pigeon Bay in Lake Superior, 36 sheets and index sheet, various scales, 26 by 38 inches, *50 cents each*; 49th Parallel, Point Roberts to Northwesternmost Point of the Lake of the Woods, 59 sheets, index and profile sheets, scale 1:62,500, size 15 by 30 inches, sheets 1 to 19, *50 cents each*, sheets 20 to 59, *25 cents each*; west side of Point Roberts through Georgia, Haro and Juan de Fuca Straits to the Pacific Ocean, 1 sheet, scale 1:200,000, 28 by 41 inches, *50 cents*; Cape Muzon to Mount St. Elias, 13 sheets 25 by 29 inches, scale 1:250,000, sheets 1 and 2 not yet published, *50 cents each*; 141st Meridian from the Arctic Ocean to Mount St. Elias, 38 sheets, scale 1:62,500 with profile sheet, index sheet and special Arctic Coast sheet, size 18 by 27½ inches, *25 cents each*; Mount St. Elias to White River sheet, scale 1:250,000, size 19 by 28 inches, *25 cents*.

These reports or maps may be obtained on application to the International Boundary Commission, Department of the Interior, Ottawa. Cheques should be made payable to the Receiver General of Canada.

**Justice.**—Annual Report of the Superintendent of Penitentiaries.

**King's Printer and Controller of Stationery.**—The *Canada Gazette*, published weekly, with occasional supplement and extras; subscription, in Canada and United States, *\$3 per annum* payable in advance, single copies *20 cents each*, other countries *\$10 per annum* and *25 cents per single copy*. Judgments of the Board of Railway Commissioners, semi-monthly, *\$3 per annum*, single copies, *20 cents*. Canada Law Reports, published monthly, *yearly subscriptions, \$6*. Revised Statutes of Canada, 1927 (5 vols.), *\$10*. Annual Statutes, 1928-34, *\$5 each*. Acts, Public and Private, with Amendments to date, *10 cents to \$1 per copy*. Canadian Postal Guide, *\$1 paper cover, \$1.50 cloth cover*; including supplements, additional *25 cents*. Parliamentary Debates, "Hansard", issued daily during session French and English, *\$3 per session each* for House of Commons and Senate Debates; single copies, *5 cents*. Prices of bluebooks are in nearly every case printed upon the front cover

and are based practically on cost. They may be ordered direct from the King's Printer, Ottawa. A catalogue of official publications of the Parliament and Government of Canada is issued regularly once a year with supplements when required and copies may be obtained from the King's Printer, Ottawa.

**Labour.**—*Monthly.*—The *Labour Gazette* (published in English and French) at a subscription price of 20 cents per annum. *Annually.*—Report of the Department of Labour (including: Reports of Proceedings under the Industrial Disputes Investigation Act, Conciliation and Labour Act, Employment Offices Co-ordination Act, Technical Education Act, Government Annuities Act, Combines Investigation Act, Old Age Pensions Act, Fair Wages and Eight-Hour Day Act, and the Relief Legislation). Labour Legislation in Canada as existing on Dec. 31, 1928 (a supplementary report thereto on Labour Legislation is published annually in February or March). Labour Organization in Canada. Wages and Hours of Labour in Canada. Prices in Canada and other Countries. Strikes and Lockouts in Canada and other Countries. *General Reports.*—Report of Royal Commission on Industrial Relations, bound with Report of Proceedings and Discussions of National Industrial Conference, 1919. Hours of Labour in Canada and other Countries, 1923. Report of Commission appointed under Order in Council (P.C. 1929), Sept. 22, 1923, to inquire into the Industrial Unrest among the Steel Workers at Sydney, N.S. Judicial Proceedings respecting Constitutional Validity of the Industrial Disputes Investigation Act, 1907, and Amendments of 1910, 1918, 1920 and 1925. The Employment of Children and Young Persons in Canada. Trade Union Law in Canada. *Reports of Investigations under the Combines Investigation Act.*—(1) Investigation into Alleged Combine in the Distribution of Fruits and Vegetables in Western Canada, 1925; (2) Investigation into Alleged Combine amongst Coal Dealers at Winnipeg and other places in Western Canada, 1925; (3) Investigation into Alleged Combine limiting Competition in the Marketing of New Brunswick Potatoes, 1925; (4) Investigation into Alleged Combine in the Manufacture and Sale of Bread in the City of Montreal, 1926; (5) Investigation into Alleged Combine in the Distribution of Fruits and Vegetables produced in Ontario, 1926; (6) Investigation by Registrar into the Proprietary Articles Trade Association, 1926; (7) Investigation by Commissioner into the Proprietary Articles Trade Association, 1927; (8) Report of the Commissioner on the Amalgamated Builders' Council, 1929; (9) Report of Commissioner on the Electrical Estimators' Association, 1930; (10) Report of Registrar into Alleged Combine in the Bread-Baking Industry in Canada, 1931; (11) Report of Commissioner on Alleged Combine in the Motion Picture Industry in Canada, 1931. *Bulletins in Industrial Relations Series.*—(1) Joint Councils in Industry; (2) Report of a Conference on Industrial Relations, 1921; (3) Joint Conference of the Building and Construction Industries in Canada, 1921; (5) Canada and the International Labour Conference; (7) Canadian Railway Board of Adjustment, No. 1, Second Report; (8) National Conference Regarding Winter Employment in Canada, 1924; (9) Canadian Railway Board of Adjustment, No. 1, Third Report; (10) Canadian Railway Board of Adjustment, No. 1, Fourth Report; (11) Government Intervention in Labour Disputes in Canada; (12) Canadian Railway Board of Adjustment, No. 1, Fifth Report.

**Marine.**—Annual Report. List of Canadian Shipping. Reports of Expeditions to Hudson Bay, Northern Waters and Arctic Archipelago. List of Lights, etc., in Canada: (a) Pacific Coast; (b) Atlantic Coast; (c) Inland Waters.

*Charts and Publications of the Canadian Hydrographic Service.*—Catalogue of Marine Charts, Sailing Directions, Tidal Information and other Canadian Government publications of interest to mariners (free). *Pilots.*—(Price \$1 per copy payable in advance by P.O. order, express order or marked cheque, only.) Gulf of St. Lawrence Pilot, 1934, St. Lawrence Pilot (below Quebec), comprising sailing directions from cap des Rosiers to Quebec, 5th edition, 1929. Supplement No. 2 to above, 1933. St. Lawrence River Pilot, Quebec to Montreal and Richelieu River, 1931. Supplement No. 1 to above, 1933. St. Lawrence Pilot, Montreal to Kingston and Ottawa River, 1933. Great Lakes Pilot, Vol. II (Lake Huron & Georgian Bay), 1933. Great Lakes Pilot, Vol. I (Lakes Ontario, Erie and St. Clair and Welland Canal, Niagara, Detroit and St. Clair Rivers, 1933). Sailing directions for the Canadian shores of lake Superior, 1st edition, 1922. Supplement No. 2 to the above, 1931. Sailing directions for lake Melville and approaches (Coast of Labrador), 1931. Sailing directions for the Hudson Bay route, 1933. British Columbia Pilot, Vol. I, southern portion of the coast of British Columbia from Juan de Fuca strait to cape Caution including Vancouver I. and inner passages, 1st edition, 1933. British Columbia Pilot, Vol. II, northern portion of the coast of British Columbia from cape Caution to Portland inlet and Queen Charlotte islands, 1st edition, 1930. Saint John river Sailing Directions, 1934. Navigating charts. *Reports of the International Waterways Commission.*—On the International Boundary Line through the St. Lawrence river, Great Lakes and connecting waters, 1915. *Tidal and Current Survey Reports.*—(issued free of charge)—Currents in the gulf of St. Lawrence, including the Anticosti region, Cabot strait and Northumberland strait. Currents of the southeastern coasts of Newfoundland (out of print). Currents in Belle Isle strait (temporarily out of print). Currents in the entrance to the St. Lawrence estuary. Tables of hourly directions and velocity of currents and time of slack water in the bay of Fundy. Tide levels and datum planes on the Pacific coast of Canada. Tide levels and datum planes in Eastern Canada, giving the levels in 86 harbours and other localities. Tides at the head of the



bay of Fundy, with diagrams. Tidal investigations and results; Arctic tides, with map. Tides and tidal streams; a general description of the various types of tide and the behaviour of currents, with plates. Temperatures and densities of the Waters of Eastern Canada, with maps. *Tide Tables*.—(issued free of charge)—Tide tables for the Pacific coast of Canada, including: Juan de Fuca strait, the strait of Georgia, and the northern coast with data for slack water in the navigable passes and narrows and information on currents. Tide Tables for the Atlantic coast of Canada, including: the river and gulf of St. Lawrence, the Atlantic coast, the bay of Fundy, Northumberland and Cabot straits, Hudson bay, and information on currents. Abridged edition for Quebec, Father point and the St. Lawrence river. Abridged edition for Saint John, N.B., and the bay of Fundy (with time of high water at Windsor, N.S.). Abridged edition for Halifax, N.S. and Sydney, N.S. Abridged edition for Charlottetown, P.E.I., Pictou, N.S., St. Paul I. with tidal differences for north shore of Prince Edward I., Sydney, Northumberland strait, Cape Breton, Magdalen Is., etc. Abridged edition for Vancouver, Sand Heads and the strait of Georgia, B.C. Abridged edition for Prince Rupert, B.C., with tidal differences for the northern coasts of British Columbia. Slack water tables for the strait of Canso and Great Bras d'Or lake, N.S., Slack water tables for first Narrows, Vancouver harbour, Active pass and Turn point, B.C. (Mineograph copies of tide tables for Port Nelson.)

*Charts of the Canadian Hydrographic Survey*.—(Price 50 cents each.) Nearly four hundred and fifty charts and plans are published of the Atlantic coast and its harbours, Hudson bay, Hudson strait and harbours and anchorages, the St. Lawrence river, the Ottawa river, lake Ontario and harbours, lake Erie and harbours, lake Huron and Georgian bay and harbours, lake Superior and harbours, lake of the Woods, lake Winnipeg, Nelson river, Great Slave lake, Pacific coast and harbours. There is also a number of International Waterways Commission charts, not intended for navigation.

*Radio Branch*.—Obtainable from the Director, Radio Branch, Department of Marine, Ottawa.—Map showing radio stations operated as Aids to Navigation, 1935 (25 cents); British Postmaster-General's Handbook for Wireless Telegraph Operators (25 cents); Official List of Radio Stations in Canada (25 cents); Kilocycle-Metre Conversion Chart (10 cents); Radiotelegraph Act and Regulations issued thereunder (10 cents); Pamphlet containing Extracts from the Radiotelegraph Act and Regulations issued thereunder with reference to Amateur Experimental Radio Stations (free); Pamphlet containing Examination Procedure for Certificates of Proficiency in Radio for Commercial Operators (free).

Obtainable from The King's Printer, Government Printing Bureau, Ottawa.—International Telecommunication Convention of Madrid, 1932, together with the Radio Communication Regulations annexed thereto (25 cents); Radiotelegraphy Requirements for Ships registered in Canada and engaged on international voyages in accordance with the Safety of Life at Sea and Loadline Conventions Act, 1931, and the Regulations issued thereunder (10 cents); Bulletin No. 2 (1932) Radio Inductive Interference (35 cents); Supplement "A" (1934) to Bulletin No. 2 (15 cents).

**Mines.**—The scientific and investigatory work of the Department of Mines, which is chiefly concerned with the development of the Dominion's mineral industries, is carried on by the Department's four principal branches—the Bureau of Economic Geology (with which is associated the Geological Survey), the Mines Branch, the National Museum of Canada and the Explosives Division.

The Bureau of Economic Geology (and the associated Geological Survey) carries on areal and economic investigations and research work in geology and mineralogy; the Mines Branch carries on field, laboratory, and industrial investigations covering the various phases of the mining and metallurgical industries from the primary occurrence of the ores to the utilization of the finished products; the National Museum of Canada carries on scientific investigations in all branches of natural history; and the Explosives Division, under the provisions of the Explosives Act (R.S.C., 1927, c. 62) has supervision of the manufacture, testing, storage and importation of explosives and issues the licences and permits authorized by the Act.

The Department of Mines publishes an annual administrative report covering the activities of the whole Department, and occasional pamphlets illustrating the services rendered the mining and metallurgical industries. Each of the branches publishes annual reports in addition to memoirs and bulletins on special investigations and districts.

*Bureau of Economic Geology.*—The Geological Survey from 1842 to 1904 published annual volumes. From 1904 to 1910, upwards of 80 reports were issued, all separately. Since then the publications have consisted of memoirs and bulletins appearing at irregular intervals, an annual summary report and miscellaneous publications, including geological and topographical maps, geological guide books and handbooks. The subjects dealt with include areal and economic geology of particular districts, mineralogy, palæontology and related topics. In 1926 the first volume of a new Economic Geology Series was published, and further volumes of this series have since been issued. A list of the reports published by this branch may be obtained on application to the Director, Bureau of Economic Geology, Ottawa.

The National Museum of Canada has published a series of *Museum Bulletins* in many branches of natural history. A list of these may be obtained on application to the Director, National Museum of Canada, Ottawa.

*The Mines Branch*, since its inception in 1908, has published annual summary reports covering the investigations of the Divisions of Mineral Resources, Ore Dressing and Metallurgy, Fuels and Fuel Testing, Ceramic and Road Materials and Chemistry. More detailed and comprehensive reports have also been published by this branch, dealing with the technology of most of the economic minerals of Canada. A list of the Mines Branch reports may be had on application to the Director, Mines Branch, Ottawa.

*The Explosives Division* has published annual reports since 1919 and a number of pamphlets on the proper care and handling of explosives. Copies may be obtained on application to the Chief Inspector of Explosives, Department of Mines, Ottawa.

The publications of the Department of Mines cover all phases of mining from preliminary explorations and surveys of unmapped territory through the mining, milling, smelting and refining of the ores to the marketing and utilization of the finished product. Most of these reports and maps may be obtained free of charge by those interested on application to the Deputy Minister of Mines, Ottawa, or to the Directors of the Branches concerned, whose addresses are given above. Many of these reports may be had in French translations.

**National Defence.**—Annual Report; List of Officers, Defence Forces of Canada, Naval, Military and Air Services; Canadian Navy List; Naval General Orders; General Orders, Militia and Air Services; Militia Orders; Air Regulations.

**National Research Council.**—*Annual Reports.*—Reports of the National Research Council for the years 1917-18 to 1933-34. *Technical Reports.*—(For Nos. 1 to 21 see p. 1042 of the 1927-28 Year Book. Nos. 3, 4, 6, 8, and 12 are now out of print.) No. 22, An Experimental Study of Sieving, by J. B. Porter, Ph.D., D.Sc.; No. 23, The Storage of Apples in Air-cooled Warehouses in Nova Scotia, by S. G. Lipsett, Ph.D., covering investigation by Associate Committee on Fruit Storage; No. 24, The Drying of Wheat, covering an investigation by the Associate Committee on Grain Research; No. 25, The Drying of Wheat (Second Report), by E. Stansfield and W. H. Cook, covering an investigation under the Associate Committee on Grain Research; No. 26, Weed Survey of the Prairie Provinces, by J. M. Manson, prepared under the auspices of the Associate Committee on Weed Control; No. 27, Weeds and Their Control, a popular account prepared under the auspices of the Associate Committee on Weed Control, by G. P. McRostie, L. E. Kirk, G. Godel, W. G. Smith and J. M. Manson; No. 28, Report on Comparative Feeding Values for Livestock of Barley, Oats, Wheat, Rye and Corn, by E. W. Crampton. *Bulletins.*—(For Nos. 1 to 12, see p. 1042 of the 1927-28 Year Book. Nos. 3, 4, 6, 7, 9, and 11 are now out of print.) No. 13, Interim Report on Protein Content as a Factor in Grading Wheat, prepared by the Associate Committee on Grain Research; No. 14, Report on Inquiry in Europe Regarding the Feasibility of Using Protein Content as a Factor in Grading and Marketing Canadian Wheat, by R. Newton, Ph.D.; No. 15, Review of Literature dealing with Health Hazards in Spray Painting, submitted by the Associate Committee on Spray Painting. *Periodical*—Canadian Journal of Research, published monthly since May, 1929.

**National Revenue.**—Annual Report, containing statements relative to Imports, Exports, Excise and Income. Annual Report of Shipping. National Revenue Review (monthly).

**Pensions and National Health.**—(2) The Canadian Mothers' Book; (12) Canadians Need Milk; (19) Athlete's Foot; (23) Venereal Diseases—Diagnosis and Treatment; (24) Information for Men—Syphilis and Gonorrhoea; (25) Information for Young Women about Sex Hygiene; (26) Information for Parents—Teaching of Sexual Hygiene to Children; (27) Prevention of Blindness in Babies; (28) Periodic Medical Examinations; (29a) Goitre—Facts for the General Public; (30) How to Build Sound Teeth; (31) What You Should Know About Tuberculosis; (32) Smallpox and Vaccination; (33) Narcotism in Canada; (51) Be Prepared to Prevent Infantile Paralysis; Septic Tanks.

(NOTE.—Publications 23 and 28 are for the *Medical profession only*.)

**Post Office.**—Annual Report of the Postmaster General. Official Postal Guide. Regulations as to Rural Mail Delivery. Booklet of Postal Information.

**Public Works.**—Annual Report.

**Railways and Canals.**—Annual Report of the Department; Canals of Canada; The Trent Canal System; Canal Rules and Regulations; Port Colborne Elevator Tariff and Regulations; Prescott Government Grain Elevator Tariff.

**Secretary of State.**—Annual Report. The Arms of Canada.

**Trade and Commerce.**—(NOTE.—Requests for those publications marked with an asterisk should be addressed to the King's Printer; the remaining publications may be obtained from the Deputy Minister, Department of Trade and Commerce.) \*Annual Report of the Dept. of Trade and Commerce, 25 cents; \*Annual Report of the Board of Grain Commissioners for Canada, 25 cents; \*Annual Report of Electricity and Gas, 25 cents; Annual Reports of Dominion Grain Research Laboratory; Electrical Standards and their application to Trade and Commerce; \*List of Licensed Elevators, etc., 50 cents; Motion Pictures (catalogue of), 25 cents; Precious Metals Marking Act, Office Consolidation, 10 cents.



*Publications of the Commercial Intelligence Service.*—NOTE.—Publications of the Commercial Intelligence Service are compiled with a view to furnishing Canadian exporters with information respecting the possibilities for the sale of Canadian goods abroad, the nature of the competition to be encountered, Customs requirements, etc., and are not intended for general distribution. Although subscribers to the Commercial Intelligence Journal are entitled to receive such reports free of charge, in all other cases their distribution is controlled by the King's Printer, who fixes a price therefor as indicated in the following list: Commercial Intelligence Journal Weekly (in English and French), containing Reports of Trade Commissioners and other Commercial Information. Annual subscription: In Canada, \$1; single copies, 5 cents. Outside Canada, \$3.50; single copies, 10 cents. (NOTE.—Subscribers to the Commercial Intelligence Journal are entitled to receive all other publications of the Commercial Intelligence Service free of charge); Australian Market for Fish Products (1931); Foreign Markets for Canadian Certified Seed Potatoes (1930), 25 cents; French-Canadian Homespun Industry; Greece as a Market (1931), 25 cents; Invoice Requirements—Leaflets covering countries included in the territories assigned to Trade Commissioners—are available to exporters free of charge. Yugoslavia as a Market (1930), 25 cents; Map of the World showing Trade Routes (1930 Edition); Markets of Central America (1929), 25 cents. Points for Exporters—Leaflets covering countries included in the territories assigned to Trade Commissioners are available to exporters free of charge. Sweden as a Market for Canadian Products (1928), 25 cents; Switzerland as a Market (1929), 25 cents; Trade of the African Sub-Continent (1928), 25 cents; Trade Possibilities of the Baltic States (1929), 25 cents; Trading with Colombia and Venezuela (1928), 25 cents.

*Dominion Bureau of Statistics.*—For the publications of the Dominion Bureau of Statistics see pp. 1147 to 1157.

**Reports of Royal Commissions.**—Report of the Royal Commission on the Transfer of the Natural Resources of Manitoba, 1929, Price 25c.; Report of the Royal Commission on Technical and Professional Services, 1930, Price 15c.; Report of the Commission of Enquiry into Trade in Grain Futures, 1931, Price 25c.; Report of the Royal Commission to Enquire into Railways and Transportation in Canada, 1931-32, Price 75c.; Report of the Royal Commission on Banking and Currency in Canada, 1933, Price 50c.; Report of the Royal Commission on the Natural Resources of Alberta, 1935, Price 25c.; Report of the Royal Commission on the Natural Resources of Saskatchewan, 1935, Price 25c.; Report of the Royal Commission on Price Spreads, 1935, Price \$1; Report of the Royal Commission on Financial Arrangements between the Dominion and the Maritime Provinces, 1935, Price 10c.

**Other Reports.**—National Parks Survey, 1931-32, Price \$1.

## Section 4.—Publications of Provincial Governments.

### PRINCE EDWARD ISLAND.

*Journal of the Legislative Assembly.* Statutes. General Index of Statutes of P.E.I., 1869-1928. *Royal Gazette.* Annual Reports of the Provincial Auditor on Public Accounts, Departments of Public Works and Highways, Education, Agriculture, Falconwood Hospital (for the Insane) and Provincial Infirmary, Vital Statistics and Public Health.

### NOVA SCOTIA.

*Royal Gazette.* Statutes, Journal and Proceedings of the House of Assembly. Journal of Education. Manual of the Public Instruction Acts and Regulations of the Council of Public Instruction. Annual Reports on Public Accounts, Public Health—Vital Statistics, Statistics of Incorporated Towns and Municipalities, Education, Fire Marshal, Mines, Provincial Museum, Rural Telephones, Humane Institutions, Public Charities (including reports of hospitals and the Sanatorium), Penal Institutions, Child Welfare, Temperance, Printing, Legislative Library, Public Utilities Board and Workmen's Compensation Board, Provincial Secretary, Department of Agriculture (including Factory Inspector), Department of Highways, Department of Lands and Forests, and the Power Commission. Special Report of Royal Commissioner on the Apple Industry. Duncan Coal Commission. Special Report on Gaols. Special Economic Inquiry Report by Jones Commission. Report of Milk and Cream Inquiry. Franchise Inquiry Report.

### NEW BRUNSWICK.

*Royal Gazette.* Statutes. Annual Reports of the Auditor General, of the Board of Health, of the Department of Education and Agriculture (including Horticulture). Annual Reports on Public Works, Crown Lands, the Hospital for the Insane, Report of the Jordan Memorial Tuberculosis Sanatorium at River Glade, Report of Women's Institutes, Report of the Workmen's Compensation Board, Report of Public Utilities Commission, Report of N.B. Hydro-Electric Power Commission, Boys' Industrial Home, Saint John, Report, and N.B. Liquor Control Board Report.

### QUEBEC.

(NOTE.—The titles of publications available in the English language are printed in English.)

**Attorney General.**—Annual List of Public Officers of the Province of Quebec.

**Municipal Affairs.**—Annual Report of the Minister of Municipal Affairs; Municipal Bulletin (monthly); List of Municipal Corporations (annual); Statistical Year Book; Educa-

tion Statistics; Financial Statistics of School Corporations; Municipal Statistics (annual); Judicial Statistics (annual); Statistics of the Penal Establishments (annual); Statistics of the Benevolent Institutions (annual); Meteorological Bulletin (monthly).

**Provincial Secretary.**—Annual Report of the Secretary and Registrar; Annual Report of the Provincial Bureau of Health; the *Quebec Official Gazette*, bilingual (weekly); The Statutes of the Province (annual); Revised Statutes of the Province (1925); Rapport de l'Archiviste (annual); Monuments commémoratifs de la province de Québec—P.-G. Roy; Report of the Director of Public Charities.

**Treasury.**—Annual Statement of Public Accounts; Annual Estimates; Annual Budget Speech; Annual Report on Insurance Companies; Annual Report on Mutual Benefit Associations; Annual Report on Trust Companies.

**Bureau of Revenue.**—Annual Report of the Quebec Liquor Commission; Annual Report on Motor Vehicles Registrations; Statistics of Automobile Accidents.

**Lands and Forests.**—Annual Report of the Minister; Circular No. 1, La rouille vésculaire du pin blanc—G.-C. Piché; Nomenclature of the Geographical Names in the Province of Quebec, Quebec Geographical Commission; Dictionnaire des Lacs et Rivières; Annual Report of the Quebec Streams Commission; Notes on the Forests of Quebec—G.-C. Piché; Forêts et chutes d'eau de la province de Québec; Rapport du Service de Protection; Tableau des forces hydrauliques concédées de 1867 à 1923 (Supplément 1923 au 7 avril 1930); Forests and Waterfalls; Quebec, Natural Resources.

**Agriculture.**—*Annual Reports.*—Department of Agriculture; Competition for Agricultural Merit; Dairymen's Association; Pomological Society; Society for Protection of Plants. *Bulletins.*—(1) Plans for Cheese and Butter Factories; (55) Poultry Raising in Towns and Villages; (40) How to plant your Fruit trees; (43) Bean Culture; (44) Vegetable Culture; (45) List of Presidents and Secretaries of Agricultural Societies; (67) Insectes nuisibles aux animaux de la ferme; (69) Enemies of Gardens and Orchards; (73) Instructions to School Farmers; (78) Farm Gas Engines; (87) La culture des pommes de terre; (89) The Drainage of Farm Lands; (90) Experiments with Grain Crops; (92) The Corn Borer; (95) Comptabilité Agricole; Farm Account Book; (100) Soils Drainage; (104) Les engrais chimiques; (107) Maladies du bétail laitier; (108) Maladies du cheval; (109) Elevage du porc à bacon; (110) La pomme de terre; (111) Les abeilles; (112) Les bonnes semences; (114) La taille du pommier; (115) Vegetable garden; (116) L'alimentation du porc; (117) L'avortement contagieux; (118) Guide de la protection des cultures; (120) Cercles de jeunes agriculteurs; (121) Le cheval de ferme; (122) Culture du tabac; (123) Cueillette et emballage des pommes; (124) Arrosage du verger commercial (français et anglais); (125) Culture de la tomate, du piment et des aubergines; (126) Elevage des volailles; (127) Plantation d'un verger commercial; (128) Greenhouses, hotbeds and shelters; (129) Les cours d'eau municipaux; (130) Comment lutter contre le ver blanc; (131) Le pain de ménage; (132) La culture des fraises; (133) Cours d'agriculture; (134) L'industrie du sucre d'érable dans la province de Québec. *Circulars.*—(42) Sélection des troupeaux de volailles; (125) Guide des cercles de fermières; (65) Common weeds and their control; (66) Alfalfa growing in Quebec; (72) Loi des mauvaises herbes. *Miscellaneous.*—(107) Ventilation des étables; (108) Orientation de la culture maraîchère; (117, 118, 119) Plans de poulaillers; (136) Lois sur l'agriculture; (138) Lois-Conseil d'Agriculture; (159) Brochure—Mangeons du fromage; (164) Dairy farming; (165) Statuts et règlements des coopératives; (184) Tableau des mauvaises herbes; (291) Cent poules par ferme; (293) The Maple, Pride of Quebec.

**Highways.**—NOTE.—Publications marked (1) are bilingual; (2) Separate French and English editions; (3) English only.

(1) Annual Report of the Minister of Highways; (2) An Act Respecting the Roads Department (1934); (2) Tourist Bulletin (issued monthly); (1) Official Highway and Tourist Map (yearly); Tours in Quebec (80 pp. guide illustrated); (3) Montreal and the Laurentians (32 pp. guide illustrated); (3) Lake St. John—Chicoutimi—Saguenay (24 pp. illustrated); (3) The Gaspé Peninsula (32 pp. de luxe booklet); (3) Quebec Invites You, Welcome to the Province of Quebec (16 pp. illustrated booklet); (2) Gaspé Peninsula (260 pp.—complete guide—illustrated); (2) Along Quebec Highways (900 pp.—illustrated—Price \$2); (3) The St. Maurice Valley (24 pp. illustrated); Québec et ses Régions de Tourisme (24 pp. illustrated).

**Mines Branch.**—Esquisse géologique et minéraux utiles de la province de Québec (1927); Iron Ores of the Province of Quebec, by P. E. Dulieux (1915); Extracts from Reports on the District of Ungava, by T. C. Denis (1915); Report on the Copper Deposits of the Eastern Townships, by J. Austen Baneroff (1916); L'industrie de l'amiante dans la province de Québec (1917); Report on Gold Deposits of Lake Demontigny, by Ad. Mailhot (1922); Geological Sketch and Economic Minerals of the Province of Quebec (1924); Annual Reports on Mining Operations in the Province of Quebec.

**Colonization.**—Annual Report of the Minister; Le Guide du colon, 1932; Quebec Ready Reference, 1931.

**Labour.**—Minister's Report; Workmen's Compensation Act; Annual Report of the Workmen's Compensation Commission; Report of the Quebec Social Insurance Commission.

**Public Works, Game and Fisheries.**—Minister's Report; Statistics of Fire Losses in the Province; Fisher's Paradise; The Laurentide National Park; Elevage du rat musqué; Fur Farming in the Province of Quebec, 1921.

**Public Instruction.**—Code scolaire (1927); School Law (1927); An Act respecting the Department of Education (1925); Regulations of the Catholic Committee (1930); Regulations of the Protestant Committee (1926); Memorandum of Instructions to Teachers for Intermediate and High Schools (1925); Annual Report; Financial Statement of the Superintendent of Public Instruction (annual); *Mon premier livre* (1st and 2nd parts) (1900), a fresh edition of which is printed every year; *l'Enseignement primaire*; Educational Record; Yearly circulars containing Instructions to School Boards and School Inspectors; Course of English and French for English Catholic Schools (1926); Manual respecting the course of study in the Protestant Elementary Schools; List of authorized text books.

**Legislative Council.**—Agenda Paper of the Legislative Council; Votes and Proceedings of the Legislative Council; Journals of the Legislative Council; Rules and Regulations of the Legislative Council.

**Legislative Assembly.**—Agenda Paper of the Legislative Assembly; Votes and Proceedings of the Legislative Assembly; Journals of the Legislative Assembly; Sessional Papers, Departmental Reports and Returns to Orders and Addresses of the Legislative Assembly; Report of the Clerk of the Crown in Chancery on Elections (published after every general election); Report of the Librarian of the Legislature; Annotated Rules and Standing Orders of the Legislative Assembly of Quebec; Private Bills in the Legislative Assembly of Quebec (a manual containing the rules relative to); Government and Legislature; List of the Chairmen and Members of the Committees of the Legislative Assembly.

## ONTARIO.

**Agriculture.**—*Annual Reports.*—Minister of Agriculture; Agricultural College and Experimental Farm; Agricultural and Experimental Union; Stallion Enrolment Board; Agricultural Statistics; Vegetable Growers' Association; Entomological Society; Agricultural Societies; Horticultural Societies; Annual Report of Ontario Veterinary College. *Bulletins.*—(337) Parasites Injurious to Sheep; (338) Hints on Judging Live Stock, Poultry, Grains, Grasses and Roots; (342) Fire Blight; (343) New Fruits; (347) Hay and Pasture Crops; (348) Amateur Dramatics; (350) Warble Fly; (354) The Pear; (356) Insects attacking Fruit Trees; (357) Top Working and Repair Grafting, including Budding; (358) The European Corn Borer; (361) Farm Water Supply and Sewage Disposal; (363) Parasites injurious to Poultry; (364) Manures and Fertilizers; (366) Soy Beans in Ontario; (367) Pork on the Farm; (369) Vegetable Gardening; (373) Dairy Cattle; (374) Use More Ontario Honey; (375) Ontario-Grown Head Lettuce; (For previous bulletins, see p. 1046 of the 1927-28 Year Book.); (376) Weeds of Ontario; (377) Bee Diseases; (378) Bot Fly.

**Attorney General.**—Reports of Inspectors; Legal Officers; Registry Offices; Insurance; Division Courts. Annual Report of Commissioner of Provincial Police. Powers and Duties of Justices of the Peace in Ontario (handbook).

**Education.**—Annual Report of the Minister of Education. School Acts. Regulations and Courses of Study: (1) Public and Separate Schools; (2) Continuation Schools; (3) High Schools and Collegiate Institutes; Courses of Study and Examinations in Schools Attended by French-speaking Pupils; School Cadet Corps; General Announcement of Summer Courses; Text Book Regulations, including list of text books authorized and their prices; The list of school manuals with their prices; Summer Schools for training of Teachers; English-French Training Schools; Syllabus of Normal School Courses and Regulations for First and Second Class and Kindergarten-Primary Certificates; List of Teaching Days of High, Continuation, Public and Separate Schools; Recommendations and Regulations for Vocational Schools, etc.; Recommendations and Regulations for Agriculture and Household Science Departments; High School Entrance Examination Regulations; Annual Departmental Middle and Upper School Examinations; Announcement *re* the Carter Scholarships; The Penny Bank of Ontario; The School Attendance Acts and the Recommendations and Regulations and the Part Time Courses; The Consolidation of Rural Schools; Regulations for Consolidated Schools; Suggestions for Teachers of Subnormal Children; Accommodation, Equipment and Grants for Auxiliary Training Classes; Literature Selections for Departmental Examinations; Regulations, Medical and Dental Inspection, Public and Separate Schools; Schools and Teachers for the Province of Ontario, 1934; Bureau of Archives Report.

**Game and Fisheries.**—Annual Report, Department of Game and Fisheries; The Game and Fisheries Act and Regulations; Summary of the Game and Fisheries Act and Regulations; Feeding and Diseases of the Fox; The Mink in Captivity; Parasites of Fur-Bearing Animals; Hookworm Infection in Foxes; Studies on the Normal Blood of Foxes; Report of



the Special Fish Committee, 1928-1930; Report of the Special Game Committee, 1931-1933; The Small Mouthed Black Bass and its Conservation; The Maskinonge and its Conservation; The Speckled Trout and its Conservation.

**Health.**—*Acts.*—The Public Health Act and The Vaccination Act; The Venereal Diseases Prevention Act; The Cemetery Act; The Public Hospitals Act; The Private Hospitals Act; The Sanatoria for Consumptives Act; The Maternity Boarding House Act. *Regulations.*—Regulations for the Control of Communicable Diseases; Regulations Respecting Venereal Diseases; Regulations Respecting the Manufacture of Non-Intoxicating Beverages, Distilled and Mineral Water, and the Manufacture of Syrup, Wines and Brewed Beer; Regulations for the Sanitary Control of Lumber and Mining Camps; Regulations Governing the Construction and Management of Swimming Pools; Regulations re Cross Connection of Water Supplies. *Publications.*—Numerous pamphlets on The Baby, Cancer, Mental Hygiene Series (Habit Training, Home Training, Speech Training, Special Problems), Venereal Diseases, etc., may be obtained from the Ontario Department of Health, Toronto. A full list of these is published annually in the Health Almanac.

**Highways.**—Annual Report; Annual Proceedings, Ontario Good Roads Association; (15) Highway Traffic Act and Regulations; (19) General Plans for Steel Highway Bridges, 1917; (22) Report on Street Improvement, 1917; (34) The Planting and Care of Roadside Trees, 1923; (35) Public Commercial Vehicles Act, 1931, and Amendment, 1934; Public Vehicle Act and Regulations; Consolidated Highway Improvement Act, 1931; Official Government Road Maps of Ontario, free on application.

**Labour.**—*Legislation.*—Department of Labour Act; Factory, Shop and Office Building Act; Steam Boiler Act; Canadian Interprovincial Regulations for the Construction and Inspection of Boilers, Tanks and Apparatuses; Operating Engineers Act and Regulations Governing the Issuance of Certificates; Employment Agencies Act and Regulations Governing Employment Agencies; Apprenticeship Act and Regulations Governing the Training of Apprentices in the Building Trades; Regulations Respecting the Protection of Persons Working in Compressed Air; Regulations Respecting the Protection of Persons Working in Tunnels or Open Caissons; Minimum Wage Act; Orders of the Minimum Wage Board. *Reports.*—Annual Report of the Department of Labour, including the reports of the General Superintendent of the Ontario Government Offices of the Employment Service of Canada, Chief Inspector of Factories, Chief Inspector of Steam Boilers, Chairman of the Board of Examiners of Operating Engineers, and of the Inspector of Apprenticeship; Annual Report of the Minimum Wage Board. *Booklets.*—Department of Labour of Ontario; Why Certificates for Stationary and Hoisting Engineers?; Boilers, Engines, Turbines, Condensers, Pumps; Refrigeration and Air Compression; Combustion; Beginners' Book on Power Plant Operation; Survey of Industrial Welfare in Ontario.

**Lands and Forests.**—(Free distribution.) Annual Report. Folder on Northern Ontario Settlers' Lands and Colonization. Folder on Summer Homes, Tourists and Campers in Ontario. The Forest Trees of Ontario (25 cents). Woodlots of Ontario. Tree Planting, Ontario. Water Powers of Ontario (50 cents). The Ferguson Highway. The Sault Ste. Marie-Pembroke Road. Gathering Pine Cones. Trees for Schools. Northwestern Ontario Highways and Tourist Attractions. Forest Resources of Ontario.

**Mines.**—The Mining Act, R.S.O., 1927, with Amendments from 1928 to 1934 inclusive. Handbook—Ontario's Mines and Mineral Resources, Fifth Edition, 1931. Bulletin 98, Preliminary Report of the Mineral Production of Ontario in 1934; Report of Royal Ontario Nickel Commission, 1917; Report of Ontario Iron Ore Committee, 1923; Volume XXX, Part II, Ontario Gold Deposits; Volume XXXIII, Part II, 1924, Porcupine Gold Area; Final Report of Joint Peat Committee, 1925; Volume XXXVII, Part II, 1928, Kirkland Lake Gold Area; Volume XLIII, Part I, 1934, Statistical Review and Mines of Ontario in 1933; Bulletin No. 25, List of Publications (Third Edition), giving all reports issued up to March, 1932; Bulletins Nos. 80 and 93, Money and the World Crisis; Bulletin No. 83, Twenty-five Years of Ontario's Mining History; Prospector's Guide to Ontario Mining Fields, 1934.

**Premier.**—Reports of the Liquor Control Board of Ontario and the Temiskaming and Northern Ontario Railway Commission. Tourists' Handbook. Report of the Queen Victoria Niagara Falls Park Commission.

**Provincial Secretary.**—Annual Reports: Ontario Board of Parole; Prisons and Reformatories; Annual Report of the Secretary and Registrar of the Province of Ontario (this report is presented to the Legislative Assembly each year, but has not been printed for several years). The Companies Act, including the Extra-Provincial Corporations Act. The Mortmain and Charitable Uses Act and the Companies Information Act. The Marriage Act. Physicians' Pocket Reference to the International List of Causes of Death. Annual Report of Births, Marriages and Deaths. The Physicians' Pocket Reference to the International List of Causes of Death is published by the Dominion Bureau of Statistics but copies are kept in this Branch for purposes of distribution.

**Public Works.**—Annual Report of the Minister, with reports of the Deputy Minister, Architect, Engineer, Secretary and Accountant.



**Treasury.**—Annual Statements; Main, Supplementary and Further Supplementary Estimates of Expenditure; Public Accounts; Budget Address of Treasurer delivered in the Legislative Assembly; Auditors' Report; Report of the Board of Censors of Motion Pictures.

## MANITOBA.

**Agriculture.**—*Booklets.*—Annual Crop and Live Stock Reports. *Bulletins and Circulars.*—Alfalfa and Sweet Clover Growing in Manitoba; Sweet Clover; The Trench Silo; Making Silage in Manitoba; The Canada Thistle; Leafy Spurge; Noxious Weeds Act; How to Kill Couch Grass; Annual Forage Crops for Manitoba; Dog Mustard; Stinkweed and Common Wild Mustard; The Russian Thistle; The Rehabilitation of the Drought Area; An Agricultural Program for Southwestern Manitoba; Questions and Answers about the Sow Thistle; Control of Wild Oats; Preparing Grain for Exhibition Purposes; The Root Crop in Manitoba; Forage Crop Calendar; Prevention of Cereal Smuts; Growing Better Potatoes; Milk and Cream Tests; Cream Profits; Farm Butter-Making; Cheese-Making on the Farm; The Cream Separator on the Farm; Home Made Brooders; Hatching, Brooding, Rearing and Feeding Chicks; Horses in Manitoba; Sheep in Manitoba; Have You Dehorned your Market Cattle?; Producing Onions in Manitoba; Asparagus Growing in Manitoba; Growing Sweet Corn; Growing and Using Tomatoes; Manitoba Fruit List; Growing Raspberries in Manitoba; Making and Caring for Lawns; Use of Bulbs for Winter Bloom; The Peony; The Gladiolus; Shrubs for Manitoba; Success in Growing Annuals; Growing Vegetables in Manitoba; Vegetable Insects and their Control; Growing Better Rhubarb; The Gladiolus for Exhibition; Debates and Public Meetings; Meat-Curing Recipes; Help for the Home Dressmaker; Fitting and Alteration of Dress Patterns.

**Education.**—Annual Report; Consolidation of Schools; Program of Studies, Elementary and Senior; Public School Act; Regulations.

**Municipal Commissioner.**—Statistical information respecting the Municipalities of the Province; Tax Arrears and other Information, and list of names and addresses of Administrative and Health Officials of each Municipality. Report of Municipal and Public Utility Board. Manitoba Tax Commission.

**Public Works.**—Annual Report, included in Sessional Papers. Report of Insurance.

**Attorney General.**—Annual Report. Government Liquor Commission. Workmen's Compensation Board. Annual Report of Manitoba Telephone System.

**Provincial Treasurer.**—Public Accounts; Treasury Board Report; Estimates; Budget Speech; Report of Manitoba Farm Loan Association; Rural Credits Association Report.

**Provincial Secretary.**—*Manitoba Gazette*; Journals and Sessional Papers. Statutes of the Province.

**Mines and Natural Resources.**—Manitoba Mines and Minerals; Mining Maps; Sectional Land Maps.

**Health and Public Welfare.**—Annual Report; Manitoba Mother: Monthly Pre-natal and Post-natal letters; Manitoba Baby; Manitoba Child; Child Study Material for small community groups; Patterns for Infants' Layettes (*10 cents*); Regulations re Boarding Homes for Children, Maternity Homes, and Day Nurseries; Quarantine Regulations; The Common Cold; Measles; Scarlet Fever; Diphtheria; Diphtheria Immunization; Whooping Cough; Trachoma; Typhoid Fever; Health Training Material for Teachers.

Publications issued by the Dominion Department of Pensions and National Health, The Canadian Council on Child Welfare, The Canadian National Institute for the Blind, also used in educational service.

## SASKATCHEWAN.

**Agriculture.**—Annual Report of the Department of Agriculture. Annual Reports of Branches, etc.: Dairy, Live Stock, Field Crops, Statistics, Bee Division Report, Extension Department of College of Agriculture. Commission Reports: Live-Stock Marketing, Better Farming, Wheat Marketing. Bulletins and leaflets on Live Stock, Field Crops, Dairying, Farm Buildings, Tillage Methods, etc.

**Other Publications.**—Sessional Papers. Annual Reports: Bureau of Labour and Public Welfare; Department of Education; Department of Highways and Transportation; Department of Municipal Affairs; Department of Provincial Secretary; Department of Public Works; Department of Public Health; Department of Telephones; Department of Natural Resources; Local Government Board; Public Accounts; Cancer Commission; Research Foundation; Mental Hospitals; The *Saskatchewan Gazette*. By Bureau of Publications: Weekly News Bulletin; Pamphlets on Saskatchewan—Legislation, Natural Resources, etc.

## ALBERTA.

**Agriculture.**—Annual Report of the Department of Agriculture; The Ploughing Match; Sowing Good Seed; Weeds of Alberta; Weeds Poisonous to Live Stock; Soil Cultivation; Destruction of Gophers; Sheep in Alberta; School Fairs' Calendar; Agricultural Schools' Calendar; Turkey Breeding and Management; Fur-bearing Animals and their Management.

**Attorney General.**—Annual Report on Dependent and Delinquent Children.

**Education.**—Annual Report; Courses of Studies for Elementary Schools; Regulations *re* Public School Leaving Examinations; Regulations *re* Examinations for Secondary School Grades; Handbook for Secondary Schools; Promotion Tests for Grades V, VI, VII, VIII and IX; Departmental Examinations for Grades X-XII; Pamphlets on Picture Study; Architecture and Sculpture; Summer School Announcement; Courses of Studies and Examinations for Commercial Diplomas; Normal School Announcement; Night Class Instruction in Mining Centres; Technical Education in Mining Centres; Bulletin and Regulations covering School Buildings in Rural and Village School Districts; Series of Plans and Specifications for Teachers' Residences; Series of Plans for One- and Two-Roomed Schools, with Specifications; The Certification of Teachers in Alberta; Annual Announcement of the Provincial Institute of Technology and Art; Courses of Study for Pre-Vocational Classes; Courses of Study for Technical High Schools; School Act; Geography Manual for High Schools; Physical Education for Rural Schools; Physical Education for Secondary Schools; Rural Education in Alberta; High Schools Civics; Seat Work Problems for Junior Grades.

**King's Printer.**—*Alberta Gazette.*

**Land and Mines.**—Annual Report; Annual Report of the Chief Inspector of Mines; Alberta Oil Conditions, 1932; Handbook for information of public containing information on the following: the Survey System, Homestead Entries, Grazing on Provincial Lands, Hay Permits, Cultivation Permits, Irrigation, Leasing for Recreation Grounds or Exhibition Sites, Timber Licences and Permits, Timber Permit Berths, Fire-Killed Permit Berths, Damaged Timber Berths, Liability of Persons cutting Timber without Authority, Permit Dues, Telegraph and Telephone Poles, Mining Timber Dues, Persons Exempted from Timber Dues, Timber for Homesteads, Fur-Farming Leases, Issue of Permits to Mine Coal, Coal-Mining Leases, Petroleum and Natural Gas Regulations, Carbon-Black Permits, Placer Mining, Quartz Mining, Permits to remove Sand, Stone and Gravel from Beds of Rivers and Lakes, Dredging Leases, Disposal of Bar-Diggings, Alkali-Mining Regulations, Potash Regulations, Regulations for disposal of Bituminous Sand Deposits, Regulations for Leasing of Lands containing Limestone, Granite, Slate, Marble, Gypsum, Marl, Gravel, Sand, Clay, Volcanic Ash or any Building Stone, Forest Reserve Regulations, Fishing Regulations, Schedule of Fees.

**Municipal Affairs.**—Annual Report of Department; List of Alberta Municipalities; Report of the Alberta Assessment Commission Triennial Assessment, 1931-33.

**Public Health.**—Annual Report of Department; Annual Report on Vital Statistics. Bulletins issued monthly on various health subjects. Pamphlets regarding infectious diseases—Diphtheria, Scarlet Fever, Measles, Whooping Cough, Smallpox, etc. (in different languages). Public Health Bulletin for Teachers; Alberta Mothers' Book; Mouth Health; "What you should know about Cancer" (book); General Information regarding Tonsils; Health Rules for School Children; Hints on Home Nursing; Goitre; Systems of State Medicine (book).

**Public Works.**—Annual Report.

**Publicity.**—Official Highway Map of Alberta; Statistics of Progress, 1906-28; Alberta tourist literature.

**Treasury.**—Budget Speech containing extracts from Public Accounts and other financial statements; Public Accounts.

**Other Publications.**—Annual Reports are also issued by the following Departments and Branches: Railways and Telephones, Treasury (Insurance Branch), Board of Public Utilities, Labour Bureau, Lands and Mines.

## BRITISH COLUMBIA.

**Agriculture.**—*Dairying.*—(5) Varying Butter-Fat Test; (71) Butter-Making on the Farm; (2) Farm Cheese; (12) Rules Governing Cow-testing Associations in B.C.; (4) Clotted Cream; (17) The Story of Feed Unit; (20) First List of Dairy Sires; (22) Second List of Dairy Sires; (25) Third List of Dairy Sires; (24) First Studies in Mendelism; (6) Care of Milk and Cream; (26) Certified Milk and Butter-Fat Records, 1932; (1) Ropy Milk in B.C.; (13) A Farm Dairy Sterilizer; (9) Dairy Farm Sterilizing Equipment. *Diseases and Pests.*—(45) Anthracnose; (39) Apple Aphides; (4) Apple-Seab; (34) Woolly Aphid of the Apple; (38) The Lesser Appleworm; (32) Cabbage-Root Maggot; (37) The Imported Cabbage-Worm; (2) Colorado Potato-Beetle in B.C.; (35) Currant Gall-Mite; (68) Diseases and Pests of Cultivated Plants; (66) Fire-Blight; (63) Locust-Control; (61)

Making Lime-Sulphur at Home; (36) The Onion-Thrips; (41) The Oyster-Shell Scale; (31) Peach-Twig Borer; Field Crop and Garden Spray Calendar; Fruit Spray Calendar; (40) Soap Solutions for Spraying; (71) Dust Sprays; (33) Strawberry-Root Weevil. *Field Crops*.—(6) The Jerusalem Artichoke; (10) Cereal Smuts; (9) Production and Preparation of Grain; (8) Field Corn; (12) Crop Rotation; (3) Kale and Rape Crops; (86) The Potato in B.C.; (7) Root-Seed Production; (98) Roots and Root-Growing; (11) Soil Fertility; (5) Soils, Peat and Muck; (106) Weeds and their Control; (4) Noxious Weeds. *Fruits and Vegetable-Growing*.—(57) Blackberry Culture; (69) Cantaloupe-Growing in B.C. Dry Belt; (70) Celery Culture; (56) Currant and Gooseberry Culture; (43) Gardening on a City Lot; (54) Loganberry Culture; (51) Orchard Cover Crops; (53) Selection of Orchard Sites and Soils; (62) Planting Plans and Distances; (60) Pruning Fruit-Trees; (55) Raspberry Culture; (67) Rhubarb Culture; (58) Strawberry Culture; (65) Tomato-Growing in B.C.; (42) Top-working of Fruit-Trees and Propagation; (64) Varieties of Fruit recommended for Planting in B.C. *Live Stock*.—(67) Care and Feeding of Dairy Cattle; (64) Goat-raising in B.C.; (60) Swine-Raising in B.C.; (99) Care and Management of Sheep. *Poultry*.—(27) Breeding-Stock Hints; (32) Fattening Young Ducks; (15) Profitable Ducks; (25) Hints on Egg Hatching; (93) Feeding for Egg Production; (35) The Use of Feathers; (12) Management of Geese; (31) The Goose; (36) The Green Feed Deficiency in Fowls; (33) Management and Rearing of Guinea-Fowls; (39) Natural and Artificial Incubation and Brooding; (63) Poultry-House Construction; (11) Poultry-Keeping on a City Lot; (34) Care of Poultry Manure; (49) Market Poultry; (26) Practical Poultry-Raising; (19) Poultry Rations for Chicks and Layers; (80) Fur-Bearing and Market Rabbits; (28) Rabbit Recipes; (30) Sod-House Construction; (4) Management of Turkeys. *Settlers Information*.—(43) Agriculture in the Similkameen, Boundary and Kettle River Districts; (34) Agriculture in West Kootenay; (51) Central B.C.; (42) The Columbia Kootenay Valley; (44) Some Facts about B.C.; (40) The Okanagan Valley; (33) Vancouver Island and Gulf Islands. *Economic Survey Bulletins*.—(101) An Economic Study of Small-Fruit Farming in B.C.; (39) Small-Fruit Survey, 1921; (49) Tree-Fruits Survey, 1921-25. *Miscellaneous*.—(92) Bee Culture in B.C.; (52) Better Farming Suggestions; (50) Exhibition Standards of Perfection; (48) Recommendations and Suggestions to Fall Fair Associations; Farm Account Book; The Farmers' Institutes of B.C.; Farmers' Institute By-Laws; Farmers' Institute Rules and Regulations; Board of Horticulture Rules and Regulations; (47) Use of Water in Irrigation; (45) Judging Home Economics and Women's Work; List of Publications; (35) How to Pack Nursery Stock; (83) Preservation of Food; (66) Silos and Silage; Women's Institute By-Laws; Women's Institute Rules and Regulations. *Reports*.—Agricultural Statistics; Climate of B.C.; Department of Agriculture Reports.

**King's Printer.**—*British Columbia Gazette*.

**Lands.**—*Forest Branch*.—Circulars: "How to Obtain a Timber Sale" and "Forests and Forestry in British Columbia"; Grazing Regulations.

**Mines.**—Comprehensive annual reports, special bulletins, preliminary reports, etc., obtainable on application to the Department of Mines.

**Bureau of Provincial Information.**—The Manual of British Columbia; British Columbia invites you to the Land of the Golden Twilight; Alluring British Columbia; Picturesque Highways of British Columbia; Rod and Rifle in British Columbia; British Columbia, Canada; Synopsis of Hunting and Fishing Regulations. *Lands Series of Bulletins*.—(1) How to Pre-empt; (2) Some Questions and Answers regarding British Columbia; (3) British Columbia—Northern and Central Interior; (5) British Columbia—Southern Interior; (6) British Columbia Coast, Lower Mainland; (7) British Columbia Coast, Toba Inlet to Queen Charlotte Strait; (8) British Columbia Coast, Queen Charlotte Strait to Milbanke Sound; (9) British Columbia Coast, Milbanke Sound to Portland Canal; (10) Crown Lands, Purchase and Lease; (11) Cariboo Land Recording Division; (12) Kamloops Land Recording Division; (13) Similkameen Land Recording Division; (14) Vancouver Island; (15) Queen Charlotte Islands; (16) Cranbrook and Fernie Land Recording Divisions; (17) Yale Land Recording Division; (18) Osoyoos Land Recording Division; (19) Nicola Land Recording Division; (20) Nelson and Slocan Land Recording Division; (21) Revelstoke and Golden Land Recording Division; (22) Skeena Land Recording Division; (23) Stikine and Atlin Land Recording Division; (24) Hazelton Land Recording Division; (25) Peace River District; (26) Omineca District, Nation Lakes, etc.; (27) New Westminster Land Recording Division; (28) François-Ootsa Lakes; (29) Endako and Nechako Rivers; (30) Stuart and Babine Lakes; (31) Vicinity of the Pacific Great Eastern Railway (Squamish to Clinton); (32) Vicinity of the Pacific Great Eastern Railway (Clinton to 52nd Parallel); (33) Central Lillooet Division; (34) The Chilcotin Plateau; (35) Fort George Land Recording Division, Central and Western Portions; (36) South Fork of the Fraser and Canoe River Valleys; Mount Robson Park; Strathcona Park, Vancouver Island.



## CHAPTER XXX.—THE ANNUAL REGISTER, 1932-33 AND 1934.

### Section 1.—Dominion Legislation, Fourth Session, Seventeenth Parliament, Oct. 6, 1932 to May 27, 1933.

**Finance and Taxation.**—Five Appropriation Acts were passed during the session, *viz.*, cc. 1, 11, 20, 22 and 55. C. 1, 23-24 Geo. V., granted the sum of \$1,534,957.08 towards defraying the several charges and expenses of the public service for the fiscal year ending Mar. 31, 1933, as set forth in the Schedule of the said Act. C. 11 granted the sum of \$54,380,349.93 towards defraying the several charges and expenses of the public service for the fiscal year ending Mar. 31, 1933, as set forth in the Schedule accompanying that legislation. C. 20 granted the sum of \$16,220,422.36 towards defraying the several charges and expenses of the public service for the fiscal year ending Mar. 31, 1934, being one-twelfth of the several items to be voted, set forth in the Estimates for the said year. C. 22 granted the sum of \$16,220,422.36 towards defraying the several charges and expenses of the public service for the fiscal year ending Mar. 31, 1934, being one-twelfth of the several items to be voted, set forth in the Estimates. C. 55 granted the sum of \$162,202,843.59 towards defraying the several charges and expenses of the public service for the fiscal year ending Mar. 31, 1934, being five-sixths of the items to be voted, set forth in Schedule A to the said Act. Two further sums of \$9,836,970.00 and \$2,087,964.56 were also granted for the aforesaid purpose, as detailed in Schedules B and C, respectively. This Act also authorized a Government loan of \$200,000,000 for public works and general purposes.

The purport of c. 12 is to give the Governor in Council power to suspend that section of the Dominion Notes Act which provides that Dominion notes shall be redeemable in gold.

The Bank Act is amended by c. 23 postponing for a year the responsibility which is placed upon Parliament to revise the Bank Act every ten years. The amendment continued the charters of the banks to July 1, 1934. The charters under the Quebec Savings Banks Act are similarly extended by c. 28.

C. 43 authorizes the raising by way of loans such sums of money as may be required, not to exceed \$750,000,000 for paying loans or obligations of Canada, and for purchasing and withdrawing from circulation unmatured securities of Canada, and for public works and general purposes.

**Income Tax.**—The purpose of c. 14 is to provide that Government servants resident outside of Canada be made liable for income tax. Also that when the assets or shares of a company, having undistributed income on hand at the end of 1929, are sold directly or through an intermediary to a company which issues shares, bonds, notes, or other like documents as fully paid up by capitalizing the said undistributed income, then on the redemption of such documents the company redeeming shall pay a tax of 4 p. c. on the amount of such document redeemed. That the time of filing information returns be advanced from Mar. 31, to the last day of February in each year. That the provisions of the said Act with respect to personal corporations be amended to make them more certain in their application. Section 10 of the amendments makes the Act retroactive in several of its features, and particularly the right of the Crown to collect taxes remaining unpaid through mistake, which is made retroactive to the date the Act came into force in 1917.



The special income tax of 10 p.c. levied on the salaries of the judiciary, of the commissioned officers of the Military, Naval and Air Forces, and of the R.C.M.P., is continued in force by c. 15 until Mar. 31, 1934. A further provision prescribes that any person liable to pay the said special tax may elect to be subject to the Salary Deduction Act in lieu thereof.

Income tax exemption is reduced by c. 41 to \$2,000 for married persons, widows or widowers with dependent child, and persons maintaining domestic establishments and supporting persons related by blood, marriage, or adoption. For all other persons the exemption provided is \$1,000. The exemption for a dependent child or grandchild is \$400 and for a dependent parent, grandparent, brother or sister is the actual amount expended up to \$400. A new schedule of rates is provided. Where a husband and wife each have a separate income in excess of \$1,000, they are each allowed an exemption of \$1,000. It abolishes the exemption of \$2,000 afforded corporations and joint stock companies and raises the tax to 12½ p.c. Such companies filing consolidated returns are made subject to a tax of 13½ p.c. on consolidated income. Corporations are exempted from additional tax in respect of incomes in excess of \$5,000. Additional tax of 5 p.c. is imposed on non-residents of Canada in respect of dividends received from Canadian debtors, and interest from Canadian debtors if payable solely in Canadian funds except from bonds of, or guaranteed by, the Dominion of Canada. Additional tax of 5 p.c. is imposed on residents of Canada, except municipalities or municipal or public bodies performing governmental functions, in respect of interest and dividends paid by Canadian debtors to such persons at a premium over par of Canadian funds. Provision is made that where the Minister decides that individual profits of a corporation are in excess of reasonable requirements he may notify the corporation of the amount considered excessive and charge shareholders on same. The property of private investment holding companies is taken out of the operations of s. 19 (1) of the Act as enacted by s. 4 of c. 24, 1930. Persons making payments to non-residents on account of rents or royalties shall deduct from every such payment in excess of an amount to be named by the Minister, 12½ p.c. In computing the amount of profits to be assessed, no deduction is allowed for carrying charges of property, the income from which is exempt, except to the extent that the said charges exceed the exempt income. When any salary, bonus, commission, or director's fee is excessive in the opinion of the Minister, it may be disallowed as an expense. Debtors paying interest on fully registered bonds or debentures are to make a return of interest so paid. An ownership certificate is to be completed before a bearer coupon or warrant is negotiated by or on behalf of a resident of Canada. Several penalty clauses were added to the Act.

*National Revenue.*—C. 6 is an Act to amend the Customs Tariff, Schedule A, implementing the Canada-United Kingdom Trade Agreement.

The power of the Governor in Council to authorize the Minister to fix the value for duty on goods imported into Canada, under such conditions as injuriously to affect the interests of producers or manufacturers, is withdrawn by c. 7 so far as goods coming under the British preference or any lower tariff is concerned.

C. 8 reduces the excise duty on spirits, when made from unmalted grain or sugar, from \$9 to \$7 per gallon; when made from malted grain, from \$9.02 to \$7 per gallon; when made from molasses syrup, from \$9.03 to \$7 per gallon. The period for which abatement is allowed, for shrinkage by evaporation while maturing, is extended to fifteen years. Excise duty on cigarettes made from raw leaf tobacco is reduced from \$6 to \$4 per thousand.

C. 37 gives the Governor in Council authority to determine, from time to time, in computing the value for duty on imports, the rate of exchange of currency of any country whose currency is depreciated. Where the amount paid for imported goods from a country with a depreciated currency is less than the value computed at the determined rate of exchange, a duty is added amounting to the difference. Where goods are imported when importer and exporter have joint ownership the transaction is to be regarded as a sale and the price fixed is to be the value of the goods in the currency of the export country converted into Canadian currency at the rate determined as above. Schedules A and C of the Act are also amended.

C. 38, a Customs Act amendment, defines "value for duty" and provides for the granting of special permission for lightening vessels on statutory holidays other than Sundays, etc., vests officers with boarding and searching powers, and authority to seize vessels engaged in smuggling or smuggled goods. Penalties in such cases are increased.

C. 40 amends the Excise Act as follows: Jurisdiction for trial of offender is transferred from county court judge to police or stipendiary magistrate or two justices of the peace. Penalties recovered under Act may be paid to the Commissioner, R.C.M.P., Ottawa, or any officer commanding a division of the R.C.M.P. A Schedule is substituted for present provision to indicate the amount of the bond necessary for a licence to carry on business of distiller. Excise duty is imposed on spirits as follows: on those of proof strength, \$7 per gallon, and so in proportion for greater or less strength and quantity. For spirits in medicine \$2.50 per gallon of proof strength. When spirits of not less than 50 p.c. over proof are sold to a university or scientific and research laboratory or hospital, a drawback of 99 p.c. may be granted under regulations prescribed by the Minister. For spirits from juices of native fruits, \$1 per gallon of proof strength. For perfume, \$1.50 per gallon of proof strength. Duty to be paid on spirits used by druggists, \$2.50 per gallon of proof strength. Spirits re-warehoused to be subject to the same abatement as if originally warehoused, but full warehousing not to exceed 15 years. The Governor in Council is given the right to make regulations for vatting, etc., of spirits and to provide an abatement of 1 p.c. of the quantity of spirits taken for such purpose. The Governor in Council may make regulations for the bottling of spirits in bond. Least quantity of spirits removable from distillery is reduced to five gallons. A penalty clause is provided for distilling without a licence, the minimum penalty being a fine or imprisonment, or both fine and imprisonment.

Under c. 50 notes of Canadian banks circulating in British possessions other than Canada are exempt from the tax imposed under s. 3 of the Special War Revenue Act to the amount required to pay tax levied by such possession. A purely mutual insurance company deriving not less than fifty p.c. of its net income from the insurance of farm property is exempt from the provisions of the Act. Cheques, postal notes and money orders issued to a producer for milk or cream, or eggs or poultry, to co-operative wool-growers for wool, and by municipalities for employment relief, are exempt from the stamp tax. Provides an excise tax on cheques, bills of exchange or promissory notes drawn out of Canada; 3 cents up to \$100 and 6 cents above that amount. The stamp tax on receipts for money paid by bank against a deposit to the recipient's credit is 3 cents up to \$100, and 6 cents over \$100. Stocks, bonds, etc., or participating interest therein capable of being sold are made liable to the tax on sale of stocks, etc., set forth in the Act and certain changes are made in the exemptions from this tax. The tax on express company money orders, Post Office

money orders, and travellers cheques is to apply on amounts under \$5. The tax on matches lowered on small packages. A tax of 2 cents is levied on each one hundred cigarette papers or fraction thereof. A tax of 4 cents is levied on each one hundred cigarette paper tubes or fraction thereof. Cigarette papers and cigarette paper tubes are to be imported and sold in packages. Cigarette papers and tubes are not to be taxed when exported. Ale, beer, porter, and stout exported in bond not taxable when landing certificate produced. Tax on sugar, etc., remitted when imported or bought in bond for further manufacture, but payable when later sold. A tax is imposed on the sugar content of goods imported. Price for sales tax not to include sales tax, but shall include other excise duties when goods sold in bond, and also taxes imposed by Part X and Part XII of the Act. Sales tax on imported goods to be on duty-paid value. Wholesaler who sells for a price less than the value computed under the Act is liable for difference. Current market value of raw furs may be determined by the Minister. Drawback of 90 p.c. of taxes imposed by Part XI of Act upon tires and rubber, etc., exported. Amendments are also made in regard to records and penalties for tampering with same, refunds, etc., and to the Schedules.

The annual salary of the Chairman of the Tariff Board is fixed at \$15,000, and those of the other two members at \$10,000, by c. 51. Pensions are provided as follows: for ten years service, annuity of one-fourth of annual salary received during such period; for less than ten and more than five years service annuity of one-fifth of annual salary received during such period. However, if member serves full ten years and is 64 years of age he may be granted annuity of one-half of annual salary.

**Agriculture.**—By the Hay and Straw Inspection Act (c. 26), the Minister of Agriculture is given power to make regulations respecting the quality of hay and straw, and to appoint inspectors and empower them to issue certificates of quality. Ss. 156-165 of Inspection and Sale Act are repealed.

**Civil Service.**—The Salary Deduction Act, 1933 (c. 19), extends salary deductions of 10 p.c. to Mar. 31, 1934. Deduction is also to apply to indemnities of members of Senate and House of Commons for the session which commenced Oct. 6, 1932. Income as reduced by said reduction is to be subject to income tax.

**External Affairs.**—By c. 39—The Extra-Territorial Act, 1933—Acts of the Dominion Parliament in force previous to the passing of the Statute of Westminster and purporting to have extra-territorial operation, are to be construed as if the Dominion Parliament had then had power to pass laws having such operation.

**Immigration and Colonization.**—C. 49 amends the Soldier Settlement Act; all interest charges for the year preceding standard date in 1932 are remitted, or applied on principal where already paid. This, however, does not, except under certain conditions, apply to payments in respect of contracts dated Aug. 20, 1924, made under agreement between the United Kingdom and the Dominion. Any payments made between Mar. 31, 1933, and Mar. 31, 1936, for arrears or instalments due, or due within one year thereafter, are to be accepted for double the amount so paid. This credit is not accorded in respect to money, the proceeds of alienation, fire insurance, or payment under agreement for sale. After Mar. 31, 1933, the Director is to release title to equipment under certain conditions.

**Indian Affairs.**—C. 42 is an amendment to the Indian Act whereby members of the R.C.M.P. are to be truant officers on reserves. No Indian, or band, or irregular band of Indians is to sell cattle or other animals, or grains, root crops, or other produce from any reserve without the consent of the Indian Agent. The



Superintendent General is to determine where roads are to be on a reserve. Operations of hawkers, etc., are to be regulated by chiefs in council subject to confirmation by Governor in Council. Provision is made for Indians to be enfranchised without application on their part. Anyone found on a reserve who is unable to prove a legitimate reason for presence is liable to fine and imprisonment.

**Insurance.**—By c. 32, the Canadian and British Insurance Companies Act is amended to extend investments to include bonds or debentures secured by annual payment of Dominion Government.

**Interior.**—The Migratory Birds Act is amended by c. 16, providing for the deletion of provision for the printing of regulations in the prefix of the Dominion Statutes. Members of the R.C.M.P. are to be game officers.

**Justice.**—The Criminal Code is amended by c. 25; carrying of firearms without a permit is made an indictable offence and punishment increased to five years imprisonment. All other punishments in regard to firearms and dangerous weapons are made more severe.

The Penitentiary Act is amended by c. 27 whereby the Governor in Council is given power to appoint a Superintendent and three Inspectors of penitentiaries, wardens and other executive officers. The Superintendent is empowered on recommendation of a warden to appoint subordinate officers to serve in penitentiaries. All other employees of the Penitentiary Branch to continue under the Civil Service Commission. Changes in regard to gratuities to employees. Period of confinement of convict pending an appeal by the Attorney General or Council for the Crown to count as time served.

The Criminal Code is amended by c. 53 as follows: Definition of prize fight changed to exclude contests between amateurs with not less than five-ounce gloves, and contests held under authority of a Provincial Athletic Board. Signing and using false affidavits is made an indictable offence. Irrebuttable presumption created of corruption of child in own home when court is of opinion that conditions are such that child might be in danger of becoming immoral. Throwing of stench bombs, etc., in a place of usual resort is made an indictable offence, punishable by imprisonment of not less than two and not more than five years. Changes are made in procedure of appeals in Ontario; in provisions for summary trial with consent; Quebec and British Columbia are added to the provinces in which a grand jury indictment is not necessary. A change is also made in the provisions respecting when the time of sentence is to start for persons on bail or confined awaiting appeal; unconvicted persons are removed from the operation of said provisions.

The Exchequer Court Act is amended by c. 13 as regards: Writs of Habeas Corpus ad Subjiciendum, etc., in relation to any officer or man of the Canadian Naval, Military or Air Force serving outside Canada, which are to be exclusively heard by the Exchequer Court. Any such writ is to be directed to the Minister of National Defence, who shall transmit terms of same to the appropriate authority who shall comply therewith.

By c. 29, amending the R.C.M.P. Act, all money earned by a member of the Force over and above his salary is to be paid to the Minister, except when the Minister otherwise directs. All N.C.O.'s and men of the Force are subject to reduction in rank. The Governor in Council may determine the amount of allowances for purposes of pension.



**Labour.**—The Relief Act, 1933 (c. 18), enacted for a period of one year, gives power to the Governor in Council to make agreements with provinces respecting relief measures therein; to take all means deemed advisable to maintain peace, order and good government; to protect the financial position of the Dominion or any province; to provide special relief works in National Parks; to assist in sale and distribution of products. Moneys for direct relief not to exceed \$20,000,000.

**Marine.**—C. 52 provides that the Minister may delegate duties as pilotage authority. Governor in Council to appoint inspectors of ships' tackle, who are also to supervise loading and unloading of ships. Governor in Council may make regulations for protection against accident in loading and unloading ships. Inspectors may order loading or unloading of ships to cease if employee is exposed to undue risk. Weight of packages of 2,240 pounds or over, consigned to be loaded on any ship, is to be marked. Governor in Council may make regulations regarding manner in which cargo is carried. No goods are to be carried from one port to another in Canada, either directly or by way of a foreign port, or for any part of the transportation, in other than British ships.

The Radio Broadcasting Act is amended by c. 35 which provides that appointments and salaries of technical and other officers are to be made by the Radio Commission, and those of other employees pursuant to the Civil Service Act. The acquisition and construction of stations are to be approved by Governor in Council instead of by Parliament. Moneys received by the Commission as well as moneys appropriated by Parliament may be expended by the Commission.

**Parliamentary Representation.**—Under the Representation Act, 1933 (c. 54 of the Statutes), The House of Commons is to consist of 245 members as follows: Ontario 82, Quebec 65, Nova Scotia 12, New Brunswick 10, Manitoba 17, British Columbia 16, Prince Edward Island 4, Saskatchewan 21, Alberta 17, Yukon Territory 1. Schedule A describes the new electoral districts. This Act takes effect upon the dissolution of the present Parliament.

**Pensions and National Health.**—The Pensions Act was amended by c. 45: The Board of Pension Commissioners and Pension Tribunals are abolished and the Canadian Pension Commission substituted. The commission is to consist of from 8 to 12 members at the discretion of Governor in Council. The Pension Appeal Court is continued. A Reviewing Officer is appointed with duty of deciding whether an appeal should be made on behalf of the Crown. Details of administration of the Pensions Act are amended in several respects.

**Post Office.**—The Post Office Act was amended by c. 46, subjecting newspapers and periodicals, having more than 50 p.c. of space devoted to advertisements, to pay postage at the rate of 4 cents per pound or any fraction thereof.

**Railways.**—C. 33 of the Statutes does away with the Board of Directors of the C.N.R., and substitutes three trustees. It also sets up machinery for co-operation between the C.N.R. and the C.P.R. It specifically stipulates that nothing in the Act shall be deemed to authorize the amalgamation of the two great railways.

C. 34—the C.N.R. Financing Act, 1933—gives that company power to issue notes to cover expenditures made during 1933, where net income insufficient. Power is also vested in the Minister of Finance to make loans to the company out of the Consolidated Revenue of Canada.

C. 47 amends the Railway Act, giving to a company power to abandon any line of railway with approval of the Board of Railway Commissioners and forbids any company to abandon any line of railway without such approval.

**Trade.**—By cc. 2, 3, 4, and 5 the several Trade Agreements made between Canada and the United Kingdom, South Africa, the Irish Free State, and Southern Rhodesia at the Ottawa Imperial Economic Conference were respectively approved by the Dominion Parliament.

Cc. 9 and 24 are amendments to the Canada Grain Act. By c. 9, any change in tariff for the handling, etc., of grains in elevators during crop year is prohibited except by order of the Grain Commissioners. C. 24 gives the Grain Board power to make regulations requiring the registration and cancellation of Eastern warehouse receipts and transfer receipts; also to make regulations governing the discharge of grain from a licensed public or semi-public elevator at a sea port. Eastern elevators are brought under the operation of s. 126 of the Grain Act. When Western grain is in an Eastern elevator, transfer receipts shall be issued but these are not negotiable. Subject to the regulations of the Board, these transfer receipts are exchangeable for Eastern warehouse receipts upon surrender of the bill of lading. Eastern warehouse receipts are brought under s. 127 of the Grain Act. Eastern warehouse receipts and transfer receipts are brought under the operation of s. 128. Eastern elevators are brought under the operation of s. 129. An amendment is made to s. 135 of the Act, making it subject to the other parts of the Act.

C. 30 approves the Convention between Canada and France concerning the rights of nationals and commercial and shipping matters, set out in the Schedule. C. 31 approves the trade agreement between Canada and France set out in the Schedule thereto.

C. 36 provides a method whereby the creditors of a company may be brought into court and permitted by amicable agreement between themselves to arrange for a settlement of the debts of the company, allowing the business to be continued for the benefit of all concerned.

The Governor in Council is empowered by c. 44 to extend duration of Trade Agreement between Canada and New Zealand dated April 23, 1932.

**Miscellaneous.**—C. 10 gives power to the Montreal Harbour Commissioners to pass a by-law to prohibit entry of vessel into the harbour without permission, and to levy a tax for operating within the harbour.

Under c. 17 the Agreement of Mar. 30, 1920, with the city of Ottawa is extended for one year from July 1, 1932.

The Visiting Forces Act (c. 21) makes provision with respect to discipline, command, etc.

C. 48 provides that senators may be contractors for the loan of money to the Government after public competition.

## Section 2.—Dominion Legislation, Fifth Session, Seventeenth Parliament, Jan. 25 to July 3, 1934.\*

**Finance and Taxation.**—Five Appropriation Acts were passed during the session, *viz.*, cc. 1, 2, 16, 23 and 62. C. 1 grants the sum of \$30,073,471.87 towards defraying the expenses of the public service for the fiscal year ending Mar. 31, 1935, being one-sixth of the amount of the items to be voted, set forth in the Estimates for the said year. C. 2 grants the sum of \$52,661,304.36 towards defraying the expenses of the public service for the fiscal year ending Mar. 31, 1934, set forth

\*C. 44, the Canada Shipping Act, not having been proclaimed at the time of going to press, is not dealt with in this review.

in the Schedule thereto. C. 16 grants the sum of \$15,036,735.93 towards defraying the expenses of the public service for the fiscal year ending Mar. 31, 1935, being one-twelfth of the amount of the items set forth in the Estimates for the said year. Two further sums of \$2,237,789.69 and \$888,000.00 are granted for the aforesaid purpose, said sums being one-fourth of the amount of the items set forth in Schedule A, and one-fourth of the amount of the items set forth in Schedule B, respectively. C. 23 grants the sum of \$128,617,254.36 towards defraying the expenses of the public service for the fiscal year ending Mar. 31, 1935, being three-fourths of the amount of the items set forth in Schedule A thereto, excepting thereout one-half of the amount of the items set forth in Schedule B thereto. Two further sums of \$4,475,579.37 and \$2,664,000.00 are also granted for the aforesaid purpose, said sums being one-half of the amount of the items set forth in Schedule B, and three-fourths of the amount of the items set forth in Schedule C, respectively. This Act also authorizes a Government loan up to \$200,000,000 for public works and general purposes. C. 62 grants the sum of \$8,274,739.72 towards defraying the expenses of the public service for the fiscal year ending Mar. 31, 1935, set forth in the Schedule thereto.

C. 34 is an amendment to the Dominion Notes Act, raising the value of Dominion notes which may be issued on a 25 p.c. gold coverage from \$50,000,000 to \$120,000,000. Notes in excess of the latter figure are to be fully secured by gold. Silver purchased under the London Agreement of July, 1933, may be held as additional security. Provision is also made for repealing the Dominion Notes Act when the new Bank of Canada starts functioning, after which time all notes will be issued, except as provided by the Bank Act, under the authority of the Bank of Canada Act.

C. 30 makes provision for the repeal by proclamation of c. 4 of the Statutes of 1915, which provided for the issuance of \$26,000,000 of Dominion notes, and c. 35 similarly makes provision for the repeal of the Finance Act, which provides for advances of Dominion notes being made to the chartered banks on the strength of such approved securities as may be deposited with the Minister of Finance. These Acts will be superseded by the Bank of Canada Act, (See p. 963.)

*Income Tax.*—C. 19 continues the special income tax of 10 p.c. on the salaries of members of the judiciary, and the commissioned officers of the military, naval and air forces and R.C.M.P. for the fiscal year ending Mar. 31, 1935. C. 55 amends the Income War Tax Act by adding rents, royalties, or other periodical receipts to the list of incomes taxable, particularized under clause 3. A company having assets and doing business solely outside of Canada is exempt from income tax only after making a return and paying a fee of \$100. Clergymen under certain conditions are given the same exemption as married men, *viz.*, \$2,000. Interest paid in respect of succession duties or inheritance taxes is exempted. A tax of 5 p.c. is imposed on non-resident parent companies in respect of interest paid by a subsidiary Canadian company, except when paid in currency other than Canadian by agreement dated prior to April, 1933. Income from estate or trust to pay 5 p.c. tax. Exemption of tax on dividends to non-resident parent company only applicable where shares owned by parent company have full voting rights, and this exemption to apply irrespective of amount of income derived by Canadian company from interest and dividends, provided same are paid by subsidiary company. Income accumulating in trust for unascertained persons is taxable as if such income were the income of a person other than a corporation, but exemptions provided under paragraphs c, d, e and i of s-s. 1 of s. 5 of the Act are not applicable. Income of deceased person payable periodically is deemed to have accrued by equal daily increment and that portion accrued to the date of death is to be taxed. Dividends received by an



estate or trust and capitalized, to be taxed. Money spent on maintenance of an estate in accordance with terms of a will or trust is to be taxed if in excess of amount prescribed by the Minister. Where a corporation is redeeming shares at a premium the tax to be paid on such premium. All distributions of property made on the winding up of an incorporated company are deemed to be dividends to the extent that the company has undistributed income on hand, except in the case of income received from British and foreign securities and interest-bearing securities of Canadian debtors by private investment holding companies, in which case the extent to which dividends are made up of income received from Canadian companies is set forth. When a Canadian company advances money to a non-resident company for a period of one year without interest, the Minister may determine the amount of interest deemed to have been received as income. The Governor in Council is given power to enter into reciprocal agreements with other countries to exempt their respective nationals from income tax. When a person transfers property to a minor under eighteen years of age he shall nevertheless pay tax on income derived from such property during the minority of such minor, and also afterwards unless the Minister is satisfied that the transfer was not made to evade tax. Some changes are made in the penalty clauses.

*National Revenue.*—C. 32 amends the Customs Tariff. "Proof" and "proof spirits" are re-defined. The *ad valorem* rate of duty on tea purchased in bond in the United Kingdom is not to include the custom duty payable on tea for consumption in the United Kingdom. Schedule A is extensively amended. C. 48 amends the Customs Act. Definition of "fair market" repealed. The Governor in Council may order that excise duties and taxes be disregarded. Penalty for entering a railway car carrying bonded goods is extended to breaking or abetting, or aiding in the breaking of locks on such cars. Signalling from ship or coast in aid of smuggling is a criminal offence punishable with fine and imprisonment. The onus of proof of innocent interest lies on the person making the signals. C. 49 amends the Customs Tariff by enacting that the Governor in Council may order that excise duties be disregarded in estimating the market value for the purpose of special duty when goods are entitled to free entry under the general tariff.

The Special War Revenue Act is amended by c. 42. Postal notes under one dollar are made subject to a stamp tax of 1 cent, and over one dollar to a 3 cent tax. The excise tax on cigarette paper tubes is reduced to 3 cents a hundred. The wholesale or retail dealer is to affix the stamp required if package of cigarette papers or cigarette paper tubes remain unstamped. The excise tax on ale, beer, porter, and stout is brought under the section providing that goods exported under regulations prescribed by the Minister are not to be subject to tax. The tax on sugar content of goods imported is reduced to 1 cent per pound upon sugar and sugar substitutes, and to  $\frac{1}{2}$  cent per lb. upon glucose or grape-sugar. The term "manufactured and produced in Canada" is to apply to any articles prepared for sale in Canada and the tax is to be levied upon the price the articles sold for in Canada. The tax on champagne and all other sparkling wines is reduced to seventy-five cents per gallon. The Minister is made sole judge as to whether goods are "partly manufactured goods" within meaning of s. 85. The current market value of furs is to be determined under regulations made by the Minister for the purpose of s. 86 of the Act. The excise tax of 3 p.c. on duty-paid value under s. 88 is reduced to  $1\frac{1}{2}$  p.c. on goods entering Canada under the British Preferential Tariff or under trade arrangements between Canada and other British countries. The drawback provided for by s. 94 of the Act is to include materials (not fuel or plant equipment) consumed in the



manufacture or production of any goods exported. The penalty for refusing to pay tax imposed by Parts IV to XIII is made additional to any other penalty prescribed by the Act. The penalty for contravening any requirements of Parts IV to XIII or any regulations of the Minister is limited to contraventions for which no other penalty is provided. The authority of an "officer" to make inquiries extends to the whole Act. A person collecting money on behalf of the Crown, who collects in excess of the required sums, is to pay that excess to the Crown and is liable to a penalty of \$500. Prosecutions under the Act are to be commenced within three years from the time the cause of suit arose. A new Part (XV) is added to the Act, imposing a tax on gold producers. (See p. 395.) The remaining amendments are changes in the Schedules to the Special War Revenue Act.

C. 52 is an Act to amend and consolidate the Excise Act. The amendments make four important changes. First, the existing duty on malt is increased. This is done in conjunction with the repeal of the gallonage tax on beer imposed by the Special War Revenue Act, the effect being to lower the tax on beer. Second, the cost of home-brewed beer is similarly lowered by making the tax imposed on malt syrup a duty of excise while at the same time repealing the tax imposed on malt syrup by the Special War Revenue Act. Third, a Schedule of excise duties is appended for purposes of reference. Fourth, whenever any vehicle is seized or forfeited, anyone claiming an interest in same may within thirty days after seizure apply to any Judge of a Superior Court or the Exchequer Court for an order declaring his interest. This expedites the procedure and reduces the expense of obtaining redress.

**Agriculture.**—The Natural Products Marketing Act, c. 57 of the Statutes, sets up a Dominion Marketing Board, the members of which are to be appointed by, and to hold office during the pleasure of, the Governor in Council. The Board is given power over the marketing of those natural products which may be regulated under the Act, and also the power to prohibit marketing. It may exempt a person from its order, conduct a pool to equalize returns, give compensation for loss, assist by means of grants, provide for licence, require information, and co-operate with a provincial board. Upon the petition of a representative number of persons engaged in the production of a commodity, a local board may be created to regulate the said commodity under the supervision of the Board. The scheme will only be adopted if the principal market for the product is outside the province of production or if some part of the product may be exported. The procedure of adopting or revoking schemes under the Act is laid down. The Minister may authorize investigations into cost of production, wages, etc., in relation to production, etc., of natural products. Persons receiving a spread, detrimental to the interests of the public, or which is excessive, are liable to a fine not exceeding \$5,000 or two years imprisonment, or if a corporation to a fine not exceeding \$10,000. Whenever an investigating committee is satisfied that an offence has been committed, it is to remit evidence to Attorney General of the province within which the offence was committed. If such Attorney General does not take action within three months, the Attorney General of Canada may do so. The last section of the Act provides that if it is found that any provision of the Act is *ultra vires* that none of the other provisions of the Act are therefore to be inoperative or *ultra vires*.

C. 12 amends the Dairy Industry Act. The definitions are extended to include "dairy produce" and "dairy product" and the definition of "fats" is amended to include mineral fats as well as animal and vegetable fats. The Governor in Council is given the right to make regulations for the prescribing of standards for dairy products. A new subsection is added to s. 6, which makes it illegal to manu-

facture, or offer, sell or have, etc., any dairy product contrary to the provisions of Part I of the Act and regulations made thereunder. The clause prohibiting the placing of a foreign substance in cheese is extended to include all dairy products. The whole of Part II of the Act, dealing with the grading of dairy produce, is repealed and a new Part II substituted therefor.

C. 13 amends the Destructive Insect and Pest Act to make it clear that a province is free to make laws *re* insects and pests so long as such regulations are not repugnant to Dominion legislation on this subject.

C. 18 repeals the Fruit Act and substitutes in its stead a new Act entitled the Fruit and Honey Act. The most important change takes the definitions of grades, markings, etc., out of the Act, and gives to the Minister the right to make regulations thereon. There are thirteen sections defining offences in regard to grading, packing, etc. Varying penalties are imposed for infractions of the Act. Part III of the Act provides for the establishment of classes and grades, for boxing for both export and interprovincial trade, by regulations made by the Minister.

C. 20 amends the Live Stock and Live Stock Products Act. The "exporter" is defined as the owner of live stock or live-stock products shipped out of Canada, and the "exporting agent" as any person who, on behalf of the owner, ships live stock or live-stock products out of Canada. The Minister may, by notice in writing, forbid the shipping of cattle to Great Britain by an exporter or exporting agent unless a licence has been obtained. The necessity of being so licensed only arises upon notification by the Minister prohibiting shipping without a licence. The Minister is given the right to make regulations prescribing the manner in which operators of "public commercial vehicles" are to guarantee the proper return of proceeds to the owners of live stock or live-stock products. Regulations may also be so made regarding the manner in which a purchaser shall record receipts, etc., made at assembling points and abattoirs, and such records shall be made available to the Minister. If any live-stock exchange fails to comply with a requirement of the Minister in regard to the record of such receipts, etc., for a period of thirty days, the Minister may order the exchange to discontinue operations, in which event the business of the exchange will carry on under the direct authority of the Minister. No moneys are to be paid out of the "shippers' trust account" except in accordance with regulations approved by the Minister. The bank is specifically stated to have no responsibility in regard to the "shippers' trust account".

C. 26 amends the Canada Grain Act so as to exclude Garnet wheat from Grade No. 2 Manitoba Northern, and provides that this grade will consist of "Marquis or equal to Marquis". Garnet is given a separate grading as "No. 1. C.W. Garnet", and "No. 2. C.W. Garnet". Transfer receipts are to be issued by an Eastern elevator at an ocean terminal point for local delivery or export, but such receipts are not to be negotiable. In the Eastern Inspection Division an elevator may, if a transfer certificate has been issued and registered according to any regulations which may be current, discharge grain for shipment on surrender of receipt or bill of lading.

C. 46 is cited as the Canadian Farm Loan Act Amendment Act. The Farm Loan Board is given authority to pay local taxes on real estate; to accept additional security for loans; to make composition, extension of time, or scheme of arrangement with borrower; to make advances to borrowers for seed, fodder, fertilizer or harvesting expenses. The certificate of the Commissioner printed on every farm loan bond is changed to read that the Board holds "mortgages or charges on farm lands, and personalty". It previously read "mortgages on farm lands". The

maximum loan to be made under the Act is reduced from \$10,000 to \$7,500. Mortgages are subject to the law of the province in which the land is situated. If under mortgage sales proceedings, an amount insufficient to discharge the secured debt is realized, the stock in the Board held by the borrower is cancelled and the amount paid thereon forfeited to the Board. The amount of bonds the Minister may purchase is increased from fifteen million to forty million dollars. Such bonds are to be repurchased only at the request of the Minister. The Governor in Council may authorize the guarantee of the principal and interest of Farm Loan Boards up to thirty million dollars. Several new provisions in regard to farm loans are added by Part II, which deals with supplementary advances by the Board. A farmer who has already given a first mortgage to the Board is to make a further loan by giving to the Board a second mortgage. This second loan is to be made for a period of not more than six years, repayable on such terms as the Board may determine. The security is to be a mortgage on the farm lands, and a charge on live stock and other personal property. The aggregate of loans made to any one borrower under this Amendment Act and the Canadian Farm Loan Act is not to exceed two-thirds of the appraised value of the land and buildings, and is not to exceed at any time \$7,500, and the amount advanced under this Part is not to exceed half the amount secured by the first mortgage. The purpose of the second loan is to enable the farmer to pay existing debts, to buy necessary equipment, to make permanent improvements, and for such other purposes as the Board approves. A mortgagee under the Act is defined and stipulations regarding: rate of interest; procedure in case of composition, etc., under the Farmers' Creditors Arrangement Act, 1934; extension of time for repayment, etc., are made. Money for loans may be provided out of the Consolidated Revenue Fund.

C. 53 is the Farmers' Creditors Arrangement Act, 1934. The purpose of this Act is to provide a means whereby arrangements may be effected of debts of farmers who are unable to pay, and thus retain the farmers on the land as efficient producers. Under the Act a farmer unable to meet his liabilities may make a proposal for a scheme of arrangement. This proposal is filed with the Official Receiver appointed under the Act, who will convene a meeting of creditors. When a proposal is not approved by the creditors it may be referred to the Board of Review, appointed under the Act, which Board shall formulate a proposal. If this proposal is approved, it shall be binding on all, but if it is not approved, the Board may nevertheless confirm it, when it shall be binding. The Board may refuse to formulate a proposal where it considers no fair proposal can be formulated. When a proposal has been confirmed by the Board, Part I of the Bankruptcy Act shall thereafter apply to the farmer and a failure to carry out the proposal will constitute an act of bankruptcy on his part. S. 17 of the Act provides that when the interest rate in any mortgage exceeds 7 p.c., the person liable to pay the mortgage may pay the principal and interest owing to date together with three months further interest, and thereafter no interest will be recoverable at any rate in excess of 5 p.c.

**Banks and Banking.**—C. 24 is the Bank Act. It renews the charters of the ten chartered banks for ten years to July 1, 1944. La Banque Provinciale du Canada and Banque Canadienne Nationale may do business under the respective names: "The Provincial Bank of Canada" and "National Canadian Bank". The Act does not apply to the new Bank of Canada, except as it is specially mentioned in the Act. The chartered banks are required to maintain with the Bank of Canada at least 5 p.c. of their deposit liabilities within Canada. This reserve is to be in Bank of Canada notes and deposits in the Bank of Canada. After the commence-



ment of business by the Bank of Canada, the maximum amount of notes of a chartered bank shall not exceed the amount of its paid-up capital. This maximum amount will be reduced annually by 5 p.c. for a period of five years commencing Jan. 1, 1936, and by 10 p.c. for a period of five years commencing Jan. 1, 1941. Chartered banks are not allowed to charge a higher rate of interest or discount than 7 p.c.; penalties are to be enforced for violation of the Act in this respect. As the note-issuing privilege of a chartered bank is withdrawn, the liability of a shareholder in the bank shall not exceed that proportion of the par value of the shares held by him which the amount of notes which the bank is authorized to have in circulation in Canada bears to the paid-up capital of the bank. Slight changes are made in the monthly statement of assets and liabilities.

C. 43, the Bank of Canada Act, is an Act to incorporate the Bank of Canada, and provides for the establishment in Canada of a central bank. The gist of this legislation is given on p. 963.

C. 39 renews the charters of the Montreal City and District Savings Bank and of La Caisse d'Economie de Notre-Dame de Québec and enacts that they shall remain in force until July 1, 1944. It also amends the Quebec Savings Bank Act as follows: Publication of notice may be by publication each week in a weekly newspaper, or once a week in a newspaper published more frequently. The limitation on the amount which may be deposited by any persons not by the laws of the province authorized to make such a deposit is repealed. A garnishee order only attaches money to the credit of the debtor at the branch where it is served. The bank shall always hold at least 20 p.c. of the moneys deposited with it on deposit in chartered banks in Canada, or in the Bank of Canada. The Bank of Canada is added to the chartered banks as a place where deposits may be made by the bank. The Inspector General of Banks shall make an examination of the business of the bank at least once a year. Expenses of such examination to be paid out of the Consolidated Revenue Fund if appropriation therefor has been made and said Fund shall be recouped by assessment upon the banks. When a deposit is subject to a trust of which the bank has notice, the receipt or cheque of the person, or if two or more persons the receipt or cheque of all, or those of them entitled to receive under the document creating the trust, shall be a sufficient discharge of all concerned. Except only when lawfully claimed by other persons, the receipt or cheque of a person in whose name a deposit stands, or if it stands in the name of two persons the receipt or cheque of one, or if it stands in the name of more than two the receipt or cheque of the majority, shall be a sufficient discharge of all concerned. An annual return of shareholders is to be made within twenty days after the close of each calendar year. An annual return of unpaid dividends is to be as at the end of each calendar year. The person appointed by the Minister under s. 48 of this Act shall be deemed to be an officer of the bank within the meaning of s. 67. Bank of Canada notes are substituted for Dominion notes in s. 69. Item 2 of assets in the Schedule is amended to read "Cash in hand and on deposit in chartered banks, or in the Bank of Canada".

**Civil Service.**—C. 25 is the Translation Bureau Act. It establishes a Bureau for Translations under the Secretary of State, the function of which is to collaborate with all Government Departments and agencies in making translations from one language into another. All employees of the public service chiefly engaged as translators may be transferred to the Bureau. The Bureau is to be under the supervision of a Superintendent appointed under the Civil Service Act.

C. 22 is The Salary Deduction Act, 1934. It provides for the deduction of 10 p.c. from the compensation of members of the public service, except the Governor



General, the Lieutenant-Governors of the provinces, the members of the judiciary and of the Naval, Military and Air forces, and the R.C.M.P. Members of the Senate and the House of Commons are included as well as members of the commissions, etc., created by the Government, other than the C.N.R. A proviso, however, is added which provides that the Act shall not operate to reduce the compensation of any member of the public service below \$1,000 per annum, and further that such deductions shall not apply to any member whose compensation during such fiscal year is not more than \$1,000. The deduction applies to the indemnities of the Members of the Senate and the House of Commons only for the session which commenced Jan. 25, 1934. The basis of superannuation benefits is not reduced by this Act, nor is the gratuity or retiring allowance of a penitentiary employee. Payments under the Superannuation Act or the Superannuation and Retirement Act of an employee receiving not more than \$1,200, which compensation is subject to deduction, shall be paid out of the Consolidated Revenue Fund.

**External Affairs.**—C. 31 is the Admiralty Act, 1934. This Act does not come into force until promulgated by Order in Council and published in the *Canada Gazette*. It repeals and takes the place of the old Admiralty Act, c. 33, R.S.C., 1927, which latter Act derived its jurisdiction from the Acts concerning Admiralty passed by the United Kingdom Parliament. Thus Canada has taken over jurisdiction in admiralty in accordance with its new authority, defined by the Statute of Westminster and by the repeal of the Colonial Laws Validity Act. The Act is made to conform as far as possible to the Admiralty Court legislation of the United Kingdom, subject to such variations as are required in matters of purely local and domestic interest.

**Fisheries.**—C. 6 amends the Fisheries Act by providing that regulations respecting licences may be made under s. 34 of the Act, instead of under s. 33.

**Indian Affairs.**—C. 29 amends the Indian Act. Order in Council of July 12, 1906, provided that the division of the Caughnawaga Indian Reserve into sections be done away with. There was no statutory authority for this Order in Council and this Act validates all acts and proceedings pursuant to the said Order in Council. It furthermore grants to the Governor in Council the power to divide a reserve into sections, not to exceed six, or to provide that the reserve shall form one section, the wishes of the Indians being first ascertained.

**Insurance, Loan and Trust Companies.**—C. 27 amends the Canadian and British Insurance Companies Act. Its purpose is to secure to life insurance companies carrying on business in Canada the right to obtain licences from the Insurance Department. It, however, involves insurance companies other than life. The amendments make it clear that it is not intended to impinge on the exclusive jurisdiction of the Provincial Legislatures in regard to insurance, but that it is intended only to control insurance companies from the point of view of insolvency and bankruptcy, over which the Dominion Parliament has jurisdiction. It provides for the compulsory registration and licensing of Canadian and British companies, and for the voluntary registration of Canadian companies. C. 45 amends the same Act by adding a new paragraph regarding the investment of an insurance company's funds. C. 36 is an amendment to the Foreign Insurance Companies Act. It is really a companion Act to c. 47 above, and its object is to accomplish in regard to legislation about foreign insurance companies what c. 47 accomplishes in regard to legislation about Canadian and British insurance companies. C. 56 amends the

Loan Companies Act by providing that where any company under the Act in respect to loan or other transaction has imposed interest and other charges of any kind exclusive of fees disbursed for registration purposes, amounting to more than 2½ p.c., its charter may be forfeited on the order of the Governor in Council if it is a Dominion company, and that its Dominion powers may be terminated if it is other than a Dominion company.

**Justice.**—C. 8 and 40 amend the R.C.M.P. Act. Under c. 8 "Marine Section" is defined as the water transport and personnel. The term "member of the Force" includes a member of the Marine Section but "officer" does not include an officer in the Marine Section. The Governor in Council may appoint detective inspectors, sub-inspectors, and assistant veterinary surgeons, and also the personnel of the Marine Section. The Force is to have all powers, authority, protection and privileges which any constable has by law. The Force is not to be charged with duties under municipal by-laws except as authorized by the Governor in Council. It is made a statutory offence for a constable to disobey or strike any other member placed in authority over him, or for any constable having authority to oppress or tyrannize over any constable. Certain offences are more fully defined. Allowances are made to officers and constables for time served on a provincial police force, and changes are made in the pension allowances to widows and children of officers and constables under c. 8 as regards officers and under c. 40 as pertaining to constables.

C. 11 amends the Criminal Code in regard to horse racing by increasing the continuous running racing days from seven to fourteen. On any one race track there is not to be held, in one calendar year, more than two race meetings of seven days each at which there are running races.

C. 47 further amends the Criminal Code and deals specifically with: the carrying of firearms; the forfeiting of lottery prizes to the Crown; the extension of incestuous relationships to half-brothers and half-sisters; vehicles equipped for making smoke screens; and several other matters, including: summary trial for certain offences where the person charged gives consent; the disposal of certain charges of theft made before a magistrate in the Yukon Territory in a summary way; the procedure in the case of the summary trial of a corporation for an indictable offence, etc.

C. 21 amends the Oath of Allegiance Act. The oath of allegiance to be taken under the Naturalization Act is excepted from this Act, and the oath subscribed under this Act is greatly simplified and shortened. The Governor in Council is given power to require any person appointed to or holding office under the authority of the Parliament of Canada to take oath of allegiance, and also to take oath of office if said oath is not prescribed by existing law.

**Labour.**—C. 15 is the Relief Act of 1934, which expired on Mar. 31, 1935. Power is given the Governor in Council to make agreements with the provinces respecting relief; to grant financial assistance to any province and to the Canadian Co-operative Wheat Producers Limited; to take measures, when Parliament is not in session, for peace, order and good government; to take measures necessary to maintain the financial position of the Dominion or any province; to provide for relief works under the direction of the Department of the Interior and the Department of National Defence; and to take all such other measures for the carrying out of this Act.

C. 9 amends the Technical Education Act by extending the time during which the unexpended balance shall be carried forward another five years from Mar. 31, 1934.

**Marine.**—C. 60 provides that the Act to amend the Canadian Radio Broadcasting Act, 1932, is continued to April 30, 1935.

**Parliamentary Representation.**—All legislation in regard to the franchise of electors, the preparing of voters lists, and the conduct of elections has previously been contained in one Act entitled the Dominion Elections Act. This Act has now been repealed and legislation regarding the franchise of electors, and the preparing of the voters lists, is incorporated in a new Act entitled The Dominion Franchise Act, while legislation concerning the conduct of elections is contained in a new Act entitled the Dominion Elections Act.

C. 51 is the new Dominion Franchise Act. It makes provision for the appointment of a Franchise Commissioner (by resolution of the House of Commons) whose duty it will be to administer the Act, and to register electors. A Registrar of Electors will be appointed for each electoral district by the said Commissioner. Within six months from the time the Act comes into force the Commissioner is to name the date for a general registration by proclamation in the *Canada Gazette*, and the Registrars are to arrange for public notice of same in the post offices. Two enumerators are to be appointed for each polling division by the Registrars. One appointment is to be made on the nomination of the candidate who received the highest number of votes in the last election and the other on the nomination of the candidate who, representing an approved political interest, received the next highest number of votes. The duties of the enumerators and the manner in which lists shall be prepared and posted are detailed. The lists, made as described, are to form the basic lists of a system of annual revision of continuously existing lists of electors. Such revisions will be made by the Registrars commencing May 15 each year, and the Registrar shall for this purpose be a Court of Revision. Any voter may object to a name being put on or held off a list and a final appeal will be to a judge. Doukhobors who are disqualified from voting in British Columbia in provincial elections are also disqualified under this Act. C. 50 is the new Dominion Election Act. It conforms to the new Franchise Act, but otherwise no fundamental changes are made.

C. 61 amends the Representation Act, 1933, providing that it shall be deemed to be in force for the purpose only of authorizing and enabling the appointment of returning officers pursuant to the Dominion Elections Act, 1934.

**Pensions, Soldier Settlement and Health.**—C. 58 amends the Pension Act by providing for the appointment of a Superior Court judge as acting chairman of the Commission in the event of a vacancy in that office. C. 41 amends the Soldier Settlement Act. Land is deemed to be held by the Director of Soldier Settlement as a corporation sole and not an agent of the Crown when assessment has been made for taxes since Jan. 1, 1933. When land held by the Director is sold for taxes, the agreement for sale is rescinded, but the settler may redeem.

**Public Works.**—C. 59 is the Public Works Construction Act, 1934. Its purpose is to provide for the construction of public works for the general advancement of the country; to accelerate recovery to more normal conditions; and to increase employment and reduce expenditures for relief purposes. The Governor in Council is given power to do all things necessary to complete the works mentioned in Schedule A of the Act. The aggregate amount of the works mentioned in the said Schedule is \$39,690,050.



**Railways.**—C. 3 appoints auditors for the year 1934 to make a continuous audit, under the provisions of s. 13 of the Canadian National-Canadian Pacific Act, 1933, of the accounts of the national railways.

C. 4 ratifies an agreement made between the Canadian Northern Ontario Railway, and the Campbellford, Lake Ontario and Western Railway dated May 1, 1912. C. 5 ratifies an agreement between the C.P.R. and the C.N.R. respecting the joint use by the C.P.R. of certain tracks and premises of the C.N.R. at Saint John, N.B. C. 10 ratifies an agreement between the Transcontinental Railway and the C.P.R. respecting the joint use, by the Transcontinental, of C.P.R. tracks and premises at Quebec. C. 28 is the C.N.R. Financing Act, 1934. It authorizes the provision of moneys to meet expenditures and indebtedness incurred during 1934.

**Trade.**—C. 17 amends the Bills of Exchange Act in two particulars. The name of Armistice Day is changed to Remembrance Day in the list of legal holidays, and the civic holiday of any city, town, municipality or other organized district is made a legal holiday.

The Companies Act, 1934, enacted as 24-25 George V, c. 33, comprises seven parts. Part I regulates the incorporation of companies having share capital by letters patent issued under the seal of the Secretary of State. Part II affords facilities for the creation and organization of corporations without share capital and without purpose of gain. Part III comprises regulations applicable to companies incorporated by Special Act of Parliament. Part IV deals with British and foreign mining companies. Part V confers upon corporate bodies, created otherwise than by letters patent, power to establish pension funds and the like. Part VI declares the law whereby companies are recognized as having authority to maintain share registration and transfer offices, either within or without Canada. Part VII repeals the earlier Companies Acts and amending Acts and provides for the coming into force of the new Act on a date to be proclaimed. A proclamation was issued bringing the Companies Act, 1934, into force and effect in its entirety on Oct. 1, 1934. Significant changes in Part I are included in the sections dealing with the issue of prospectuses and the preparation of accounts and submission of balance sheets and statements at annual meetings of shareholders. With respect to each of these subjects, provision is made for much more complete disclosure of relevant information than was previously prescribed. Door-to-door canvass for subscriptions for shares is forbidden. Shareholders and bondholders are given the right to a copy of each balance sheet and financial statement laid before the annual meeting. Preferred stock without nominal or par value with preference as to principal or subject to redemption is no longer permitted. It will no longer be necessary for a company which does not issue a prospectus to file with the Secretary of State a statement in lieu of prospectus before proceeding to the first allotment of shares.

C. 38 amends the Meat and Canned Foods Act in respect of the seizure of canned fish and shellfish when the cans are falsely marked. Before the amendment the cans could not be seized before they were offered for retail sale, and could therefore be exported while wrongly marked. By virtue of the amendment they can now be seized at any time. Under the amendment such cans are confiscated to the Crown by two justices of the peace or a magistrate having the powers of two justices, but only after proof that the wrong marking was intended to deceive.

C. 54 amends the Food and Drugs Act by enumerating, as Schedule A, certain diseases and prescribing that no person shall import, offer for sale, or sell any remedy represented by label or advertisement to the general public as a treatment for the



said diseases. Provision is further made giving the Minister the power to add to or remove diseases from the list. The Minister is also empowered to add or remove material from Schedule B to the Act. The importations, sale, etc., of compound vinegar, vinegar or substitute for vinegar is also prohibited. Acetic acid found in the possession of a food products manufacturer is liable to seizure and the manufacturer to fine and imprisonment, and the acetic acid shall be forfeited to the Crown.

C. 14 amends the Precious Metals Marking Act by consolidating and revising the Act as it stands at present for the purpose of bringing it into harmony with the changed conditions in the particular trades and branches of business affected by the Act. It does not introduce any radical changes.

**Miscellaneous.**—C. 37 amends the Inquiries Act by adding to it a new part entitled Part IV. This gives to the Governor in Council the right to confer upon an International Commission all the power which may be conferred upon commissioners under Part I of the Act. Such powers are to be exercised in Canada subject to such limitations as the Governor in Council may impose.

C. 7 extends the agreement between His Majesty the King and the city of Ottawa, dated Mar. 30, 1920, for a period of one year from July 1, 1933.

### Section 3.—Provincial Legislation.

A list of the public Acts of the Provincial Legislatures usually appears at this place in the Year Book. In order to conserve space, it has been decided to refer the reader to the different provincial authorities for information in this connection. It is felt that whatever is lost to those readers who are interested in having all provincial legislation brought together and listed under one head, is more than offset by the information of more general interest which it has been possible to include in the limited space available, but which would otherwise have had to be omitted.

### Section 4.—Principal Events of the Year.

#### Subsection 1.—The Economic and Financial Years 1933-1934.

The great depression which had since 1929 involved the whole world in deepening gloom reached its lowest point in North America in the first quarter of 1933. Canadian industrial production was at its minimum for the post-war period in February, and that of the United States in March. Improvement, at first seasonal, but later on more than seasonal, commenced with the advent of spring, continued throughout the summer, and persisted in the autumn when the normal trend of activity in Canada is downward. There were comparatively small declines in employment even in the winter of 1933-34, and improvement was resumed in the spring of 1934 and continued, though at a slower rate, throughout that year. The general gain in activity is shown in the diagram on p. 829, indicating the fluctuations in employment.

The resumption of activity in the spring and summer of 1933, considerable though it was, was not sufficient to prevent that year from being the lowest of the depression. Thus the general index number of employment, which had averaged only 87.5 p.c. of the 1926 base in 1932, fell further to 83.4 on the average of 1933, but rose substantially to 96.0 in 1934. Thus the last completed year, 1934, was distinctly better than either 1932 or 1933, although there was still considerable ground to be covered before a return to normal conditions could be considered as having been effected.

The general advance in 1934 as compared with 1933 is indicated in the chart on p. 1191. Practically all the figures for 1934 indicate improvement as compared with 1933. An outstanding feature of 1934 was the continued decline in interest rates on high-grade securities. Interest rates on Province of Ontario bonds declined from 119.8 p.c. of the 1926 average in January, 1932, to 76.2 p.c. of that average in December, 1934, as shown in the table on p. 879.

**Agriculture.**—The agricultural situation showed marked improvement in 1934, the total value of field crops in that year being estimated at \$544,974,600 as compared with \$453,598,000 in 1933 and \$452,526,900 in 1932. Thus the 1934 figure marks an increase of approximately 20 p.c. over either of the two preceding years and a larger increase over 1931. The aggregate value of farm live stock in Canada as in June, 1934, also showed a moderate increase over 1933.

**Manufacturing.**—The index of manufacturing production averaged 93.4 p.c. of the 1926 base in 1934 as compared with 79.9 in 1933, a gain of 16.9 p.c. The corresponding gain in the index of employment in manufacturing plants was 11.6 p.c. The gain was proportionately greater in the production of producers goods than of consumers goods, the former gaining 28 p.c. as compared with 1933 and the latter 9 p.c.

**Forestry.**—An active export trade was maintained in planks and boards, the outward movement being 1,367,603,000 feet, an advance of 34.4 p.c. over 1933 and a higher figure than in any year since 1930. Newsprint output showed a gain of 28.8 p.c. as compared with 1933. The 1934 output was the highest on record except for 1929.

**Mines.**—Mineral production of Canada in 1934 was valued at \$277,492,000, an increase of almost \$56,000,000 over 1933 and of \$86,000,000 over 1932. The value of the output of metals reached the highest point on record, both gold and base metals contributing to this result. The output of copper, of lead, of zinc and of nickel was the highest ever recorded, while coal production increased 16.7 p.c. over 1933.

**Hydro-Electric Power.**—The output of hydro-electric power in 1934 was 21,167,700,000 k.w.h., a gain of 20.6 p.c. over 1933 and of about 17 p.c. over 1930, the previous record year.

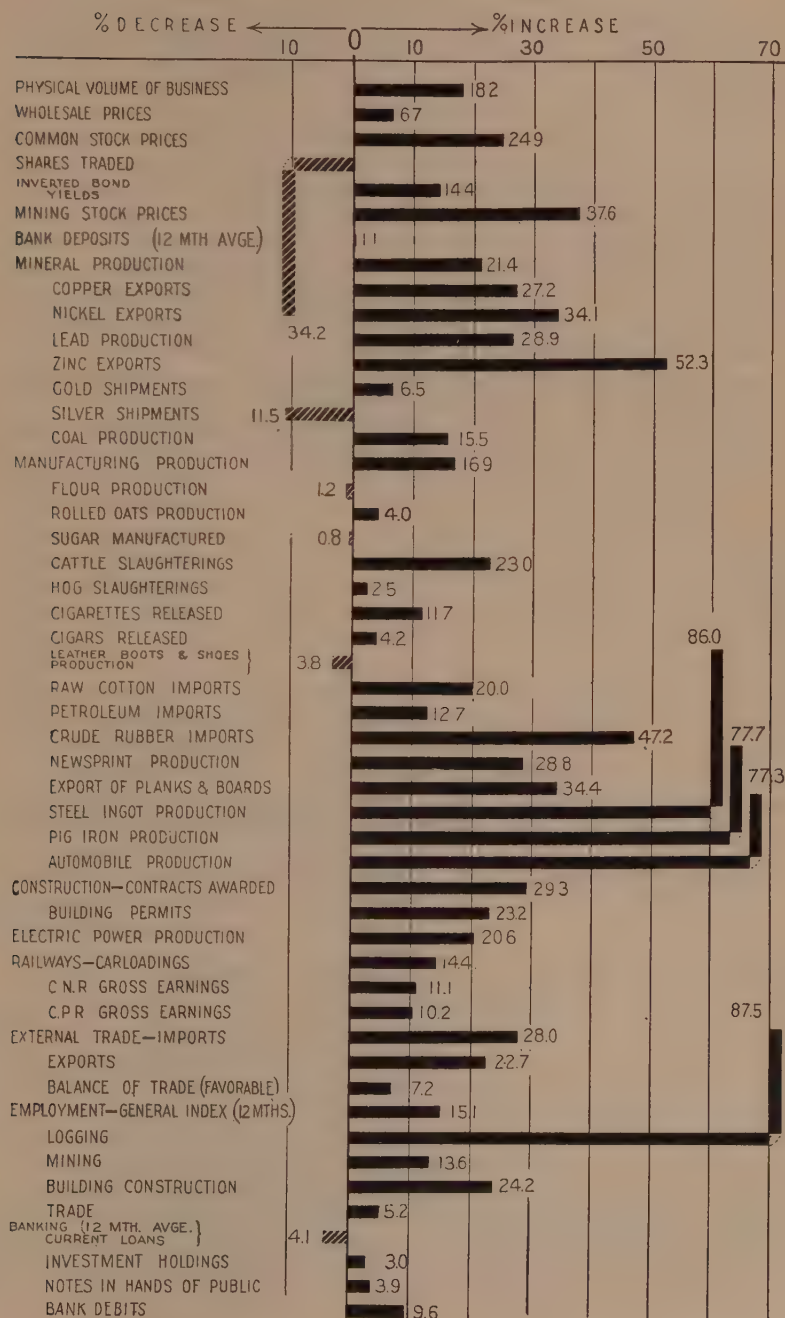
**Construction.**—While still at a low level, construction contracts awarded amounted to \$125,812,000 in 1934 as compared with \$97,290,000 in 1933, a gain of 29.3 p.c.

**External Trade.**—Canada's external trade in the calendar year 1934 showed considerable advance over the preceding year. Imports were valued at \$513,469,000 as compared with \$401,214,000 in 1933, an increase of 28.0 p.c. Domestic exports were \$652,887,000 in 1934 as compared with \$531,749,000 in 1933, a gain of 22.8 p.c. Exports of new gold are not included in this figure. If they had been, to the recorded favourable balance of \$146,434,000 (allowing for foreign exports) there would be added another \$90,982,000, being the excess of gold exported over gold imported.

**Transportation.**—Railway traffic showed considerable gain in 1934, the total car-loadings of revenue freight being about 2,325,000 cars as compared with 2,032,000 in 1933, a gain of 14.4 p.c. Both the Canadian National and the Canadian Pacific recorded gains averaging 10 to 11 p.c. in gross operating revenues in 1934 over 1933. Cargo tonnage at leading ports also showed an increase.

# THE ECONOMIC SITUATION OF CANADA

STATISTICS FOR THE YEAR 1934  
COMPARED WITH 1933



**Wholesale Prices.**—Wholesale prices were relatively steady during 1934 at about 72 p.c. of the 1926 average. These prices were substantially higher than the low point of 63.6 p.c. of the 1926 base reached in February, 1933.

**Bank Debits.**—The grand total of bank debits, *i.e.*, the grand total of cheques charged to individual accounts, at the thirty-two clearing centres of Canada in 1934 showed a gain of 9.6 p.c. over 1933, being \$32,867,000,000 as compared with \$29,981,000,000. (See p. 989.)

**Comparisons of Canadian Recovery with That of Other Countries.**—The recovery of the industrial production of Canada in 1934 as compared with 1933 is shown by the following statement to have been among the most rapid recorded by any of the countries which maintain indexes of industrial production. While the composition of this index varies so greatly as among the countries that it is impossible for any valid conclusion to be drawn from the relative figures for different countries, the percentage gain between 1933 and 1934 is of considerable interest, as is also the percentage of gain shown in the second statement indicating the degree of recovery in each country from the lowest point reached in 1933.

**Average Index Numbers of Industrial Production in Leading Countries for 1934, Compared with 1933.**

(1928=100, all figures having been placed on the 1928 base by the statisticians of the League of Nations.)

| Country.            | 1933<br>Average. | 1934<br>Average. | (+) Increase.<br>(-) Decrease. |
|---------------------|------------------|------------------|--------------------------------|
|                     |                  |                  | p.c.                           |
| Germany.....        | 69.0             | 85.8             | +24.3                          |
| Sweden.....         | 86.5             | 105.8            | +22.3                          |
| Canada.....         | 65.2             | 79.5             | +21.9                          |
| Japan.....          | 126.1            | 143.0 (est.)     | +13.4                          |
| Poland.....         | 55.4             | 62.8             | +13.4                          |
| United Kingdom..... | 93.5             | 104.7            | +12.0                          |
| Czechoslovakia..... | 62.6             | 69.4             | +10.9                          |
| Austria.....        | 67.3             | 74.0             | +10.0                          |
| Chile.....          | 118.5            | 130.0            | + 9.7                          |
| Italy.....          | 80.5             | 88.3             | + 9.7                          |
| Norway.....         | 104.5            | 111.6            | + 6.8                          |
| United States.....  | 68.5             | 71.2             | + 3.9                          |
| Netherlands.....    | 70.9             | 71.6             | + 1.0                          |
| Belgium.....        | 72.2             | 70.8             | - 2.0                          |
| France.....         | 84.3             | 78.0             | - 7.5                          |

**Index Numbers of Industrial Production in Various Countries for the Latest Month of 1935, Compared with the Lowest Point of 1933.**

(1928=100.)

| Country.            | Lowest Point of<br>1933. | Latest Month<br>1935.       | (+) Increase<br>(-) Decrease. |
|---------------------|--------------------------|-----------------------------|-------------------------------|
|                     |                          |                             | p.c.                          |
| Canada.....         | 51.7 (Feb.)              | 85.8 (Feb.)                 | +65                           |
| United States.....  | 53.2 (Mar.)              | 80.2 (Feb.)                 | +51                           |
| Norway.....         | 84.2 (July)              | 121.0 (Feb.)                | +42                           |
| Germany.....        | 62.9 (Jan.)              | 87.5 (Jan.)                 | +40                           |
| Sweden.....         | 80.8 (Apr.)              | 112.5 (Feb.)                | +39                           |
| Italy.....          | 70.9 (Jan.)              | 97.1 (Feb.)                 | +37                           |
| Chile.....          | 109.1 (July)             | 145.8 (Feb.)                | +34                           |
| Poland.....         | 46.5 (Mar.) <sup>1</sup> | 59.6 (Jan.)                 | +28                           |
| Austria.....        | 60.6 (Jan.-Mar.)         | 75.7 (Jan.)                 | +25                           |
| Japan.....          | 124.1 (Mar.)             | 152.6 (Oct. 1934)           | +23                           |
| Greece.....         | 100.2 (July)             | 122.8 (Dec. 1934)           | +23                           |
| United Kingdom..... | 89.9 (Jan.-Mar.)         | 110.0 (Oct.-<br>Dec. 1934.) | +22                           |
| Czechoslovakia..... | 58.6 (Mar.)              | 67.4 (Jan.)                 | +15                           |
| Belgium.....        | 64.3 (Aug.)              | 67.3 (Jan.)                 | + 5                           |
| Netherlands.....    | 66.5 (Oct.)              | 69.0 (Feb.)                 | + 4                           |
| France.....         | 78.7 (Jan.)              | 73.2 (Feb.)                 | - 7                           |

<sup>1</sup>Textile strike.



**Subsection 2.—Other Principal Events of 1933 and 1934.**

**Provincial General Elections.**—During the two years 1933 and 1934, general elections took place in four of the provinces. In 1933, general elections took place in Nova Scotia on Aug. 22, and in British Columbia on Nov. 2; the Liberals, under the respective leadership of A. L. Macdonald and T. D. Pattullo, were returned. On June 19, 1934, general elections took place in Ontario and Saskatchewan; the Liberals, under the respective leaderships of M. F. Hepburn and J. G. Gardiner, were returned.

**Celebration of Arrival of United Empire Loyalists.**—On May 18, 1933, the one-hundred-and-fiftieth anniversary of the arrival of the United Empire Loyalists at Saint John was celebrated in that city. The occasion was made a public holiday in New Brunswick and a message of congratulations was received from the King, while the Prime Minister of Canada, a descendant of the United Empire Loyalists, received the freedom of the city, reviewed military and naval units on parade, and was the principal speaker of the occasion.

**Centennial of the City of Toronto.**—On Mar. 6, 1934, there was celebrated the centennial completion of the first century of the existence of Toronto as a self-governing city. Greetings were received from different parts of the Empire. The Prime Minister of Canada and the Leader of the Opposition were present at the special centennial meeting of the City Council and the civic luncheon.

**Tercentenary of Three Rivers.**—On July 15, there commenced the celebration of the third centenary of the foundation of the city of Three Rivers by the *Sieur de Lavolette*. A monument to the founder was unveiled by the Lieutenant-Governor of Quebec and an historical pageant illustrating the history of the city was staged.

**Jacques Cartier Quatercentennial.**—The four-hundredth anniversary of the discovery of Canada by Jacques Cartier, sea-captain of St. Malo, was celebrated in August and early September. The Government of Canada invited the Governments of the United Kingdom, the French Republic and the United States to participate in the celebrations, and the following official delegates represented these countries: The United Kingdom—The Rt. Hon. H. A. L. Fisher, F.R.S., and Admiral of the Fleet Sir Roger Keyes, Bt., G.C.B., K.C.V.O.; The French Republic—M. P. E. Flandin, Minister of Public Works and M. S. Charlety, Rector of the University of Paris; the United States—The Hon. Warren D. Robbins and Admiral Wat Tyler Cluverius.

The official itinerary of the reception and celebration was as follows: Charlottetown, Aug. 24; Gaspé, Aug. 25-26; Quebec, Aug. 27-30; Trois Rivières, Aug. 30; Montreal, Aug. 31-Sept. 2; Ottawa, Sept. 2-3; Toronto, Sept. 4; Niagara, Sept. 5-6; Rochester, Sept. 6. The celebration centred at Gaspé, where the Prime Ministers of the Dominion and the province of Quebec, together with Cardinal Villeneuve, took part in the proceedings.

**Subsection 3.—Obituary.**

**1933.**—(See also pp. 1112-1113 of the 1933 Year Book.) June 28, John F. Smith, Eltham, England, Canadian Fruit Trade Commissioner. July 7, Albert E. Horton, Ottawa, Ont., Chief Clerk of Sessional Papers, House of Commons. July 15, Hon. Finlay G. MacDiarmid, Toronto, Ont., former Minister of Public Works

and Highways of Ontario. July 16, James Kirkwood, Ospringe, Ont., former M.P. for East Wellington. July 18, Sir François Lemieux, Quebec, Que., Chief Justice of the Superior Court of Quebec. July 19, Paul E. Caron, Lake Beauport, Que., Secretary of the Revenue Department of Quebec. July 26, F. A. Labelle, Hull, Que., Deputy Chief Railway Commissioner. Aug. 3, J. D. Robertson, Edmonton, Alta., Deputy Minister of Public Works for Alberta. Aug. 10, Judge James Herbert Denton, Toronto, Ont., Senior County Judge of the County of York. Aug. 12, Dr. M. O. Malte, Dominion Botanist, Department of Mines, Ottawa, Ont. Aug. 13, Dr. William Terrill Macoun, Dominion Horticulturist, Ottawa, Ont. Aug. 13, Philip James Henry, Ridgetown, Ont., M.L.A. for East Kent. Aug. 25, Hon. Senator Gideon D. Robertson, LL.D., Ottawa, Ont., former Minister of Labour. Aug. 26, George Langley, Maymount, Sask., former Minister of Municipal Affairs. Aug. 27, Col. Henry Brock, Toronto, Ont., former Director of National Service. Sept. 1, Hugh A. McPhee, Ottawa, Ont., Head of the Review Branch of the Department of Pensions. Sept. 3, Dr. Alfred G. Burrows, Toronto, Ont., Provincial Geologist. Sept. 6, Lieut.-Col. A. W. Duffus, Vancouver, B.C., former Assistant Commissioner of the Royal Canadian Mounted Police. Sept. 12, Hon. Frederick L. Béique, Montreal, Que., Senator for De Salaberry. Sept. 15, J. E. Emile Leonard, Montreal, Que., ex-M.P. for Laval. Sept. 16, Dr. Louis Martial Pelletier, Hawkesbury, Ont., former Chief Translator, Department of Public Archives. Sept. 24, William Edgar Raney, Toronto, Ont., Justice of the Supreme Court and former Attorney General of Ontario. Sept. 25, Hon. Pascal Poirier, Shediac, N.B., Senator for Acadie. Sept. 26, A. E. Poirier, Montreal, Que., ex-Recorder of Montreal. Oct. 7, John D. Sperry, Petite Rivière, N.S., former M.P. Oct. 10, Hon. James David Stewart, K.C., Charlottetown, P.E.I., Premier of Prince Edward Island. Oct. 11, Colonel W. J. Keightley, Quebec, Que., Chief Inspector of Ammunition at Dominion Arsenal. Oct. 20, W. C. Wells, Vancouver, B.C., former Minister of Lands in British Columbia. Oct. 24, Fred M. Sproule, Hampton, N.B., former Deputy Speaker of New Brunswick Legislative Assembly. Oct. 25, W. J. Bowser, K.C., Vancouver, B.C., former Premier of British Columbia. Nov. 5, Fred J. Skinner, Kingston, Ont., M.L.A. for Leeds. Nov. 6, John Chisholm, K.C., Montreal, Que., former Assistant Deputy Minister of Justice. Nov. 8, Ormond Higman, Ottawa, Ont., former Chief Electrical Engineer, Department of Trade and Commerce. Nov. 9, George Webster, Calgary, Alta., M.L.A. for Calgary. Nov. 10, W. J. O'Neill, Ottawa, Ont., Chief of the Stationery Branch of the Senate. Nov. 15, Louis Guyon, Montreal, Que., former Deputy Minister of Labour of the Province of Quebec. Nov. 22, J. M. Chalifour, Ottawa, Ont., Chief Auditor, Engineer's Branch, Department of Public Works. Nov. 23, Edouard Fafard, Quebec, Que., former Superintendent, Provincial Highways Department. Nov. 30, General Sir A. W. Currie, G.C.M.G., K.C.B., V.D., Montreal, Que., Commander of the Canadian Corps in the Great War. Dec. 1, Hon. John Fisher, Paris, Ont., Senator for Brant, Ont. Dec. 3, Lieut.-Col. R. O. Wheatley, M.C., Montreal, Que., former Private Secretary to the Prime Minister. Dec. 5, Colonel C. F. Hamilton, Ottawa, Ont., Liaison-Intelligence Officer of the Royal Canadian Mounted Police. Dec. 9, Hon. Charles Dalton, Charlottetown, P.E.I., Lieutenant-Governor of Prince Edward Island. Dec. 11, Mr. Justice Pierre d'Auteuil, Quebec, Que., Judge of the Superior Court. Dec. 13, Peter Christie, Manchester, Ont., former M.P. for Ontario County.

**1934.**—Jan. 1, Hon. Ed. A. Dunlop, Toronto, Ont., Provincial Treasurer of Ontario. Jan. 2, Dr. W. Delaney, Quebec, Que., Superintendent of Quebec Lands and Forests. Jan. 5, Dr. Joseph Elzéar Masson, Montreal, Que., Inspector of the Provincial

Bureau of Health and former M.L.A. for Montmagny. Jan. 6, Hon. Jules Tessier K.C., Quebec, Que., Senator for De La Durantaye. Jan. 8, Hon. Dr. J. D. Monteith Stratford, Ont., Minister of Public Works and Labour, Ontario. Jan. 9, Lieut.-Col. H. J. Coghill, Ottawa, Ont., Sergeant-at-Arms of the House of Commons. Jan. 11, Hon. E. B. Ryckman, Toronto, Ont., M.P. for Toronto East and former Minister of National Revenue. Jan. 19, Mr. Justice L. J. A. Brossard, Montreal, Que., Judge of the Superior Court. Jan. 20, Mr. Justice Paul G. Martineau, Montreal, Que., Judge of the Superior Court. Jan. 22, Mr. Justice J. P. Byrne, Bathurst, N.B., Justice of the Supreme Court of New Brunswick and former Attorney General. Jan. 22, Hon. John Stanfield, Truro, N.S., Senator for Colchester. Jan. 23, Major-General C. J. Armstrong, C.B., C.M.G., V.D., Montreal, Que., late D.O.C., M.D. No. 1, London, Ontario. Jan. 25, William E. Scott, Victoria, B.C., former Deputy Minister of the British Columbia Department of Agriculture. Jan. 26, Hon. W. H. Cushing, Calgary, Alta., First Minister of Public Works for Alberta. Jan. 29, Edward Bayly, K.C., Toronto, Ont., Deputy Attorney General of Ontario. J. F. St. Cyr, Montreal, Que., former Judge of the Superior Court. John F. Wills, Belleville, Ont., Junior Judge of Hastings County. Jan. 31, Mr. Justice William H. Wright, Toronto, Ont., Judge of the Supreme Court of Ontario. Feb. 1, Dr. George V. Harcourt, Powassan, Ont., M.L.A. for Parry Sound. Feb. 2, Hon. Robert Forke, P.C., Winnipeg, Man., Senator for Brandon. Feb. 3, Major A. J. Bell, Pembroke, Ont., former Commissioner of the Northwest Territories. Feb. 9, Gustave Evanturel, B.L., Alfred, Ont., former M.L.A. and M.P. for Prescott County. Feb. 20, Sir Hormisdas Laporte, P.C., LL.D., Montreal, Que., former Chairman, War Purchasing Commission. Feb. 21, Gilbert Gaudet, K.C., Charlottetown, P.E.I., former Attorney General of P.E.I. Feb. 23, Samuel Bray, C.E., D.L.S., Ottawa, Ont., former Chief Surveyor, Dept. of Indian Affairs. Mar. 2, Thomas Christie, Lachute, Que., former M.P. for Argenteuil. Mar. 3, Hon. L. A. Wilson, Montreal, Que., Senator for Rigaud. Mar. 5, Christopher P. Chisholm, K.C., Antigonish, N.S., former Minister of Public Works and Mines of Nova Scotia and M.L.C. 1916-28. Mar. 7, Marquis of Aberdeen and Temair, Tarland, Scotland, Governor General of Canada, 1893-98. Mar. 11, Mr. Justice Eric N. Armour, Toronto, Ont., Judge of the Supreme Court of Ontario. Mar. 19, James Cobban, Regina, Sask., M.L.A. for Elrose. Mar. 21, Robert Holmes, Toronto, Ont., former M.P. for West Huron. Mar. 22, Col. A. Z. Palmer, Ottawa, Ont., former Deputy Adjutant General. Mar. 23, Lt.-Col. W. J. Bentley, Sarnia, Ont., former Director of Dental Services, C.E.F. Mar. 26, Roderick F. Tolmie, Victoria, B.C., former provincial Deputy Minister of Mines. April 5, Mr. Justice G. Desaulniers, Montreal Que., Judge of the Superior Court of Montreal. April 13, Judge Hugh St. O. Cayley, Vancouver, B.C., Senior Judge of the Vancouver County Court and former Premier of the N.W.T. April 17, Harley C. E. Anderson, North Vancouver, B.C., M.L.A. for North Vancouver. Frank S. Cahill, Campbell's Bay, Que., former M.P. for Pontiac. April 29, James F. Crowley, M.V.O., Ottawa, Ont., Assistant Secretary to the Governor General. April 30, Herbert C. Graham, Victoria, B.C., former M.P. for South Brandon. May 3, Col. T. H. Lennox, Toronto, Ont., M.P., for North York. May 6, Lt.-Col. O. E. Talbot, Quebec, Que., former M.P. for Bellechasse. May 9, Louis Demers, Quebec, Que., Judge of the Court of Sessions of Quebec. May 11, J. A. Grierson, Weymouth, N.S., presiding judge for Yarmouth, Digby and Annapolis counties. Edward C. E. Huycke, Peterborough, Ont., judge of the County Court of Peterborough. Major A. T. Phillips, Ottawa, Ont., Superintending Engineer, Rideau Canal. May 20, Mr. Justice Erastus E. Howard, Montreal, Que., Judge of the



Court of King's Bench, Appeal side. Hon. Richard M. Meredith, London, Ont., former Chief Justice of the Supreme Court of Ontario. May 21, Hon. Peter Smith, Stratford, Ont., former Provincial Treasurer of Ontario. May 26, Mr. Justice Charles Garrow, Toronto, Ont., Judge of the Supreme Court of Ontario. May 27, Dr. William Spankie, Kingston, Ont., M.P. for Frontenac-Addington. May 28, Major-General Cortlandt Starnes, St. Hilaire, Que., former Commissioner of the R.C.M.P. May 30, William Currie, Campbellton, N.B., former Speaker of the Legislature of New Brunswick. June 2, Lieut.-Col. H. C. Sparling, D.S.O., Halifax, N.S., General Staff Officer, Sixth Military District. June 6, Dr. Leeming A. Carr, Hamilton, Ont., Sheriff of Wentworth County and former Minister without Portfolio in the Ontario Government. June 15, Hon. James P. Rankin, Stratford, Ont., Senator for Perth North. June 17, Alex. G. Low, Ottawa, Ont., District Inspector of Postal Services. June 18, Hon. C. H. Archer, Montreal, Que., retired Judge of the Superior Court of Quebec. June 20, W. J. Glover, Hamilton, Ont., former Controller of Revenue, Post Office Dept. July 1, D. P. Munro, K.C., Waterdown, Ont., M.L.A.-elect for Wellington South. July 16, Francis Ronan Powell, Parry Sound, Ont., former District Judge of Parry Sound. July 27, George A. Morrison, Montreal, Que., Acting Recorder of the City of Montreal. July 30, Lewis Wigle, Leamington, Ont., former M.L.A. for Essex County and M.P. for South Essex. July 31, Mr. Justice Edmund Guérin, Montreal, Que., Judge of the Court of King's Bench. Aug. 5, William J. E. Casey, Ottawa, Ont., Assistant Deputy Minister of Fisheries. Aug. 12, Hon. J. R. Cooke, Belleville, Ont., former Minister without Portfolio in the Ontario Cabinet and former Chairman of the Ontario Hydro-Electric Commission. Aug. 14, John L. Skillicorn, Toronto, Ont., Assistant Dominion Carillonneur. Aug. 22, Conrad F. Just, London, England, former Canadian Trade Commissioner at Hamburg. Aug. 28, John Sylvain, Ottawa, Ont., Chief Translator in the Interior Dept. Aug. 30, George E. McIntosh, Ottawa, Ont., Dominion Fruit Commissioner. Sept. 1, Hon. W. A. Black, Halifax, N.S., M.P. for Halifax and former Minister of Railways. Sept. 6, Andrew B. Ingram, Toronto, Ont., former M.L.A. for West Elgin and M.P. for East Elgin and former Vice-Chairman Ontario Railway and Municipal Board. Sept. 28, Dr. W. D. Cowan, Regina, Sask., M.P. for Long Lake, Sask. Colin Inkster, Winnipeg, Man., ex-M.L.A. and former Minister of Agriculture. Oct. 1, Dr. J. A. Denis, Montreal, Que., M.P. for St. Denis. Oct. 11, Désiré Lahaie, Buckingham, Que., M.L.A. for Papineau. Oct. 12, His Honour W. S. Crowe, Sydney, N.S., Judge of No. 7 District Court. Nov. 1, Alfred Lefurgey, Vancouver, B.C., former M.P. for Prince, P.E.I. Nov. 3, Médéric Duval, Montreal, Que., M.L.A. for Montcalm, Que. Nov. 10, Wm. J. Boulton, Ottawa, Ont., Commercial Intelligence Service, Dept. of Trade and Commerce. Nov. 28, Hon. Wm. A. Galliher, Victoria, B.C., former Judge of the Appeal Court of B.C. Dec. 14, Thomas L. Richard, Ottawa, Ont., Commissioner of Patents. Dec. 17, Hon. J. R. Douglas, Montreal, Que., former Lieutenant-Governor of Nova Scotia. Dec. 18, Harvey B. Jackson, Ottawa, Ont., Inspector, Dept. of National Revenue. Dec. 19, Augustin A. Legault, Maniwaki, Que., M.L.A. for Gatineau County. Dec. 22, M. G. Larochelle, B.A., K.C., LL.D., Sorel, Que., former Civil Service Commissioner. Dec. 26, Captain J. E. Bernier, Lévis, Que., formerly of the Dept. of Marine, noted as an Arctic explorer. Georges Dansereau, Grenville, Que., M.L.A. for Argenteuil. Dec. 27, James A. Ellis, Ottawa, Ont., Secretary of the Unemployment Relief Department of Ontario and former M.L.A. for West Ottawa. 1935.—Jan. 1, George B. Nicholson, Toronto, Ont., M.P. for East Algoma. Jan. 8, James Hogan, Meacham, Sask., M.L.A. for Vonda. Jan. 13, Major C. H. West, Mayne Island, B.C., former Super-



intendent of the R.N.W.M.P. Jan. 15, Judge E. A. C. McLorg, Los Angeles, Cal., Judge of the District Court of Saskatoon. Jan. 17, Theodore Legault, Toronto, Ont., M.L.A. for Nipissing. Jan. 19, W. C. Little, Ottawa, Ont., former Chief Accountant of the Dept. of Railways and Canals. Jan. 28, Hon. Paul L. Hatfield, Yarmouth, N.S., Senator for Yarmouth. Jan. 29, Mr. Justice Louis Coderre, Montreal, Que., Judge of the Superior Court of Quebec and former Secretary of State. Feb. 3, Joseph Wilkins, Ottawa, Ont., former Assistant to the Editor of the Canada Year Book. Feb. 7, J. F. Hume, Nelson, B.C., former Provincial Secretary and Minister of Mines for British Columbia. Feb. 10, Spurgeon Campbell, Winnipeg, Man., former O.C. 4th Can. Casualty Clearing Station. Feb. 21, Dr. David H. McFadden, Emerson, Man., former Minister of Public Works for Manitoba. Hon. Albert A. Préfontaine, Winnipeg, Man., Minister without Portfolio in the Manitoba Cabinet. Feb. 24, Captain James Adamson, Helena, Montana, U.S.A., former Clerk of the Senate. Feb. 28, B. F. McGregor, Regina, Sask., M.L.A. for Gravelbourg. Mar. 5, Armand R. LaVergne, K.C., Ottawa, Ont., Deputy Speaker of the House of Commons and M.P. for Montmagny. Mar. 15, Hon. J. D. McGregor, Winnipeg, Man., former Lieutenant-Governor of Manitoba. Mar. 16, Hon. Wm. F. Todd, St. Stephen, N.B., former Lieutenant-Governor of New Brunswick. Mar. 22, Thomas Wm. McGarry, K.C., Toronto, Ont., former Provincial Treasurer of Ontario. Mar. 30, Hon. A. W. Morris, former Provincial Treasurer of Quebec. April 1, Donald F. Kellner, Edmonton, Alta., former M.P. for East Edmonton. J. McNairn Hall, Sault Ste. Marie, Ont., Junior Judge of the District of Algoma. April 3, Hon. W. G. Mitchell, Montreal, Que., former Provincial Treasurer of Quebec and M.P. for St. Antoine. Reuben E. Truax, Walkerton, Ont., former M.P. and M.L.A. for South Bruce. April 7, Hon. W. D. Robbins, New York, U.S.A., U.S. Minister to Canada. April 13, Justice John M. McEvoy, Toronto, Ont., of the Supreme Court of Ontario. April 18, W. K. Baldwin, Baldwin's Mills, Que., former M.P. for Stanstead, Que. April 19, Frederick J. Coulthard, New Westminster, B.C., Chairman of the New Westminster Harbour Commission. April 21, Eugène Lafontaine, Montreal, Que., former Chief Justice of the Court of Appeal of Quebec. Inspector Arthur Patteson, Director of Intelligence and Liaison Officer, R.C.M.P. April 22, Hon. H. S. Béland, Kingston, Ont., Senator for Lauzon, Que., and former Cabinet Minister. April 25, Sir Albert E. Gooderham, K.C.M.G., Toronto, Ont. May 2, Hon. Peter F. Martin, Halifax, N.S., Senator for Halifax. May 7, Hon. Eugène Roberge, Quebec, Que., M.L.C. for Lauzon. May 8, Hon. D. L. McLeod, Winnipeg, Man., Provincial Secretary and Municipal Commissioner. May 15, J. Maurice Gabias, New York, U.S.A., M.L.A. for St. Henry. Seraphin R. Leger, Nashwaak Bridge, N.B., M.L.A. for Gloucester. May 18, Hon. John Lewis, Toronto, Ont., Senator for Toronto. May 22, Hon. Frederick L. Schaffner, Boissevain, Man., Senator for Boissevain.

### Section 5.—Extracts from the Canada Gazette—Official Appointments, Commissions, Etc.\*

**Lieutenant-Governors, 1933.**—Dec. 28, George Desbrisay DeBlois, Esq., Charlottetown, P.E.I.; to be Lieutenant-Governor of the Province of P.E.I., *vice* the Hon. Charles Dalton, deceased. **1934.**—April 24, Hon. Esioff Léon Patenaude, P.C., K.C., Montreal, Que.; to be Lieutenant-Governor of the Province of Quebec. Nov. 17, William Johnston Tupper, Esq., K.C., Winnipeg, Man.; to be Lieutenant-Governor of Manitoba (effective Dec. 1, 1934). **1935.**—Feb. 5, Col. the Hon. Murray MacLaren, P.C., C.A.M.C., C.M.G., LL.D., M.D., C.M., M.R.C.S., F.A.C.S., F.R.C.S., Saint John, N.B.; to be Lieutenant-Governor of the Province of New Brunswick.

\* This list is in continuance of that at pp. 1113-1117 of the 1933 Year Book.

**Privy Councillors, 1933.**—Dec. 6, Robert Charles Matthews, Esq., of the City of Toronto; to be a Member of the King's Privy Council for Canada. **1934.**—Nov. 17, Richard Burpee Hanson, B.A., LL.B., K.C., M.P., Fredericton, N.B.; to be a Member of the King's Privy Council for Canada. Grote Stirling, Esq., C.E., M.P., Kelowna, B.C.; to be a member of the King's Privy Council for Canada.

**Cabinet Ministers, 1933.**—Dec. 6, The Hon. Robert Charles Matthews, P.C., to be Minister of National Revenue. **1934.**—Nov. 17, The Hon. Richard Burpee Hanson, B.A., P.C., LL.B., K.C., M.P.; to be Minister of Trade and Commerce, *vice* The Hon. H. H. Stevens, resigned. The Hon. Grote Stirling, P.C.; to be Minister of National Defence, *vice* The Hon. D. M. Sutherland, resigned. The Hon. Donald Matheson Sutherland, P.C.; to be Minister of Pensions and National Health, *vice* the Hon. Murray MacLaren, resigned.

**Senators, 1933.**—Dec. 30, Hon. Guillaume André Fauteux, P.C., Outremont, Que.; Lucien Moraud, K.C., Quebec, Que.; Horatio Clarence Hocken, Toronto, Ont.; Alfred Ernest Fripp, K.C., Ottawa, Ont.; Louis Coté, K.C., Ottawa, Ont.; Ralph Byron Horner, Blaine Lake, Sask.; Walter Morley Aseltine, K.C., Rose-town, Sask.

**New Members of the House of Commons, Seventeenth Parliament, 1933.**—Oct. 23, Aimé Boucher, elected for Yamaska, Que.; Joseph E. Michaud, elected for Restigouche-Madawaska, N.B.; John A. MacMillan, elected for Mackenzie, Sask. **1934.**—April 16, Almon Secord Rennie, elected for South Oxford; Sept. 24, Wilson H. Mills, elected for Elgin West, Ont.; Thomas L. Church, elected for Toronto East, Ont.; William P. Mulock, elected for York North, Ont.; Hugh B. McKinnon, elected for Kenora-Rainy River, Ont.; Colin Campbell, elected for Frontenac-Addington.

**Honorary Aides-de-Camp, 1933.**—Nov. 13, Col. J. A. Hope, D.S.O., M.C., V.D., resigns his appointment as Honorary Aide-de-Camp to His Excellency the Governor General, with effect from Sept. 11, 1933, on appointment as a Judge of the High Court of Justice for Ontario. Nov. 13, His Excellency the Governor General has been pleased to approve of Lieut.-Colonel W. P. Wilgar, D.S.O., Officer Commanding, Queen's University Contingent, Canadian Officers' Training Corps, as an Honorary Aide-de-Camp, effective Nov. 10, 1933. **1934.**—April 5, Lieut.-Colonel J. C. Foy, V.D., relinquishes his appointment as Honorary Aide-de-Camp to His Excellency the Governor General on completion of tenure of command of The Governor General's Foot Guards. Lieut.-Colonel G. G. Chrysler, M.C., V.D., is appointed an Honorary Aide-de-Camp on assuming command of The Governor General's Foot Guards.

**Official Appointments, 1933.**—Sept. 7, The Honourable the Postmaster General of Canada and Edward James Underwood, Esquire, and Hormidas Beaulieu, Esq., both of the Post Office Department, Ottawa; to be official representatives of Canada at the Congress of the Universal Postal Union to be held at Cairo, Egypt. Sept. 13, Robert Elmer Wodehouse, O.B.E., M.D., D.P.H., Ottawa, Executive Secretary of the Canadian Tuberculosis Association; to be Deputy Minister of Pensions and National Health, effective Oct. 1. Sept. 16, Ephraim Herbert Coleman, Esq., K.C., of Winnipeg, Man.; to be Under-Secretary of State and Deputy Registrar General of Canada. Joseph Oscar Patenaude, Esq., Ottawa, Ont.; to be King's Printer and Controller of Stationery. François Napoléon Garceau, Esq., K.C., of Drummondville, Quebec; to be a Member of the Board of Railway

Commissioners for Canada and to be Deputy Chief Commissioner. E. René Richard, LL.B., of Sackville, N.B.; to be a member of the Pension Appeal Court. Sept. 28, John Thomas Connelly Thompson, D.S.O., K.C.; Robert John Kee, M.D.; James F. Ellis, M.D.; Douglas Washburn Gray, M.D., C.M.; Joseph Alphonse Lionel Robert, M.D., C.M.; Howard Alfred Lorne Conn, M.C.; Sir Richard Ernest William Turner, V.C., K.C.B., K.C.M.G., D.S.O., and Stephen Jones, Esq.; to be members of the Canadian Pension Commission; John T. C. Thompson, D.S.O., K.C.; to be Chairman. Nov. 29, Hon. Hugh Alexander Stewart, Minister of Public Works; to be Acting Secretary of State for Canada during the existing absence of the Honourable the Secretary of State. Dec. 21, Hon. James Alexander MacDonald, Chief Justice of the Province of British Columbia; to be Administrator of the Government of the said Province during the absence of the Honourable the Lieutenant-Governor from Jan. 1 to Feb. 12, 1934, both dates inclusive. Dec. 23, Hon. Charles Percy Fullerton, K.C., of Ottawa, Chairman of the Board of Railway Commissioners for Canada; Frederick K. Morrow, Esq., Toronto, and J. Edouard Labelle, Esq., K.C., Montreal, to be Trustees in the place and stead of and in succession to the incorporators of the Canadian National Railway Company; Hon. Charles Percy Fullerton to be Chairman. Dec. 30, Hugh Day Scully, Esq., Ottawa, Ont.; to be Commissioner of Customs. David Sim, Esq., Ottawa, Ont.; to be Commissioner of Excise. 1934.—Jan. 17, William Murray Dickson, Esq., Ottawa, Ont.; to be Deputy Minister of Labour. Feb. 13, Major Milton Fowler Gregg, V.C., M.C. and bar, M.A.; to be Sergeant-at-Arms of the House of Commons. Feb. 20, Brigadier-General E. A. Cruickshank, LL.D., F.R.S.C., F.R. Hist. Soc., Ottawa, Ont.; His Honour Judge F. W. Howay, LL.B., F.R.S.C., New Westminster, B.C.; J. C. Webster, Esq., M.D., D.Sc., LL.D., F.R.S.C., Shediac, N.B.; Prof. D. C. Harvey, M.A., F.R.S.C., Halifax, N.S.; Prof. Fred Landon, M.A., F.R.S.C., London, Ont.; Hon. E. F. Surveyer, B.A., LL.M., B.C.L., F.R.S.C., Montreal, Que.; and J. B. Harkin, Esq., Commissioner of National Parks, Ottawa, Ont.; to be re-appointed members of the Historic Sites and Monuments Board of Canada: Brig.-Gen. E. A. Cruickshank to be Chairman and O. Wilford Bryan, Esq., Ottawa, to be Secretary to the Board. Mar. 22, Thomas Magladery, Esq., Ottawa, Ont., Director of Soldier Settlement; to be Deputy Minister of Immigration and Colonization and Director of Soldier Settlement. Mar. 29, Hon. John Alexander Mathieson, Chief Justice of Prince Edward Island; to be administrator of the government of Prince Edward Island during the absence of the Honourable the Lieutenant-Governor. April 11, T. O. King, Esq., Raymond, Alta.; to be a Member of the Dominion Council of Health for a period of three years from April 1, 1934. May 3, Hon. J. D. Chaplin, M.P., St. Catharines, L. C. Raymond, Esq., K.C., Welland, and W. G. Wilson, Esq., Ridgeway, all of the Province of Ontario; to be members of the Buffalo and Fort Erie Public Bridge Authority. June 2, Dr. Frank Allen, Head of the Department of Physics, University of Manitoba, Winnipeg, Man.; Dr. F. M. G. Johnson, Dean of Science, McGill Univ., Montreal, Que.; Dr. O. Klotz, Head of the Department of Pathology and Bacteriology, Univ. of Toronto, Toronto, Ont.; Dr. R. W. Brock, Dean of the Faculty of Applied Science, Univ. of British Columbia, Vancouver, B.C.; and Tom Moore, Esq., Ottawa, President of the Trades and Labour Congress of Canada; to be members of the National Research Council for a period of three years expiring Mar. 31, 1937. June 19, Hon. John Henderson Lamont, Puisne Judge of the Supreme Court of Canada; to be Deputy Governor General. July 13, The Honourable the Secretary of State; to be the Minister to exercise any authority or perform any function required of a Minister



of the Crown under the provisions of the Dominion Franchise Act. July 26, Oliver Master, Esq., Ottawa, Chief, Economics Division, Dept. of Trade and Commerce; to be Secretary of the Commissioners appointed by P.C. 1588 to investigate and report if any further payments should be made in addition to those provided for in the Agreement with the Province of Alberta with respect to the administration and control of its natural resources. Aug. 6, Hon. Mr. Justice Fawcett Gowler Taylor, D.S.O., Judge of the King's Bench Division of the Province of Manitoba; to be Acting Chairman of the Canadian Pension Commission for one year from Aug. 6, 1934. Aug. 11, Dr. George Samuel Horace Barton, Deputy Minister of Agriculture; Dr. John Franklin Booth, Commissioner of Agricultural Economics; Clive Davidson, Esq., Dominion Bureau of Statistics; Albert Gosselin, Esq., Agricultural Economics Branch; and Dr. Albert Kenneth Eaton, Department of Finance; to constitute the initial Dominion Marketing Board, Dr. Barton to be Chairman. Oct. 18, James Burns Spencer, Esq., Ottawa, Ont.; to be a member of the Federal District Commission, *vice* W. T. Macoun, deceased. Nov. 19, Jacques Narcisse Cartier, Esq., Montreal, Que.; to be a Member and the Vice-Chairman of the Canadian Radio Broadcasting Commission, *vice* Thomas Maher, resigned.

**1935.**—Jan. 14, Hon. Horace Harvey, Edmonton, Chief Justice of the Province of Alberta; to be Administrator of the Government of the said Province during the absence of His Honour the Lieutenant-Governor from Feb. 20, 1935 to Apr. 20, 1935, both dates inclusive. Jan. 25, William Christie, Esq., Prince Albert, Sask., Dominion Land Surveyor; to be Special Examiner under Section 12 of the Dominion Lands Surveys Act. Jan. 31, Archibald Leitch, Esq., Guelph, Ont.; to be Chairman of the Dominion Marketing Board, *vice* Dr. G. S. H. Barton, resigned (effective Feb. 15, 1935). Feb. 9, Leo Paul Saint-Amour, Montreal; to be Assistant Deputy Governor of the Bank of Canada, for a period of seven years effective from Feb. 18, 1935. Feb. 11, Hon. Horace Harvey, Chief Justice of the Province of Alberta, appointed Administrator of the Government of the Province of Alberta from Feb. 20 to Apr. 20, 1935; to continue as administrator until May 1, 1935, during the absence of His Honour the Lieutenant-Governor. Mar. 26, Frederick C. Bell, C.M.G., M.D., Antoine Chassé, M.C., Charles Douglas Crowe, M.C., and Seymour G. MacKenzie, M.D.; to be Members of the Canadian Pension Commission. April 12, Patrick M. Draper, Esq., Ottawa, Ont.; to be a Member of the Dominion Council of Health, *vice* F. McKenna, Montreal, deceased. April 30, Dr. Edgar Spinney Archibald and Dr. Edward Stanley Hopkins, both of the Department of Agriculture, Ottawa; James R. Girvin, Mendora, Man.; Olaf Nylund, Shaunavon, Sask., and Leonard Koole, of Monarch, Alta., Grain Growing Farmers; P. Chester Colquhoun, Maple Creek, Sask., Live-Stock Farmer; Reuben P. Gilchrist, of Wild Horse, Alta., Range Farmer; Frederick James Freer, Winnipeg, Man., Mortgage Companies of Canada; Brenton Pascoe Alley, Toronto, Ont., Canadian Bankers' Association; Dr. William John Black, Montreal, Que., Canadian National Railways; Edgar Ward Jones, Calgary, Alta., Canadian Pacific Railway Company; Joseph Henry Ellis, Winnipeg, Man., Government of Manitoba; Oliver Stanley Longman, of Edmonton, Government of Alberta; Alexander Malcolm Shaw, of Saskatoon, Sask., Government of Saskatchewan; to be the Prairie Farm Rehabilitation Advisory Committee, pursuant to Section 3 of the Prairie Farm Rehabilitation Act, with Dr. E. S. Archibald as Chairman.

**Judicial Appointments, 1933.**—July 21, Sergeant-Major Thomas Charles Davies, of the Royal Canadian Mounted Police, White Horse, Yukon Territory; to be a Justice of the Peace in and for the Yukon Territory with the powers and



authorities of two Justices of the Peace under any ordinance in force in said Territory. July 29, Hon. Robert Alfred Ernest Greenshields, Montreal, Judge of the Superior Court of the Province of Quebec; to be Chief Justice of the said Superior Court. Hon. Albert Sévigny, of the City of Quebec, a Puisne Judge of the Superior Court of the Province of Quebec; to perform the duties of Chief Justice in the District of Quebec as it is constituted for the Court of King's Bench Sitting in Appeal. J. Alfred Prévost, K.C., of the City of Quebec; to be a Puisne Judge of the Superior Court of the Province of Quebec. Aug. 11, Charles James Lennox, Esq., of the City of North Vancouver, B.C., barrister-at-law; to be a Judge of the County Court for Vancouver in the said Province, and a Local Judge of the Supreme Court of British Columbia. Aug. 29, Louis Joseph Arthur Brossard, K.C., of the City of Montreal; to be a Puisne Judge of the Superior Court in and for the Province of Quebec. Sept. 6, Harold B. Robertson, Esq., K.C., of Vancouver, B.C.; to be a Puisne Judge of the Supreme Court of British Columbia. William Garland McQuarrie, Esq., K.C., of New Westminster, B.C.; to be a Puisne Judge of the Court of Appeal for British Columbia. Sept. 7, John Murton Hanbidge, Esq., K.C., Kerrobert, Sask.; to be Judge of the District Court for the District of Humboldt, Sask. Edward Sexton Wilson, Esq., K.C., of Humboldt, in the Province of Saskatchewan; to be Judge of the District Court for the District of Weyburn in the said Province. Sept. 11, John Andrew Hope, Esq., K.C., Perth, Ont.; to be a Judge of the High Court of Justice for Ontario. Sept. 18, Norman Scarth MacDonnell, Esq., K.C., Toronto, Ont.; to be a Justice of the Court of Appeal for Ontario and *ex officio* a Judge of the High Court of Justice for Ontario. Sept. 18, His Honour James Parker, Sixth Junior Judge of the County Court of the County of York in the Province of Ontario; to be the Judge of the said County Court. Ian McLean MacDonell, Esq., K.C., of Toronto, Ont.; to be Sixth Junior Judge of the County Court of the County of York, Province of Ontario. Sept. 21, John Arthurs McGibbon, Esq., K.C., Oshawa, Ont.; to be Judge of the County Court of the Counties of Victoria and Haliburton, in the Province of Ontario, and a Local Judge of the High Court of Justice for Ontario. Oct. 19, John Doull, Esq., K.C., New Glasgow, N.S.; to be a Puisne Judge of the Supreme Court of Nova Scotia. Robert Harper Murray, Esq., K.C., Dartmouth, N.S.; to be Judge of the County Court of District Number 1, comprising the County of Halifax, N.S. Dr. Clermont Bourget, Indian Agent at Fort Resolution, Northwest Territories; to be a Justice of the Peace in and for the Northwest Territories with the powers and authorities of two Justices of the Peace under any law or ordinance in force in the said Territories. Nov. 30, George Franklin McFarland, Esq., K.C., Toronto, Ont.; to be a Judge of the High Court of Justice for Ontario. Dec. 12, Daniel Richards Byers, Esq., Fort William, Ont., barrister-at-law; to be Judge of the District Court of the Provisional District of Rainy River and to be a Local Judge of the High Court of Justice for Ontario. Dec. 30, Romeo Langlais, Esq., K.C., Quebec, Que.; to be a Puisne Judge of the Superior Court in and for the Province of Quebec. 1934.—Feb. 3, Bryson C. Donnan, Esq., Belleville, Ont., barrister-at-law and County Crown Attorney; to be Deputy Judge of the County Court of Hastings, Ontario. Feb. 15, John Alexander McEvoy, Esq., K.C., Toronto, Ont.; to be a Judge of the High Court of Justice for Ontario. Feb. 24, Cecil Gordon MacKinnon, Esq., K.C., Montreal, Que.; to be a Puisne Judge of the Superior Court in and for the Province of Quebec. Alfred Forest, Esq., K.C., Montreal, Que.; to be a Puisne Judge of the Superior Court in and for the Province of Quebec. Joseph Alexander Guilbault, Esq., K.C., Joliette, Que.; to be a Puisne Judge of the Superior Court

in and for the Province of Quebec. Mar. 28, Thomas Herbert Barton, Esq., K.C., Toronto, Ont.; to be Third Junior Judge of the County Court of the County of York, Province of Ontario, and a local Judge of the High Court of Justice for the said Province. Mar. 29, James Cardwell Makins, Esq., K.C., Stratford, Ont.; to be a Judge of the High Court of Justice for Ontario. Francis Loudon Smiley, Esq., Haileybury, Ont.; to be Junior Judge of the County Court of the County of Carleton, Province of Ontario, and a local Judge of the High Court of Justice for the said Province. Joseph Duncan Matheson, Esq., K.C., Macleod, Alta.; to be Judge of the District Court of the District of Peace River, Province of Alberta, and a local Judge of the Supreme Court of Alberta. His Honour Judge Lucien Dubuc, late Judge of the District Court of the District of Peace River, Province of Alberta; to be Judge of the District Court for the District of Edmonton in the said Province, *vice* His Honour Judge Taylor, deceased. April 11, Albert Edwin Honeywell, Esq., K.C., Ottawa, Ont.; to be Fourth Junior Judge of the County Court of the County of York in the said Province, and to be a local Judge of the High Court of Justice for Ontario. Frank Worthington Wilson, Esq., K.C., Windsor, Ont.; to be Judge of the County Court of the County of Lanark in the said Province, and to be a local Judge of the High Court of Justice for Ontario, (effective May 1, 1934). April 12, Jean Baptiste Dominique Bumbray, Esq., Outremont, Que., advocate; to be a Judge of the Circuit Court of the District of Montreal, in the said Province, effective April 16, 1934. Alexandre Chase Casgrain, Esq., K.C., Montreal, Que.; to be a Puisne Judge of the Superior Court in and for the Province of Quebec. June 25, Acting-Sergeant Dennis Withers, Non-Commissioned Officer of the Royal Canadian Mounted Police; to be a Justice of the Peace in and for the Yukon Territory, with the powers and authorities of two Justices of the Peace under any law or ordinance in force in the said Territory. Aug. 16, William Thomas Henderson, Esq., K.C., of the City of Brantford, Ontario; to be a Judge of the High Court of Justice for the Province of Ontario. Thomas Francis Battle, Esq., K.C., of the City of Toronto, Province of Ontario; to be Judge of the District Court of the Provisional Judicial District of Nipissing in the said Province. Sept. 1, Gregor Barclay, Esq., K.C., Montreal, Que.; to be a Puisne Judge of the Court of King's Bench in and for the Province of Quebec. Sheldon Lapierre Smoke, Esq., Paris, Ont., barrister; to be Judge of the County Court for the County of Peterborough in the said Province. William Angus Livingstone, Esq., K.C., Annapolis Royal, N.S.; to be Judge of the County Court of District No. 3, comprising the Counties of Annapolis, Digby and Yarmouth in the said Province. Sept. 14, Hon. Jean Baptiste Archambault, Judge of the Circuit Court of the District of Montreal, Que.; to be Senior Judge of the said Court. Joseph Georges Magnan, Esq., Advocate of the City of Montreal, Que.; to be a Judge of the Circuit Court of the District of Montreal. Oct. 25, Neil Ronald McArthur, Esq., K.C., Glace Bay, N.S.; to be Judge of the County Court of District No. 7, comprising the counties of Cape Breton, Victoria and Richmond in the said Province. Dec. 3, Frederick George Tanner Lucas, Esq., K.C., Vancouver, B.C.; to be a Puisne Justice of the Supreme Court of British Columbia. Dec. 19, William F. Lane, Esq., Moncton, barrister-at-law and Police Magistrate; to be Judge of the Juvenile Court in and for the City of Moncton, *vice* R. Dwight Mitton, retired. 1935.—Jan. 31, Hon. Henry Hague Davis, Toronto, Ont., Justice of the Court of Appeal for Ontario; to be a Puisne Judge of the Supreme Court of Canada. Hon. John Babington MacAulay Baxter, Saint John, N.B., a Puisne Judge of the Appeal Division of the Supreme Court of New Brunswick; to be Chief Justice of the Supreme Court of New Brunswick, Appeal Division, and a

Judge of the Chancery Division of the said Court, with the title Chief Justice of New Brunswick.

**Commissioners, 1933.**—June 28, Guy Guilbault, Esq., Barrister, Joliette, Que.; to be a Commissioner to investigate such charges of political partizanship against employees of the Dominion Government in the Province of Quebec as may be referred to him. July 8, Harry A. Scott, Esq., Canadian Trade Commissioner at Buenos Aires, Argentina; to be a Commissioner to administer such oaths, and take and receive such affidavits, declarations and affirmations concerning any proceedings had, or to be had, in the Supreme and Exchequer Courts of Canada as may be competent for His Excellency in Council to authorize in Argentina. July 21, Capt. John Arsenault, of Ross Ferry, Capt. John Arsenault, of Alder Point, and Capt. Walter Shea, of Alder Point, in the Province of Nova Scotia; to be Pilot Commissioners for the Pilotage District of Bras d'Or, Nova Scotia; Capt. John Arsenault, of Ross Ferry, to be Chairman. July 31, Rt. Hon. Lord Macmillan, P.C., K.C., and Sir Charles Stewart Addis, K.C.M.G., of London, England; Rt. Hon. Sir William Thomas White, P.C., K.C.M.G., Toronto, Ontario; Hon. John Edward Brownlee, K.C., M.L.A., Edmonton, Alberta; and Beaudry Leman, Esq., B.Sc., C.E., Montreal, Que.; to be Commissioners under Part I of the Inquiries Act for the purposes of investigating the banking system in Canada with special reference to the Bank Act, the Dominion Notes Act, the Finance Act and the Currency Act, and the advisability of establishing a Central Banking Institution; Lord Macmillan to be Chairman of the said Commission. Oct. 14, Arthur Stuart Bleakney, Esq., Canadian Trade Commissioner at Rio de Janeiro, Brazil; to be a Commissioner to administer oaths and take and receive affidavits, declarations and affirmations concerning proceedings in the Supreme and Exchequer Courts of Canada and any other such oaths, etc., as may be competent for His Excellency the Governor General in Council to authorize in Brazil. Nov. 6, Frank Patterson, Esq., K.C., Truro, N.S.; to be a Commissioner to investigate charges of political partizanship against employees of the Dominion Government in the Province of Nova Scotia. Nov. 24, Joseph Linton Hetherington, Esq., Halifax, N.S.; to be Chairman of the Halifax Harbour Commission, *vice* Col. Earle Caleb Phinney, resigned. Obed. P. Goucher, Esq., Middleton, N.S.; to be a Member of the Halifax, Harbour Commission. Nov. 30, Frederick Alexander Warner, Esq., Halifax, N.S., Assistant Post Master; to be a Commissioner to administer the oath of allegiance and of office to employees entering the Halifax Post Office. Dec. 29, George Roy Stevens, Esq., Canadian Trade Commissioner at the City of Melbourne, Australia; to be a Commissioner to administer oaths and take and receive affidavits, declarations and affirmations in Australia in or concerning any proceedings in the Supreme and Exchequer Courts of Canada and to administer such other oaths, etc., as by law it is competent for His Excellency in Council to authorize in Australia. Hon. Andrew K. Dysart, Judge of the Court of King's Bench, Man.; Hon. Henry V. Bigelow, Judge of the Court of King's Bench, Sask., and George C. McDonald, Esq., of the City of Montreal in the Province of Quebec, Chartered Accountant; to be Commissioners to inquire and report as to whether the Province of Saskatchewan should receive consideration, and to what amount, in addition to the sums provided in the agreement transferring the natural resources to the Province and scheduled to Saskatchewan Natural Resources Act, Chapter 41 of the Statutes of Canada, 1930; Hon. Andrew K. Dysart to be Chairman and Oliver Master, Chief, Economics Division, Dept. of Trade and Commerce, to be Secretary of the Com-



missioners. 1934.—May 22, Hon. William Ferdinand Alphonse Turgeon, Hon. Philip Edward Mackenzie and Hon. William Melville Martin, Puisne Judges of the Court of Appeal for Saskatchewan; and Hon. Hector Y. MacDonald, Hon. Henry Veedes Bigelow, Hon. John Fletcher Leopold Embury, Hon. George Edward Taylor, Hon. Donald MacLean and Hon. William E. Knowles, Puisne Judges of the Court of King's Bench; to be Commissioners *per dedimus potestatem* to administer the oath of allegiance and all other oaths as may be prescribed to all person or persons who now hold or holds or shall hereafter hold any office or place of trust or profit within the said Province of Saskatchewan. July 6, Hon. Louis Arthur Audette, retired Judge of the Exchequer Court of Canada; to be a Commissioner to investigate and report if there be justiciable grounds for certain claims made on behalf of the estate of the late John Ross for advances made as banker to contractors on Sections 3, 6, 9 and 15 of the Intercolonial Railway. July 7, Right Hon. Sir Lyman Poore Duff, G.C.M.G., Chief Justice of Canada; to be a Commissioner under Part I of the Inquiries Act, Chapter 99, Revised Statutes of Canada, 1927, to inquire into allegations affecting the conduct of Right Hon. Arthur Meighen with reference to matters relating to the said Right Hon. Arthur Meighen as Commissioner of the Hydro-Electric Power Commission of the Province of Ontario. Hon. H. H. Stevens, M.P., Thomas Bell, M.P., James Ilsley, M.P., Jean Louis Baribeau, M.P., Oscar L. Boulanger, M.P., Alexander McKay Edwards, M.P., Samuel Factor, M.P., Donald MacBeth Kennedy, M.P., (Peace River), William Walker Kennedy, M.P., (Winnipeg South Centre), Mark Senn, M.P., and Edward James Young, M.P.; to be Commissioners under Part I of the Inquiries Act, Revised Statutes of Canada, 1927, Chapter 99, to continue, complete and report on the inquiry instituted by them as a select special committee of the House of Commons in respect of chain stores, agricultural implements, fish, flour mills and bakeries and canning of fruit and vegetables: the said Commissioners to hold office without salary, fees, wages, allowances, emolument or other profits of any kind attached thereto under the provisions of the Senate and House of Commons Act; Hon. H. H. Stevens to be Chairman. July 19, Hon. Andrew K. Dysart, Judge of the Court of King's Bench, Manitoba; Hon. Thomas Mitchell Tweedie, Judge of the Supreme Court of Alberta; and George C. MacDonald, Esq., of the City of Montreal, Que., chartered accountant; to be Commissioners to inquire into and report if any further grant is required in addition to the sums mentioned in paragraph 20 of the Agreement made in 1905, between the Government of the Province of Alberta, and the Government of the Dominion of Canada, to place the said Province in a position of equality with the other provinces of Confederation with respect to the administration and control of its natural resources; Hon. Andrew K. Dysart to be Chairman. H. A. MacNeill, Esq., Barrister, of the City of Kingston; to be a Commissioner pursuant to Part I of the Inquiries Act, to investigate such charges of political partisanship against employees of the Dominion Government in the Province of Ontario as may be referred to him. Sept. 12, Frederick Thomas Krerouse, Esq., Solicitor, Melbourne, Australia; to be a Commissioner to take and receive affidavits, declarations and affirmations in Australia concerning proceedings in the Supreme and Exchequer Courts of Canada and take such other oaths, etc., as may be competent for His Excellency in Council to authorize in Australia. Sept. 14, Right Hon. Sir Thomas White, P.C., K.C.M.G., Toronto, Ont.; Hon. John Alexander Mathieson, of Charlottetown, Chief Justice of the Supreme Court of Prince Edward Island, and Edward Walter Nesbitt, Esq., Woodstock, Ont.; to be a Royal Commission to take into consideration and deal with the recommendation of the Duncan Commission,



1926, that there be a revision of the financial arrangements between the Dominion Government and the Governments of the Maritime Provinces, the said Commission to have the special authority specified under Part III of the Inquiries Act; Sir Thomas White to be Chairman. Oct. 29, William Walker Kennedy, Esq., K.C., M.P., Winnipeg; to be Chairman of the Commission constituted by Order in Council P.C. 1461, 7th July, 1934, to continue the inquiry into the spread of prices, etc., *vice* Hon. H. H. Stevens, resigned. Nov. 8, J. E. Read, Esq., K.C., legal adviser to the Department of External Affairs, and R. B. Viets, Esq., Solicitor to the Treasury, Dept. of Finance; to be Commissioners under Section 6, Part II, of the Inquiries Act, to investigate certain cases of alleged overpayments contrary to the Militia Pension Act. Dec. 8, His Honour Judge J. J. Coughlin, Windsor, Ont.; to be a Commissioner on behalf of the Government of the Province of Ontario to inquire into all municipal, school, public utilities and other local affairs affecting or relating to the Cities of Windsor and East Windsor and the Towns of Walkerville and Sandwich. Ernest L. McColl, Esq., Canadian Trade Commissioner at Havana, Cuba; to be a Commissioner to take and receive affidavits, declarations and affirmations in Cuba concerning any proceedings in the Supreme and Exchequer Courts of Canada, and such other oaths, etc., as may be competent for the Governor General in Council to authorize in Cuba. Dec. 14, J. E. Ganong, Esq., Toronto, Ont.; to be re-appointed a Member of the Toronto Harbour Commission for a further period of three years. 1935.—Jan. 30, Hon. John Babington MacAulay Baxter and Hon. Ward Chipman Hazen Grimmer, Puisne Judges of the Appeal Division of the Supreme Court of New Brunswick; to administer the oath of allegiance and such other oaths as may be required, to any person or persons who now hold or may hereafter hold positions of trust or profit in the public service in the said Province. Jan. 31, J. C. Richter, Esq., Hamilton, Ont.; to be a Commissioner to administer oaths of allegiance and of office to employees entering the Hamilton Post Office. Feb. 9, Messrs. W. F. Napier, W. S. Richards, W. H. Miller and J. Frank Champous, all of Campbellton, N.B., and E. A. Rockett, of Dalhousie, N.B.; to be Pilotage Commissioners for the Pilotage District of Restigouche River, replacing all present Pilotage Commissioners for the Pilotage Districts of Bonaventure, Que., and Restigouche, these districts having been merged in the newly created district of Restigouche River. A. F. Carr, Esq., Campbellton, N.B.; to be Secretary and Treasurer of the newly created Pilotage District of Restigouche River, *vice* present Secretaries and Treasurers of the Pilotage Districts of Bonaventure, Que., and Restigouche, retired. Feb. 19, L. M. Cosgrave, Esq., Canadian Trade Commissioner at Melbourne, Australia; to be a Commissioner to administer oaths and take and receive affidavits, declarations and affirmations in Australia concerning matters affecting proceedings in the Supreme and the Exchequer Courts of Canada and to administer such other oaths, etc., as may be competent for the Governor General in Council to authorize in Australia. Mar. 22, His Honour Judge James Parker, Senior Judge of the County Court of York in the Province of Ontario; to be a Commissioner under Part I of the Inquiries Act, pursuant to the provisions of Section 10 of the Copyright Amendment Act, to investigate and report whether the Canadian Performing Right Society Limited, or any other society, association or company, unduly withholds the issue or grant of licences for or in respect of the performance of dramatic-musical or musical works in Canada; also to investigate and report as to whether fees, royalties, etc., are excessive and whether any such company conducts its operations in Canada detrimental to the interests of the public. Mar. 25, Hon. John B. M. Baxter, Chief Justice of the

Province of New Brunswick; to be a Commissioner under Part I of the Inquiries Act, to inquire into and report upon certain allegations made by Hon. Peter Veniot, Member of the House of Commons for Gloucester, N. B., as to the administration of the patrol system under the Royal Canadian Mounted Police, in the waters of Baie des Chaleurs in the said Province. April 18, Maurice Arram, Esq., London, Eng., Solicitor; to be a Commissioner to administer oaths, take and receive affidavits, declarations and affirmations in England concerning any proceedings in the Supreme and Exchequer Courts of Canada and any such other oaths, etc., as may be competent for the Governor General in Council to authorize in England. May 3, His Honour Judge E. J. Daly, of the County Court for the County of Carleton, Ontario; to be a Commissioner, under Part I of the Inquiries Act, to investigate certain allegations made in the House of Commons by Miss Agnes Macphail, M.P., in reference to derogatory remarks alleged to have been made by Inspector Dawson of the Penitentiary Branch.

**Imperial Honours and Decorations—Jan., 1934 to Jan., 1935.**—*Knight Grand Cross of the Most Distinguished Order of St. Michael and St. George (G.C.M.G.)*: Jan. 1, 1934, Rt. Hon. Lyman P. Duff, Ottawa, Ont.

*Knight Commander of the Most Distinguished Order of St. Michael and St. George (K.C.M.G.)*: Jan. 1, 1935, Col. Albert Edward Gooderham, Toronto, Ont. (Deceased).

*Knight Commander of the Most Excellent Order of the British Empire, Civil Division (K.B.E.)*: June 4, 1934, Dr. Frederick Grant Banting, Toronto, Ont.; Jan. 1, 1935, Charles William Lindsay, Montreal, Que.

*Knight Bachelor (Kt.)*: Jan. 1, 1934, Joseph Tellier, Quebec, Que.; June 4, 1934, Charles Edward Saunders; Jan. 1, 1935, Hon. Joseph A. Chisholm, Halifax, N.S.

*Commander of the Most Honourable Order of the Bath (C.B.)*, *Military*: Jan. 1, 1935, Maj.-Gen. A. G. L. McNaughton, Ottawa, Ont.

*Companion of the Most Distinguished Order of St. Michael and St. George (C.M.G.)*: Jan. 1, 1934, Arthur Beauchesne, Ottawa, Ont.; R. W. Breadner, Ottawa, Ont.; Thomas Mulvey, Ottawa, Ont.; H. H. Rowatt, Ottawa, Ont. June 4, 1934, Alexander Johnston, Ottawa, Ont.; Ernest Joseph Lemaire, Ottawa, Ont.; Dr. William James Roche, Ottawa, Ont.; Dr. Duncan Campbell Scott, Ottawa, Ont. Jan. 1, 1935, Dr. John C. Webster, Shediac, N.B.; Henry Wise Wood, Carstairs, Alta.

*Commander of the Order of the British Empire (C.B.E.)* *Military*: Jan. 1, 1935, Brig. W. H. P. Elkins, Kingston, Ont. *Civil*: Jan. 1, 1934, Dr. Helen MacMurchy, Toronto, Ont.; Miss E. C. Rayside, Hamilton, Ont.; Miss E. L. Smellie, Ottawa, Ont.; Miss Charlotte Whifton, Ottawa, Ont.; Mrs. Laura Wood, N.B.; Miss Laura Holland, Vancouver, B.C. June 4, 1934, Miss Margaret Eleanor Theodora Addison, Toronto, Ont.; Mrs. Mary Elizabeth Waagen Allan, Calgary, Alta.; Miss Winifred Kydd, Montreal, Que.; Rev. Mother Marie Anna Piché, Montreal, Que.; Miss Margaret Marshall Saunders, Toronto, Ont. Jan. 1, 1935, Henry Black, Regina, Sask.; Joseph E. Grégoire, Quebec, Que.; Camillien Houde, Montreal, Que.; William J. Stewart, Toronto, Ont.; John S. Plaskett, Victoria, B.C.

*Officer of the Order of the British Empire (O.B.E.)* *Military*: Jan. 1, 1935, Squadron Leader Roy S. Granby, Trenton, Ont. *Civil*: Jan. 1, 1934, Madame Beaubien, Montreal, Que.; Mrs. G. E. Campbell, Windsor, Ont.; Miss Gertrude Childs, Winnipeg, Man.; Miss J. M. Colby, Stanstead, Que.; Miss M. D. Fowler, Swan River, Man.; Mrs. A. J. Freiman, Ottawa, Ont.; Madame Hamilton, Montreal, Que.; Mrs. McNaughton, Saskatoon, Sask.; Miss Ruby Simpson, Regina, Sask.; Miss

Josephine Strothard, Truro, N.S.; Madame Tessier, Quebec, Que. June 4, 1934, Edwin Lester Brittain, Ottawa, Ont. Jan. 1, 1935, Edwin A. Baker, Toronto, Ont.; William Caven, Montreal, Que.; Clennell H. Dickins, Edmonton, Alta.; Dr. Edna M. Guest, Toronto, Ont.; Jean Isabel Gunn, Toronto, Ont.; Mabel F. Hersey, Montreal, Que.; Rev. S. E. Lambert, Toronto, Ont.; Wilfred R. May, Edmonton, Alta.; Daniel McIntyre, Winnipeg, Man.; F. L. C. Pereira, Ottawa, Ont.; Georges H. Robiehon, Three Rivers, Que.; John T. Ross, Winnipeg, Man.; James W. Somers, Toronto, Ont.; Jennie Webster, Winnipeg, Man.

*Member of the Order of the British Empire (M.B.E.) Military:* Jan. 1, 1935, R. S. M. Wenceslas Bilodeau, Quebec, Que. *Civil:* Jan. 1, 1934, John Guy, Ottawa, Ont.; Mrs. Craven, New Liskeard, Ont.; Mrs. Darrach, Brandon, Man.; Miss R. M. Davies, Prince Rupert, B.C.; Miss Nancy Dunn, Sunset Prairie, B.C.; Miss Amy Earl, Charlottetown, P.E.I.; Miss Hannah Eastabrook, Saint John, N.B.; Mrs. Hedley, Moose Jaw, Sask.; Mrs. Parsons, Port Credit, Ont.; Miss Elizabeth Pearston, Grand Prairie, Alta.; Mrs. Phillips, Prince Albert, Sask.; Mrs. Ross, Riley Brook, N.B.; Miss Bertha Smith, London, Ont.; Miss Annie Tilley, Lethbridge, Alta.; Miss M. E. Lawson, Victoria, B.C.; Mrs. Coghlan, Montreal, Que. Jan. 1, 1935, Serg.-Maj. Frederick Anderton, Ottawa, Ont.; Robert Atkinson, Sydney, N.S.; Louis Bourassa, Peace River, Alta.; Thomas T. Bower, Winnipeg, Man.; James R. Bowler, Ottawa, Ont.; Charles Davis, Gaspé, Que.; Sarah Feeney, Montreal, Que.; Dr. A. J. Hunter, Toulon, Man.; Frances H. E. Hasell, Grande Prairie, Alta.; Samuel Kennedy, Charlottetown, P.E.I.; George C. King, Calgary, Alta.; William A. McKnight, Winnipeg, Man.; Helen M. O'Donahoe, Ottawa, Ont.; Amedée Robitaille, Wako, Ont.; Sveinn Thorvaldson, Riverton, Man.; Alice E. Wilson, Ottawa, Ont.

**Imperial Honours and Decorations of June 3, 1935.\*—***Knight Grand Cross of the Most Distinguished Order of St. Michael and St. George (G.C.M.G.):* Rt. Hon. Sir William Thomas White, K.C.M.G., Toronto.

*Knight Grand Cross of the Most Excellent Order of the British Empire (G.B.E.):* Edward Wentworth Beatty, Montreal.

*Knight Commander of the Most Honourable Order of the Bath (K.C.B.), Military:* Major-General James Howden MacBrien, Ottawa.

*Knight Commander of the Most Distinguished Order of St. Michael and St. George (K.C.M.G.):* Hon. Herbert Meredith Marler, Tokio, Canadian Minister to Japan.

*Knight Commander of the Most Excellent Order of the British Empire (K.B.E.):* Arthur George Doughty, Ottawa, and John Cunningham McLennan, Toronto.

*Knight Bachelor (Kt.):* Senator Joseph Amable Thomas Chapais, Quebec; Edmund Wylly Grier, Toronto; Ernest Campbell MacMillan, Toronto; Charles George Douglas Roberts, Toronto.

*Companion of the Most Honourable Order of the Bath (C.B.), Military:* Major-General Ernest Charles Ashton, Esquimalt, B.C.

*Companion of the Most Distinguished Order of St. Michael and St. George (C.M.G.):* George Samuel Horace Barton, Ottawa; Charles Camsell, Ottawa; William Clifford Clark, Ottawa; Cyrille Fraser Delage, Quebec; William Stuart Edwards, Ottawa; Rev. Charles William Gordon (Ralph Connor), Winnipeg; Hon. George Herbert Sedgewick, Ottawa; Harry Stevenson Southam, Ottawa; James Hossack Woods, Calgary; Simon James McLean, Ottawa.

*Commander of the Order of the British Empire (C.B.E.), Civil:* Edward Johnson, New York; Merchant Mahoney, Washington; William Ezra Matthews, Ottawa;

\*Taken from the published list at the time of going to press.



Robert Edward McKechnie, Vancouver; Dr. Helen Richmond Young Reid, Montreal; Mrs. Sarah Trumbull Warren, Toronto; Frank Thomas Shutt, Ottawa; William Lash Miller, Toronto; Col. Henry Campbell Osborne, Ottawa. *Military*: Lieut.-Col. Henry Willis O'Connor, Ottawa.

*Officer of the Order of the British Empire (O.B.E.), Civil*: Miss Mary Ellen Birtles, Alexander, Man.; Miss Mary Vivienne Burnham, Ottawa; Mrs. Minnie Julia Beatrice Campbell, Winnipeg; John Honeyford Campbell, Ottawa; Albert Chevalier, Montreal; Miss Rebecca Mary Church, Toronto; Dr. Allan Roy Dafoe, Callander, Ont.; Frederick William Davey, Victoria; David Merritt Duncan, Victoria; Alfred Fitzpatrick, Toronto; Charles Sanderson Fosbery, Montreal; L'Abbe Victorin Germain, Quebec; John Eckford Gow, Kingston; Edwin Austin Hardy, Toronto; Miss Sarah Emily Maxwell, Ottawa; Mrs. Lucy Maude Montgomery MacDonald, Leaskdale, Ont.; George Albert McKee, Edmonton; Lester Bowles Pearson, Ottawa; Miss Mary Pinkham, Calgary; Arthur Melville Scott, Calgary; John Alexander Stiles, Ottawa; Mrs. Jessie Mabel Stewart, Perth, Ont.; Mrs. Ella Westley Thorburn, Ottawa. *Military*: Commander Ronald Ian Agnew, Halifax; Squadron Leader George Eric Brookes, Camp Borden, Ont.; Major Edson Louis Millard Burns, Ottawa.

*Companion of the Imperial Service Order (I.S.O.)*: George Clayton Anderson, Ottawa; Joseph Oscar Patenaude, Ottawa; Col. Herbert Victor Rorke, Ottawa; Donald Henry Ross, Melbourne, Australia; David John Scott, Winnipeg; Harrison Watson, Catsfield Place, near Battle, Sussex, Eng.

*Member of the Order of the British Empire (M.B.E.), Civil*: Albert Martin Belding, Saint John, N.B.; Edward Percy Brown, Wolfville, N.S.; Ray Brown, Ottawa; Mrs. Agnes Condie, Condie, Sask.; William Johnstone Cook, Grand Forks, B.C.; Mrs. Mary Tupper Chapman, Vernon, B.C.; Mrs. Annie Charlotte Dalton, Vancouver; Miss Euphemia Luella Denton, Nipawin, Sask.; George Ferguson, Fort San, Sask.; Marcel Gabard, Ottawa; Harold Stacey Graham, Ottawa; George Thomas Hann, Ottawa; William Ide, Ottawa; Joseph Adelard Lavoie, Montreal; George Frederick Lewis, Toronto; Mrs. Margaret Alice Marshall, Edmonton; Mrs. Daisy Marshall, Edmonton; Mrs. Hannah Glen MacDonald, Saskatoon; Alexander McKay, Truro, N.S.; Thomas Henry Mansell, Ottawa; Michael Connolly MacCormac, Ottawa; Miss Jean Ethel MacLachlan, Regina; Mrs. Ethel Alberta McKillop, Calgary; Clement Peter Moore, Sydney, N.S.; Miss Kathleen O'Brien, Village Island, Alert Bay, B.C.; Mrs. Harriet Osborne, Dawson City, Y.T.; Mrs. May Paul, Prince Albert, Sask.; Mrs. Bessie Waldon MacLean Reynolds, Toronto; Mrs. Jane Rose, Vancouver; Miss Elsie Saunders, Ottawa; George Simpson, Ottawa; Harry Slater, Lachute, Que.; John Stevens, Ottawa; Mrs. Lilian Carter Stephens, Portage la Prairie, Man.; Miss Mona Wilson, Charlottetown; Mrs. Hannah Zelda Woods, Fredericton, N.B.; George Washington Yates, Ottawa; Mrs. Elizabeth Jane Pendleton Crombie, Ottawa; Elijah Silverstone, Montreal. *Military*: First Class Master Gunner (W.O. I) Herbert Collings, Esquimalt, B.C.; Commissioned Victualling Officer John George Buckner Horne, Esquimalt, B.C.; Warrant Officer (Class I) Anthony Augustine Rabnett, Ottawa; Regimental Sergt.-Maj. (W.O. I) George Rolffe, Halifax; Regimental Sergt.-Maj. (W.O. I) John Wyatt, Kingston.

**Days of General Thanksgiving.**—Monday, Oct. 9, 1933 and Monday, Oct. 8, 1934, were appointed by proclamation as "days of general thanksgiving to Almighty God for the bountiful harvests and other blessings with which Canada has been favoured".



## APPENDIX I.

## 1.—Immigration in the fiscal year 1934-35.

During the fiscal year ended Mar. 31, 1935, the immigrants into Canada, classified as in the summary table appearing on p. 213 of this volume, were as follows: from U.K., 2,198; from U.S.A., 5,960; from other countries, 3,978; total, 12,136.

Canadians returned from the United States during the fiscal year ended Mar. 31, 1935, classified as in the table on p. 227, were as follows: Canadian-born, 5,811; British-born with Canadian domicile, 937; naturalized Canadian citizens, 870; total, 7,618.

## 2.—External Trade of Canada in the fiscal year 1934-35.

Preliminary figures of the external trade of Canada for the fiscal year ended Mar. 31, 1935, show a grand total trade of \$1,189,550,801, as compared with a figure of \$1,019,453,094 in the preceding year, or an increase of \$170,097,707. The increase in the imports was \$88,618,219. Domestic exports increased by \$80,131,849, and foreign exports by \$1,347,639. Figures by industrial groups are given in the following table, where the figures of imports and exports may be compared with the totals given for previous years in the tables on pp. 554. 562-563 of this volume

## Imports and Exports of Canada, fiscal year ended Mar. 31, 1935.

| Industrial Group.                             | Imports.             |
|-----------------------------------------------|----------------------|
|                                               | \$                   |
| Agricultural and vegetable products.....      | 109,418,595          |
| Animals and animal products.....              | 19,957,477           |
| Fibres, textiles and textile products.....    | 81,798,280           |
| Wood, wood products and paper.....            | 21,199,687           |
| Iron and its products.....                    | 100,056,145          |
| Non-ferrous metals and their products.....    | 28,496,629           |
| Non-metallic minerals and their products..... | 102,428,037          |
| Chemicals and allied products.....            | 28,872,053           |
| Miscellaneous commodities.....                | 30,189,941           |
| <b>Total Imports.....</b>                     | <b>522,416,844</b>   |
| Total, Dutiable Imports.....                  | 301,231,613          |
| Total, Free Imports.....                      | 221,185,231          |
| Duty Collected.....                           | 84,402,174           |
|                                               |                      |
| Industrial Group.                             | Exports.             |
|                                               | \$                   |
| Agricultural and vegetable products.....      | 226,233,097          |
| Animals and animal products.....              | 86,848,144           |
| Fibres, textiles and textile products.....    | 7,523,144            |
| Wood, wood products and paper.....            | 160,507,709          |
| Iron and its products.....                    | 40,736,038           |
| Non-ferrous metals and their products.....    | 94,619,455           |
| Non-metallic minerals and their products..... | 15,654,323           |
| Chemicals and allied products.....            | 15,270,064           |
| Miscellaneous commodities.....                | 12,083,020           |
| <b>Total, Domestic Exports.....</b>           | <b>659,474,994</b>   |
| Total, Foreign Exports.....                   | 7,658,963            |
| <b>Total Exports.....</b>                     | <b>667,133,957</b>   |
| <b>Grand Total, External Trade.....</b>       | <b>1,189,550,801</b> |

## APPENDIX II.

## Dairying Statistics.

The dairy industry is dealt with under the following headings: total milk production; butter and cheese; miscellaneous factory products; and finally, the total value of the dairy production of Canada. For the year 1934 preliminary estimates have been made which will be revised when annual returns are available.

**Total Milk Production.**—The data presented in Table 1 represent the quantities of dairy products expressed in terms of milk. The total milk production for 1934 is estimated at 16,295,952,700 lb., an increase of 247,227,800 lb. or 1.5 p.c. over the previous year. Creamery butter, dairy butter and miscellaneous products increased in quantity, while milk used for cheese making and for domestic and live-stock consumption declined.

**1.—Totals, Dairy Production of Canada Expressed in Pounds of Milk, 1925-34, and by Provinces, 1934.**

| Province.               | Total Milk Production. | Made into Butter. |               | Made into Cheese. |               | Miscellaneous Factory Products. <sup>1</sup> | Whole Milk Otherwise Used. |
|-------------------------|------------------------|-------------------|---------------|-------------------|---------------|----------------------------------------------|----------------------------|
|                         |                        | Dairy.            | Creamery.     | Home-made.        | Factory.      |                                              |                            |
|                         | lb.                    | lb.               | lb.           | lb.               | lb.           | lb.                                          | lb.                        |
| <b>Canada, 1925</b> ... | 14,386,104,000         | 2,380,000,000     | 4,023,980,000 | 5,597,000         | 1,859,961,000 | 262,043,000                                  | 5,844,523,000              |
| 1926...                 | 14,591,873,000         | 2,223,959,000     | 4,148,469,000 | 5,788,000         | 1,923,394,000 | 254,072,000                                  | 6,036,200,000              |
| 1927...                 | 14,825,821,000         | 2,223,959,000     | 4,143,077,000 | 4,653,000         | 1,546,237,000 | 287,417,000                                  | 6,620,487,000              |
| 1928...                 | 14,512,899,000         | 2,106,900,600     | 3,933,513,000 | 4,873,000         | 1,619,348,000 | 296,254,000                                  | 6,552,011,000              |
| 1929...                 | 14,349,023,000         | 2,060,080,000     | 3,998,667,000 | 5,490,000         | 1,329,959,000 | 307,725,000                                  | 6,647,102,000              |
| 1930...                 | 15,126,459,000         | 2,283,152,000     | 4,348,431,000 | 9,115,000         | 1,333,977,000 | 312,800,000                                  | 6,828,984,000              |
| 1931...                 | 15,772,852,000         | 2,418,488,000     | 5,289,612,000 | 10,095,000        | 1,276,315,000 | 252,532,000                                  | 6,525,810,000              |
| 1932...                 | 15,917,868,000         | 2,503,381,000     | 5,009,790,000 | 11,593,400        | 1,349,872,000 | 219,571,000                                  | 6,823,751,000              |
| 1933...                 | 16,048,724,900         | 2,492,799,000     | 5,132,233,800 | 10,565,400        | 1,244,840,700 | 243,716,000                                  | 6,924,570,000              |
| 1934...                 | 16,295,952,700         | 2,573,186,000     | 5,455,641,700 | 11,372,400        | 1,117,249,600 | 264,000,000                                  | 6,874,503,000              |
| P. E. Island.....       | 141,952,300            | 45,650,000        | 43,130,300    | 3,400             | 3,808,600     | 532,000                                      | 48,828,000                 |
| Nova Scotia.....        | 461,582,700            | 146,950,000       | 133,249,700   | 418,000           | -             | 16,828,000                                   | 167,137,000                |
| New Brunswick...        | 429,108,800            | 174,545,000       | 74,161,800    | 67,000            | 3,924,000     | 2,050,000                                    | 174,651,000                |
| Quebec.....             | 4,262,642,500          | 345,649,000       | 1,611,055,300 | 2,800,000         | 243,275,200   | 16,401,000                                   | 2,043,462,000              |
| Ontario.....            | 6,442,036,400          | 765,865,000       | 1,882,712,200 | 1,450,000         | 823,166,200   | 172,553,000                                  | 2,796,214,000              |
| Manitoba.....           | 1,046,875,200          | 216,308,000       | 483,981,800   | 1,885,000         | 12,662,400    | 5,702,000                                    | 326,336,000                |
| Saskatchewan.....       | 1,513,494,200          | 503,315,000       | 488,762,200   | 1,624,000         | 8,400,000     | 5,106,000                                    | 506,287,000                |
| Alberta.....            | 1,454,354,500          | 313,691,000       | 509,155,500   | 2,800,000         | 14,410,000    | 5,878,000                                    | 518,417,000                |
| British Columbia        | 540,576,100            | 61,210,000        | 139,432,900   | 319,000           | 7,603,200     | 38,840,000                                   | 293,171,000                |

<sup>1</sup>The data in this column for 1933 and 1934 include the ice cream made in specialized ice-cream plants and confectionery establishments.

**Butter and Cheese.**—The butter output of creameries in 1934 was 233,047,500 lb., a gain of 13,814,954 lb., or 6.3 p.c., over the previous year, and 7,092,254 lb., or 3.1 p.c., over the 1931 production, which was the largest amount previously recorded. Dairy butter increased 3,433,000 lb., or 3.2 p.c., to 109,918,000 lb. Butter reached its maximum exportation in the year ended June 30, 1933, when 34,128,944 lb. were exported. For the calendar year ended Dec. 31, 1934, the exports were 428,300 lb. and the imports were 2,875,562 lb. The apparent consumption of butter in 1934 is estimated at 335,029,401 lb., or 30.92 lb. per capita.

The quantity of factory cheese made in Canada during 1934 is estimated at 99,754,500 lb., a decrease of 11,391,993 lb. or 10·3 p.c. Cheese made on farms is estimated at 1,011,300 lb., an increase of 68,000 lb. The fact that greater quantities of milk were used for butter making and for the fluid milk trade in recent years has resulted in a significant reduction in cheese manufacturing. The decrease recorded between 1933 and 1934 was greater than that shown between 1932 and 1933, but the most outstanding decline occurred in 1927 and a lesser decline in 1929. In 1868 the quantity of cheese exported from Canada was 6,141,570 lb.; in 1904 it reached its maximum exportation of 233,980,716 lb. For the calendar year ended Dec. 31, 1934, the exports were 61,167,800 lb. The apparent consumption of cheese in 1934 was 39,410,147 lb. or 3·64 lb. per capita. It will be seen, therefore, that the domestic consumption represented only 39·1 p.c. of the total cheese production of the Dominion.

## 2.—Production of Butter and Cheese in Canada, 1925-34, and by Provinces, 1934.

| Province.                  | Dairy Butter. | Creamery Butter. | Total Butter. | Home-made Cheese. | Factory Cheese. | Total Cheese. |
|----------------------------|---------------|------------------|---------------|-------------------|-----------------|---------------|
|                            | lb.           | lb.              | lb.           | lb.               | lb.             | lb.           |
| Canada, 1925 .....         | 109,000,000   | 169,494,967      | 269,494,967   | 533,016           | 177,139,113     | 177,672,129   |
| 1926 .....                 | 95,000,000    | 177,209,287      | 272,209,287   | 516,745           | 171,731,631     | 172,248,376   |
| 1927 .....                 | 95,000,000    | 176,978,917      | 271,978,917   | 415,417           | 138,056,908     | 138,472,325   |
| 1928 .....                 | 90,000,000    | 168,027,039      | 258,027,039   | 435,059           | 141,584,619     | 145,019,678   |
| 1929 .....                 | 88,000,000    | 170,810,230      | 258,810,230   | 490,000           | 118,746,286     | 119,236,286   |
| 1930 .....                 | 97,529,000    | 185,751,061      | 283,280,061   | 813,000           | 119,105,203     | 119,918,203   |
| 1931 .....                 | 103,310,000   | 225,955,246      | 329,265,246   | 901,300           | 113,956,639     | 114,857,939   |
| 1932 .....                 | 106,936,403   | 214,002,127      | 320,938,527   | 1,027,100         | 120,321,243     | 121,551,343   |
| 1933 .....                 | 106,185,000   | 219,232,546      | 325,417,546   | 943,300           | 111,146,493     | 112,089,793   |
| 1934 .....                 | 109,918,000   | 233,047,500      | 342,965,500   | 1,011,300         | 99,754,500      | 100,765,800   |
| Prince Edward Island ..... | 1,950,000     | 1,812,400        | 3,762,400     | 300               | 340,000         | 340,300       |
| Nova Scotia .....          | 6,277,000     | 5,692,000        | 11,969,000    | 33,000            | —               | 33,000        |
| New Brunswick .....        | 7,456,000     | 3,168,000        | 10,624,000    | 6,000             | 350,400         | 356,400       |
| Quebec .....               | 14,765,000    | 68,819,100       | 83,584,100    | 250,000           | 21,721,000      | 21,971,000    |
| Ontario .....              | 32,715,000    | 80,423,400       | 113,138,400   | 130,000           | 73,497,000      | 73,627,000    |
| Manitoba .....             | 9,240,000     | 20,674,100       | 29,914,100    | 168,000           | 1,130,600       | 1,298,600     |
| Saskatchewan .....         | 21,500,000    | 20,578,100       | 42,378,100    | 145,000           | 750,000         | 895,000       |
| Alberta .....              | 13,400,000    | 25,594,000       | 38,994,000    | 250,000           | 1,286,600       | 1,536,600     |
| British Columbia .....     | 2,615,000     | 5,956,100        | 8,571,100     | 29,000            | 678,900         | 707,900       |

**Miscellaneous Factory Products.**—The production of condensed milk in Canada in 1934 is estimated at 8,916,000 lb. as compared with 9,899,331 lb. in the previous year. Evaporated milk increased from 53,420,684 lb. to 56,778,000 lb. The production of all concentrated whole-milk products amounted to 67,918,000 lb. in 1934 as compared with 64,608,304 lb. in 1933. The production of concentrated milk by-products amounted to 25,750,000 lb. in 1934, of which 16,576,000 lb. was skim-milk powder. In 1933 the production was 20,673,252 lb. Thus concentrated whole-milk products increased 5·1 p.c. and concentrated milk by-products increased 24·6 p.c. Ice cream made in factories in 1934 amounted to 4,444,000 gallons as compared with 4,066,209 gallons in 1933, an increase of 9·3 p.c.

## 3.—Quantities and Values of Miscellaneous Products of Dairy Factories, 1932-34.

| Product.                               | Quantities.            |                        |                        | Values.   |           |                    |
|----------------------------------------|------------------------|------------------------|------------------------|-----------|-----------|--------------------|
|                                        | 1932.                  | 1933.                  | 1934. <sup>1</sup>     | 1932.     | 1933.     | 1934. <sup>1</sup> |
| CONC. WHOLE-MILK PDTS.—                | lb.                    | lb.                    | lb.                    | \$        | \$        | \$                 |
| Condensed milk.....                    | 14,825,485             | 9,899,331              | 8,916,000              | 1,259,634 | 840,106   | 752,000            |
| Evaporated milk.....                   | 47,915,532             | 53,420,684             | 56,778,000             | 3,482,753 | 3,335,684 | 3,517,000          |
| Powdered milk.....                     | 789,018                | 1,178,755              | 2,111,000              | 95,114    | 135,008   | 241,000            |
| Cream powder.....                      | 26,206                 | 34,138                 | 38,000                 | 6,108     | 10,575    | 12,000             |
| Condensed coffee.....                  | 112,614                | 75,396                 | 75,000                 | 13,655    | 9,600     | 9,000              |
| TOTALS, CONC. WHOLE-MILK PRODUCTS..... | 63,668,855             | 64,608,304             | 67,918,000             | 4,867,269 | 4,331,573 | 4,531,000          |
| CONCENTRATED MILK BY-PDTS.—            |                        |                        |                        |           |           |                    |
| Condensed skim milk.....               | 5,098,096              | 4,101,870              | 4,752,000              | 226,041   | 196,402   | 228,000            |
| Evaporated skim milk.....              | —                      | —                      | 52,000                 | —         | —         | 3,000              |
| Powdered skim milk.....                | 11,485,238             | 13,307,471             | 16,576,000             | 772,630   | 848,766   | 1,057,000          |
| Condensed buttermilk.....              | 339,738                | 1,227,663              | 286,000                | 9,057     | 25,572    | 6,000              |
| Powdered buttermilk.....               | 957,388                | 1,229,459              | 2,419,000              | 47,996    | 58,943    | 116,000            |
| Casein.....                            | 387,230                | 737,816                | 1,513,000              | 24,313    | 71,494    | 147,000            |
| Sugar of milk.....                     | 95,485                 | 68,973                 | 152,000                | 5,641     | 4,138     | 9,000              |
| TOTALS, CONC. MILK BY-PRODUCTS.....    | 18,343,175             | 20,673,252             | 25,750,000             | 1,085,678 | 1,205,315 | 1,566,000          |
| ICE CREAM.....                         | 4,556,477 <sup>2</sup> | 4,066,209 <sup>2</sup> | 4,444,000 <sup>2</sup> | 5,939,290 | 5,160,497 | 5,723,000          |
| SUNDRIES.....                          | —                      | —                      | —                      | 1,029,595 | 871,946   | 725,621            |

<sup>1</sup>Provisional estimate. <sup>2</sup>Gallons.

**Total Value of Dairy Production.**—The value of all dairy products in 1934 is estimated at \$181,966,021 as compared with \$170,828,667 in 1933, an increase of 6.5 p.c. The value of the dairy production of Canada in 1934 was the highest since 1931 and shows an advance of \$22,891,888 or 14.4 p.c. over the low value recorded in 1932. All products increased in value except factory cheese. The prices of creamery butter during the first quarter of 1934 were higher than in the same period of the preceding year. The midsummer decline was about the same as usual, but as the season advanced butter prices closely paralleled those of the previous year. The value per lb. of creamery butter, as shown in Table 3, represents an average of 19.9 cents in 1934 and 19.8 cents in 1933. Total butter shows a value of \$63,933,300 in 1934, an increase of \$3,764,191 as compared with 1933, while total cheese was valued at \$9,932,921 in 1934, a decrease of \$1,289,084.

## 4.—Value of Dairy Production of Canada, 1925-34, and by Provinces, 1934.

| Province.                 | Dairy Butter. | Creamery Butter. | Home-made Cheese. | Factory Cheese. | Misc. Factory Products. | Milk Otherwise Used. | All Products. <sup>1</sup> |
|---------------------------|---------------|------------------|-------------------|-----------------|-------------------------|----------------------|----------------------------|
|                           | \$            | \$               | \$                | \$              | \$                      | \$                   | \$                         |
| Canada 1925.....          | 32,128,799    | 63,008,097       | 95,073            | 36,571,556      | 16,882,747              | 136,177,373          | 284,863,645                |
| 1926.....                 | 28,252,777    | 61,753,390       | 80,349            | 24,807,841      | 17,767,271              | 149,643,460          | 277,304,979                |
| 1927.....                 | 39,435,121    | 65,709,986       | 70,654            | 25,322,148      | 18,879,335              | 154,257,346          | 294,874,590                |
| 1928.....                 | 29,103,000    | 64,702,538       | 82,000            | 30,494,463      | 20,581,490              | 152,661,856          | 297,625,347                |
| 1929.....                 | 28,929,000    | 65,929,782       | 82,800            | 21,471,330      | 22,091,945              | 153,238,000          | 291,742,857                |
| 1930.....                 | 27,385,000    | 56,670,504       | 115,555           | 18,089,87       | 21,074,228              | 101,230,000          | 237,068,157                |
| 1931.....                 | 21,450,000    | 50,198,878       | 108,500           | 12,824,695      | 16,559,619              | 78,876,000           | 191,389,692                |
| 1932.....                 | 15,311,000    | 40,475,479       | 94,120            | 11,379,922      | 13,112,612              | 71,627,000           | 159,074,133                |
| 1933.....                 | 16,623,000    | 43,546,199       | 94,021            | 11,127,984      | 13,804,553              | 78,016,000           | 170,828,667                |
| 1934.....                 | 17,492,099    | 46,441,300       | 100,021           | 9,832,900       | 14,949,800              | 84,974,000           | 181,966,021                |
| Prince Edward Island..... | 332,000       | 518,300          | 21                | 34,700          | 44,200                  | 459,000              | 1,520,221                  |
| Nova Scotia.....          | 1,444,000     | 1,356,100        | 3,000             | —               | 799,600                 | 1,980,000            | 5,940,700                  |
| New Brunswick.....        | 1,342,000     | 693,800          | 1,000             | 38,500          | 160,000                 | 1,884,000            | 4,477,300                  |
| Quebec.....               | 2,658,000     | 13,075,600       | 25,000            | 2,118,000       | 1,565,200               | 24,003,000           | 45,322,800                 |
| Ontario.....              | 5,166,000     | 16,728,100       | 12,000            | 7,202,700       | 9,298,100               | 38,139,000           | 79,058,800                 |
| Manitoba.....             | 1,310,000     | 3,928,100        | 18,000            | 117,600         | 441,700                 | 2,998,000            | 9,851,400                  |
| Saskatchewan.....         | 2,003,000     | 3,966,900        | 16,000            | 86,200          | 409,100                 | 4,898,000            | 13,222,200                 |
| Alberta.....              | 1,876,000     | 4,734,900        | 22,000            | 141,500         | 441,500                 | 6,259,000            | 14,299,900                 |
| British Columbia.....     | 431,000       | 1,429,500        | 3,000             | 93,700          | 1,799,400               | 4,354,000            | 8,272,600                  |

<sup>1</sup>The data in this column include the value of skim milk and buttermilk. For all Canada this was \$8,176,000 in 1934 as compared with \$7,617,000 in 1933, \$7,074,000 in 1932, \$11,381,000 in 1931, and \$12,503,000 in 1930.



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